

ABSOLUTE AV

NAVIGATOR

We take "Absolute AV" literally. And focus on the essentials. We develop our innovative technologies while striving for technical perfection.

WE CREATE TECHNO

TECHNOLOGY FOR THE CONNECTED WORLD

A wave of digitisation is sweeping our world and increasingly shaping and altering how we act and live, our homes and workplaces, businesses, public facilities and spaces – even entire cities. Digital technologies are now omnipresent. Everything is communicating with everything else: people with devices, devices with other devices, buildings with people, and buildings with other buildings. It's up to us to shape our digital future so it will yield the greatest benefits.

At Lindy we're convinced that, if we have the right ideas and persevere, we can protect the environment while enjoying safer, more rewarding lives. The basis for doing so, and the intelligence behind it, can be summed up in one word: connectivity. This is the prerequisite for all communication. And we are working to forge connections and make the whole universe of content available anywhere and in any setting.

85 Years of Progress

For more than eight decades, connectivity has been the core of and driving force behind our activities. We provide state-of-the-art technologies and products that bring people and media together. And we accomplish this by connecting, sharing and converting analogue and digital signals while constantly extending the limits of transmission. Through it all, we think holistically and make sure that all components smoothly integrate. We develop intelligent, combined connectivity solutions to progressively merge our IT and AV worlds.

Old ways won't open new doors

Digital technologies are irreversibly transforming the world's markets. They are also giving us new perspectives and enabling us to support our customers even more effectively and systematically. And that really energises us at Lindy. Our expertise and large product portfolio give us maximum flexibility for delivering solutions. No matter what our business partners and customers require, we leverage our combined connectivity solutions to boost their competitiveness.



Head of European Sales
Elia LUPI

NEW DIGITAL
TECHNOLOGIES
ARE CHANGING
HOW OUR SOCIETY
COMMUNICATES.
OUR VISION IS
TO IDENTIFY
PEOPLE'S NEEDS
AND PROVIDE THE
RIGHT ENVIRONMENT
FOR MEETING THEM.

We create technology for the connected world.
Enjoy discovering the Lindy solutions.

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SCENARIOS

Lindy stands for top quality and extraordinary diversity. We develop solutions for a vast range of application designs and requirements. Four connectivity scenarios in different installation settings, including corporate, governmental, medical and other demanding environments, illustrate the exceptional breadth of our portfolio: control room visualisation, presentation and information, collaboration and connected home & office solutions.

- 01 CONTROL ROOM SOLUTIONS**
Transport & Mobility – Energy, Water & Public Utility –
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- 02 PRESENTATION & INFORMATION SOLUTIONS**
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Digital Signage & Digital Out of Home – Information (airport,
railway station etc.) – Retail – Hospitality (Hotels, Events,
Large Venues etc.) – Healthcare & Medical Applications PAGE 12

- 03 COLLABORATIVE SOLUTIONS**
Conference Rooms / Presentation Technology –
Education – KVM Switching & Extension – Broadcasting –
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- 04 CONNECTED HOME & OFFICE SOLUTIONS**
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& shared workspaces with simple connection needs) –
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01



02



03



04



CONTROL ROOM SOLUTIONS

BIG IDEAS FOR EVEN BIGGER DATA.

Large companies, public services such as radio and television broadcasters, data centres and utilities, law enforcement and transport authorities all need solutions for monitoring and administering their networks. Server environments are currently growing by leaps and bounds. And this trend is set to accelerate in future. More and more computers need to be accommodated and efficiently managed in less and less space.

Exploding data volumes, multiple IP and analogue video streams, and countless content and signal sources around the globe call for efficient control using a mouse, keyboard and one or more displays. Particularly in server environments, there is a need for future-proof, modular control solutions that can be easily scaled up as required.

At Lindy, we draw on our large product portfolio to ensure connectivity in customers' control rooms. They are able to visualise and analyse large data volumes 24/7 and make decisions in real time. In addition, our solutions support and comply with the proliferating standards and specifications for designing next generation control rooms. We turn big ideas into even bigger solutions – for an already huge and still growing market.

AREAS OF APPLICATION

- ▶ **Transport & Mobility** PAGE 115
- ▶ **Energy, Water & Public Utility**
- ▶ **Security & Defence** PAGE 27
- ▶ **Telecommunications & Data Processing**
- ▶ **Industry & Process Control** PAGE 97, 114
- ▶ **Computer & Data Centre** PAGE 117

PRESENTATION & INFORMATION SOLUTIONS

SUSTAINABLE SOLUTIONS AND EFFICIENT TECHNOLOGY.

Digital signage applications are used to quickly and securely convey and attractively visualise content. Both information and presentation solutions fall into this category. The retail sector is fast becoming one of the most important vertical markets for applications of this kind. They help create multimedia presentations that powerfully and attractively communicate advertising messages. Crucial here is that prospective customers are targeted on-site, so there is a close connection between purchasing decisions and the shopping experience. Digital signage applications therefore play a key role and have potential for significantly boosting sales. Our combined solutions make it possible to simultaneously and cost-effectively play brand and advertising messages on one or several displays in multiple environments.

At Lindy we set standards with the exceptional quality, connectivity, reliability and uptime of our products. They enable organisations to achieve major time and cost savings in connection with running and maintaining applications. We also offer complete end-to-end solutions. These allow customers to transmit high resolution content over large distances, and present it on individual or multiple displays or custom-tailored video walls. As a result, digital signage applications are now pioneering a new frontier in advertising and brand marketing.

Presentation and information solutions from Lindy are specifically designed for use in public spaces and meet all of the relevant requirements. Customers especially benefit in the realms of corporate communication (lobbies and showrooms), digital signage and out-of-home advertising (at airports, railway stations etc.), retailing, hospitality (hotels, events, multipurpose rooms etc.), medical & healthcare, education and so on.

AREAS OF APPLICATION

▶ Corporate World (Foyers & Show Rooms)	PAGE 171
▶ Digital Signage & Digital Out of Home	PAGE 89, 99
▶ Information (Airport, Railway Station etc.)	PAGE 107
▶ Retail	PAGE 23, 172
▶ Hospitality (Hotels, Events, Large Venues etc.)	PAGE 26, 178
▶ Healthcare & Medical Applications	PAGE 95, 97







COLLABORATIVE SOLUTIONS

TODAY'S CONCEPTS FOR A FASTER PACE TOMORROW.

The managers of enterprises and public institutions are increasingly recognising the value of using their own buildings to present their brands. It's a fact that first impressions count the most, and that includes what visitors experience when entering a building. Conference equipment also crucially influences perception. Professional, state-of-the-art AV and digital signage installations are an excellent way to present customised and dynamic content that is as unique as the organisation itself. At the end of the day, which solutions are deployed depends on the space situation. The crucial factors are the numbers of output devices and data sources requiring integration, as well as the wish or need to use high resolution data.

Intelligent conference room equipment from Lindy makes it possible to transmit even exceedingly complex content from one or more sources. In demand are integrated, flexibly configurable solutions that make it easy to impressively visualise even large data volumes. Our solutions can be flexibly combined and are therefore highly versatile for use by system integrators and distributors. Most importantly, they deliver outstanding results very efficiently. This makes our premium solutions the benchmark for any installation.

Collaborative solutions from Lindy meet all of the connectivity requirements for simple, effective audio-visual cooperation. They benefit firms across all industries in connection with conference rooms, presentation technology, KVM switching and extension, broadcasting, unified communication and the Internet of Things.

AREAS OF APPLICATION

- ▶ **Conference Rooms / Presentation** PAGE 73, 79, 108
- ▶ **Education** PAGE 42, 45, 86, 116
- ▶ **KVM Switching & Extension**
- ▶ **Broadcasting** PAGE 54
- ▶ **Unified Communication**
- ▶ **Internet of Things**

CONNECTED HOME & OFFICE SOLUTIONS

ADVANCED SOLUTIONS FOR RELIABLE CONNECTIONS.

Today we're experiencing a shift towards more intelligent, efficient and purposeful work. Thanks to advanced technologies, it's now possible to use office space more effectively, creating the basis for remote and mobile work. And this trend is gaining momentum. Likewise, as the market share of desktop PCs dwindles, that of notebooks, netbooks, ultrabooks and tablet computers is soaring. The crucial thing, however, is a system's connectivity, which is accomplished with cables and other accessories. These are what make it possible for data to be processed, scanned, copied, saved, printed and sent to displays or overhead projectors.

The workplace of the future places new demands on enterprises and homes. But armed with solutions from Lindy, customers can design optimal workplaces for their staff. We do more than provide the equipment needed to ensure that all data can always be retrieved, whether a user is traveling, putting in hours at the firm or working in a home office. Our leading-edge, high performance connectivity technologies let us make work environments more ergonomic, so that employees will be happier and do their jobs more efficiently.

Home & office solutions from Lindy ensure the required connectivity in any work environment. They meet all of the prerequisites for equipping today's workplaces. This applies especially to desktop and mobile connectivity, including smartphones.

AREAS OF APPLICATION

- ▶ **Residential** (Home Theatre & Audio & Video Systems) ... PAGE 47
- ▶ **Small-Office/Home-Office solutions**
 (modern, flexible & shared workspaces
 with simple connection needs) PAGE 57, 58, 76
- ▶ **Security & Comfort**
- ▶ **Structured Wiring & Networks**



COMBINED CONNECTIVITY SOLUTIONS

Each Lindy product features special functionality and has been developed for a particular use. Thanks to our broad portfolio, backed by our considerable knowledge and experience, we have the right solution for every need – in any field and for any application.

Many of our products bring together multiple basic IT and AV functions in a single unit. This makes them valuable components of larger systems that perform a variety of functions. And these in turn can be combined with other products to create highly efficient solutions. Matrix switching solutions, for example, are modular units for flexibly rerouting, distributing and converting AV signals. In tandem with our IP-based extender systems, signals can be distributed throughout an enterprise or even worldwide.

This opens up entirely new prospects for our customers and business partners across a multitude of sectors including retail, manufacturing, education and administration, not to mention our distributors, end-to-end system suppliers and resellers. Thanks to our enormous portfolio, proven competence and bespoke customer services, we can provide the right solution for any environment – regardless of the connection type and application.

We help our customers improve the reliability of their connections and the efficiency of their applications and components. To accomplish this, we draw on a vast range of standard products and solutions to devise made-to-measure, customer-specific solutions.

FOUR TECHNOLOGIES – ONE SOLUTION



SHARING

We've mastered the art of switching and splitting signals for all analogue and digital technologies with conventional VGA, HDMI or DisplayPort connections.



EXTENDING

We push back the limits of transmission with our repeater and extender technology. This lets us deliver signals via copper lines over several hundred metres, deploying fibre-optic cables across multiple kilometres and, with IP, even worldwide.



CONNECTING

We transmit signals with maximum resolution and bandwidth, all the way up to the specified maximum distances. And, thanks to our expertise and extra-long-distance cables, even beyond.



CONVERTING

We're able to convert signals between virtually any communication protocols to connect the worlds of AV and IT. We consistently use the latest technologies to optimally support our customers.





SHARING

We've mastered the art of splitting both analogue and digital signals, and are equally familiar with conventional VGA, HDMI and DisplayPort, to name just a few examples. We support switching for and between all legacy and leading-edge signal technologies. Our product range includes basic 1:2 and 2:1 devices as well as complex matrix switches.

SCENARIOS, PRODUCTS & TECHNICAL INFORMATION

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4K CONTROL CENTRE

18G HDMI 2.0 8x8 MATRIX SWITCH

This latest generation matrix makes it possible to route 4K source signals to eight HDMI 2.0 input ports and switch them through to displays connected to eight HDMI 2.0 output ports. This can be done using buttons on the front panel, with an IR remote, over a network or RS232 using the provided software, or even with Telnet commands for automated switching. It's the ideal matrix for 4K content, for example in the control booth of an AV studio or for medical imaging applications that call for high resolution and accurate depiction of details. Additionally, the device may be used in conjunction with 4K capable fibre optic extenders and video wall controllers for remotely managing video content in sports arenas or public screenings.

8X8 HDMI 2.0 18G MATRIX SWITCH
No. 38160



FOR PRESENTING OR INFORMING HIGH PERFORMANCE MATRIX SWITCH

As content becomes available in ever higher resolutions, it places heavier demands on AV connectivity. Cables, transmission lines and the processors of switching units all have to meet enormous bandwidth requirements. This HDMI 8x8 matrix switch delivers across the board: at 18Gbit per second, it effortlessly handles resolutions up to 4096x2160p at 60Hz with a 4:4:4 colour space and 8bit colour depth, and the same statement applies to HDCP 2.2 protected content. The matrix also supports the Dolby True HD and DTS-HD Master Audio surround sound formats. Sophisticated EDID management allows the use of preset EDID configurations or EDID pass-through. In addition to this, four different sets of EDID routing settings can be saved and easily retrieved later without having to reconfigure anything.



MODULAR CONTROL CENTRE

32x32 MODULAR MATRIX SWITCH

The AV interfaces of most content servers can be a mixture of HDMI, DVI, HDBaseT and VGA interfaces. These need to be combined, switched, split and possibly converted in order to output them to displays with modern AV ports. The modular matrix switch accomplishes all this and much more. Featuring 32 input ports and 32 output ports organised in four AV interface boards with eight ports each, the matrix can be easily and flexibly tailored to meet the interface requirements of the local server and display environment. For virtually any application scenario – in industrial or process control rooms, in data centres, for information systems (for example at airports and railway stations), in digital signage or in “digital out of home” applications (such as sports stadiums or public screenings), its modular design makes it a genuine all-rounder.

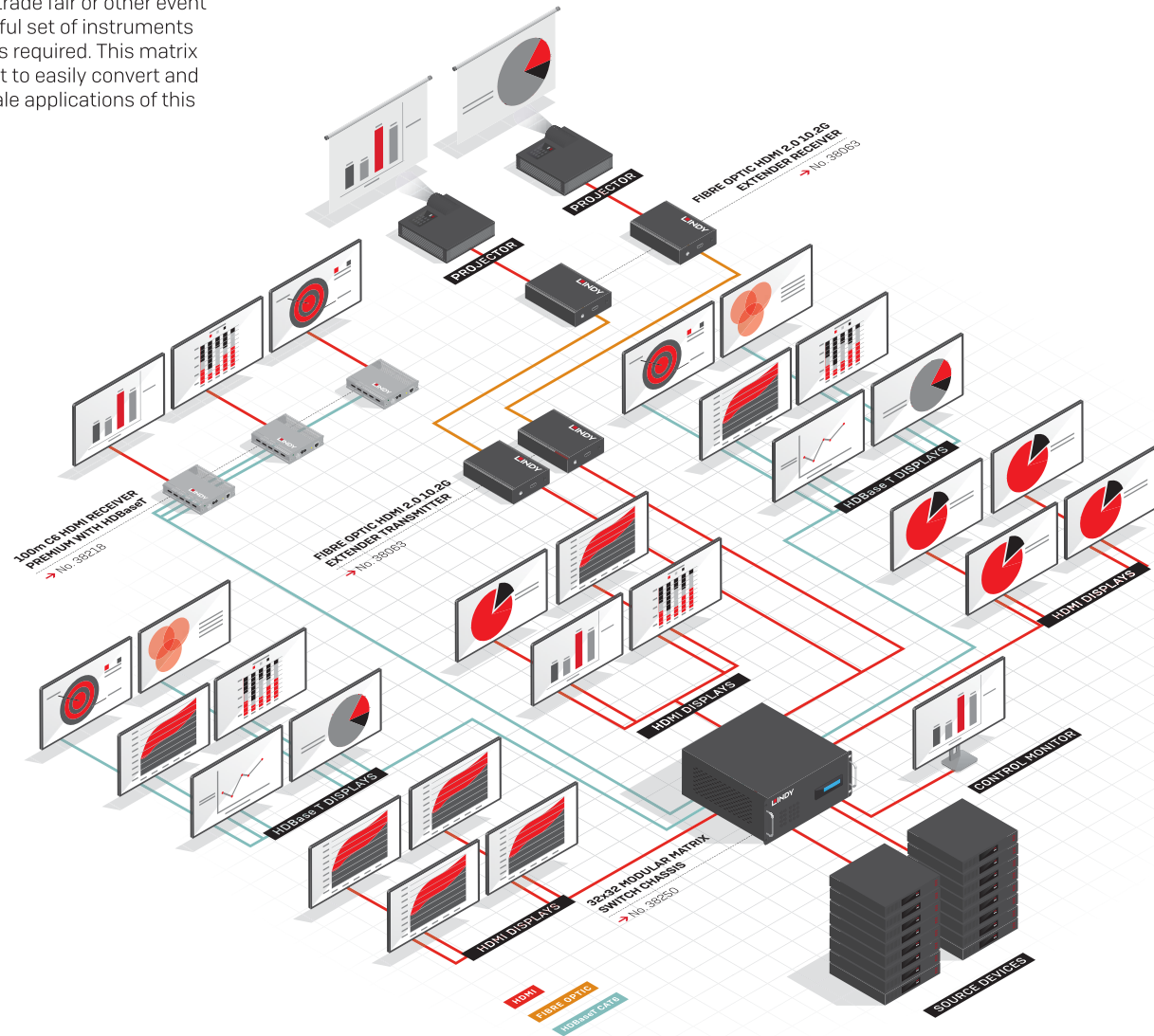
MODULAR MATRIX SWITCH
No. 38250

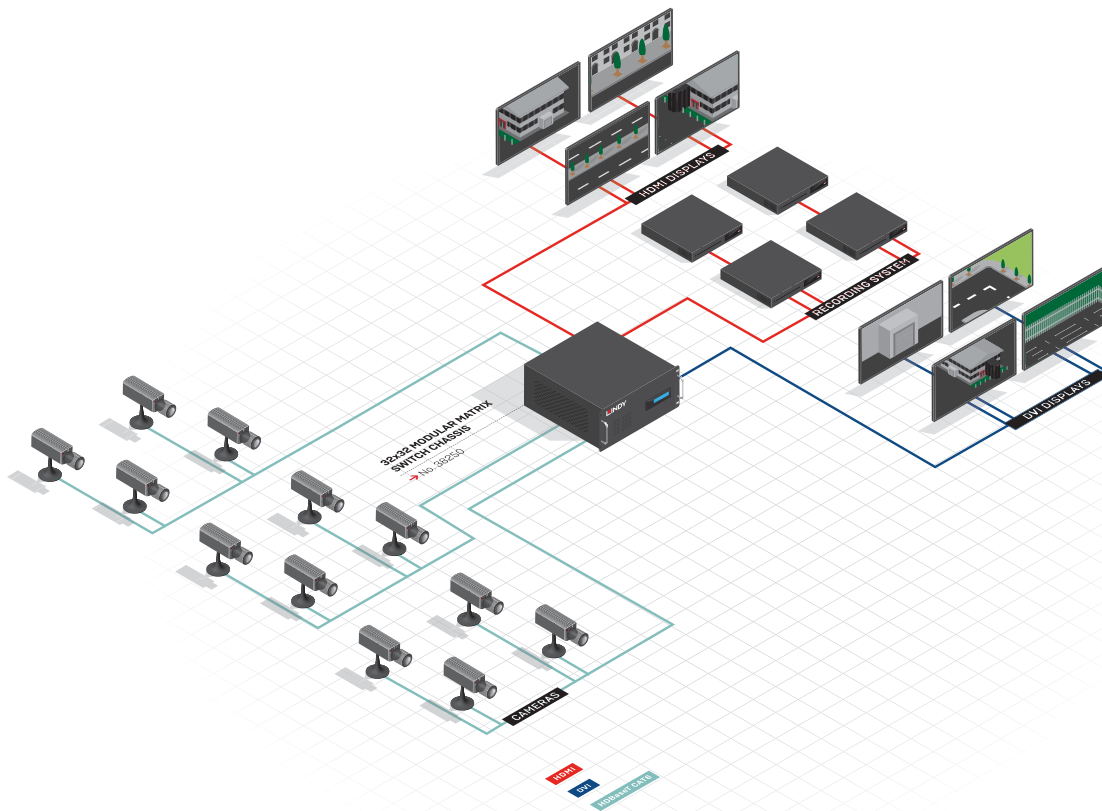




PRESENTING AND INFORMING – AV MANAGEMENT FOR EVENTS AND TRADE FAIRS

When it's necessary to support a trade fair or other event with multimedia content, a powerful set of instruments for delivering content to displays is required. This matrix switch's modular design enables it to easily convert and manage 4K AV signals in large scale applications of this kind.





CONTROL ROOMS – SECURITY & DEFENCE

Anyone who uses high resolution HDBaseT cameras to protect property requires a first-rate central AV switching unit for keeping signals from distributed surveillance in plain view while simultaneously routing them to recording systems. This modular matrix, featuring four HDBaseT input boards with eight HDBaseT ports each, perfectly meets the requirements for 4K signal management in scenarios of this kind.

▼ SPLITTER, CONVERTER, EXTENDER AND MATRIX SWITCH IN ONE I/O BOARDS WITH FOUR DIFFERENT INTERFACES

Four different input boards (for HDMI, DVI, HDBaseT and VGA) and three output boards (covering HDMI, DVI and HDBaseT) are included. This makes it easy to convert signals between a long list of signal formats, route them to modern displays of virtually any type and, thanks to HDBaseT I/O boards, even transmit them over long distances from source to matrix and from there to one or more displays. Switchable and configurable using the buttons on the front panel, using a remote, via Telnet or with a web interface, the matrix offers a variety of control methods. As it supports bandwidths up to 10.2Gbps, it effortlessly handles resolutions of 4096x2160p at 60Hz with a 4:2:0 colour space and 8bit colour depth plus HDCP 1.4 support. An integrated double mains adapter with built-in redundancy makes the system fail-safe.



DISTRIBUTE EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR MATRIX RANGE



4X2 HDMI 1.4 10.2G MATRIX SWITCH

This matrix routes HDMI 1.4 compliant signals from up to four sources to two independent target devices. Compatibility with all modern source and target devices is ensured by an automatic EDID mode and pre-stored EDID settings for the most common audio and video configurations. Ideal for use in conference rooms, home cinemas or digital signage applications. The matrix's compact design makes it suitable for installation where there is only limited space.

No. 38049



4X4 HDMI 1.4 10.2G MATRIX SWITCH

This HDMI compliant matrix permits flexible assignment of four UHD input ports to four independent UHD output ports with resolutions up to 4096x2160p at 30Hz. It also ensures fast, flexible and, above all, easy distribution and uninterrupted switching of all connected source and target devices. The controls are on the front panel along with LEDs that indicate the active ports. Supporting 4K UHD resolutions and all popular audio formats, this matrix is ideal for use in smaller AV installations.

No. 38152



4X4 HDMI 2.0 18G MATRIX SWITCH

This reliable, professional HDMI 2.0 compliant matrix makes it possible to display 4K UHD video content in full 18G bandwidth, including audio, from up to four HDMI sources across four HDMI screens. The matrix can be flexibly controlled via the front panel, an IR remote, an RS232 port or IP. An integrated EDID management system is able to learn and pass on a display's EDID for faster switching and failsafe transmission. The robust, rack-compatible metal housing makes it the ideal solution for professional small-scale AV applications and home installations.

No. 38245



6X2 HDMI 2.0 10.2G MATRIX SWITCH WITH PIP

This matrix with Picture in Picture (PiP) mode flexibly routes 4K UHD signals from up to six HDMI compliant sources to one or two independent HDMI target devices. To facilitate switching and monitoring of all source signals, the PiP mode includes the ability to combine all images on the same screen. This provides a visual overview of connected sources for easy switching. The switch has both analogue and digital audio outputs for connection to an amplifier in order to pass on an extracted audio signal from one of the connected sources or a connected screen via ARC. This device is an all-in-one solution for surveillance rooms or environments in which high-fidelity sound reproduction is essential.

No. 38148



6x2 HDMI 2.0 18G MATRIX SWITCH

This 4K matrix simultaneously routes HDMI 2.0 compliant signals from any of six input ports to either or both output ports. Three control options – front panel, RS232 and IP – ensure flexible operation. In addition, an IR remote control with integrated IR matrix function allows automatic detection of active input ports so that only they receive control signals. The matrix supports 7.1 channels of LPCM digital audio at resolutions up to 4K UHD including 3D (1080p) and DTS-HD Master Audio and Dolby TrueHD. Ideal for high resolution video switching and applications that require precise, controlled routing of 4K digital signals.

No. 38162



8x8 HDMI 1.4 10.2G MATRIX SWITCH

This professional matrix features eight HDMI input ports and eight HDMI outputs that support 4K UHD resolutions. It can be effortlessly deployed for simultaneously splitting, routing or cross-switching up to eight HDMI 1.4 compliant source signals to as many as eight independent screens. It includes preconfigured EDID settings and the ability to save the EDID of any connected display device. The matrix can be controlled via the front panel, an IR remote, an RS232 port or IP. Ideal for feeding a wide range of content from multiple source devices to screens at various locations.

No. 38153

THE MOST COMPREHENSIVE PORTFOLIO: THE MATRIX RANGE

Choose from our comprehensive product portfolio for distributing AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	4x2 HDMI 1.4 10.2G MATRIX SWITCH	4x4 HDMI 1.4 10.2G MATRIX SWITCH	6x2 HDMI 2.0 10.2G MATRIX SWITCH WITH PIP	8x8 HDMI 1.4 10.2G MATRIX SWITCH
AV Interface	HDMI	HDMI	HDMI	HDMI
Interface Standard	HDMI 1.4	HDMI 1.4	HDMI 2.0	HDMI 1.4
Supported Bandwidth	10.2Gbps	10.2Gbps	10.2Gbps	10.2Gbps
Maximum Resolution	4096x2160@30Hz 4:4:4 8bit	4096x2160@30Hz 4:4:4 8bit	4096x2160@60Hz 4:2:0 8bit	4096x2160@30Hz 4:4:4 8bit
EDID Pass Through	-	-	-	-
HDCP Support	1.4	1.4	2.2	1.4
Supported Audio	Audio Pass-Through	Audio Pass-Through	Audio Pass-Through / LPCM Audio Extraction	Audio Pass-Through
IR Support	30-60kHz	30-60kHz	30-60kHz	30-60kHz
CEC Support	-	-	Pass-Through (Port 1)	-
Serial Interface	-	RS232	-	RS232
LED / LCD Display	-	-	-	LCD
Control	-	IR, RS232	IR	IR, RS232, Telnet
Special Features	EDID Management	EDID Management	EDID Management / ARC Audio Extraction / Picture in Picture / MHL	EDID Management
CONNECTORS				
Input	4 x HDMI (Female)	4 x HDMI (Female)	6 x HDMI (Female)	8 x HDMI (Female)
Output	2 x HDMI (Female)	4 x HDMI (Female)	2 x HDMI (Female) / 3.5mm (Female) / TOSLINK Audio (Female)	8 x HDMI (Female)
Control	-	RS232 (Female) / 3.5mm (Female)	-	RS232 (Female) / RJ45 (Female)
Power	5.5/2.1mm DC socket	5.5/2.1mm DC socket	5.5/2.1mm DC socket	5.5/2.1mm DC socket
PHYSICAL PROPERTIES				
Dimensions (approx.) WxDxH	192x85x26mm (7.56x3.35x1.02in)	267x120x32mm (10.51x4.72x1.26in)	260x120x30mm (10.24x4.72x1.18in)	440x200x50mm (17.32x7.87x1.97in)
Housing Material	Metal	Metal	Metal	Metal
Net Weight	0.45kg (0.99lb)	0.84kg (1.85lb)	0.87kg (1.92lb)	2.5kg (5.51lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)
Humidity	20 - 90% (non-condensing)	20 - 90% (non-condensing)	20 - 90% (non-condensing)	20 - 90% (non-condensing)
Power Requirements	5VDC 1A	12VDC 2.5A	5VDC 2A	12VDC 2.5A
	No. 38049	No. 38152	No. 38148	No. 38153



**4x4 HDMI 2.0 18G
MATRIX SWITCH**

HDMI
HDMI 2.0
18Gbps
4096x2160@60Hz 4:4:4 8bit
-
2.2
Audio Pass-Through
30-50kHz
-
RS232
-
IR, RS232
EDID Management

**6x2 HDMI 2.0 18G
MATRIX SWITCH**

HDMI
HDMI 2.0
18Gbps
4096x2160@60Hz 4:4:4 8bit
-
2.2
Audio Pass-Through
30-50kHz
-
RS232
LCD
IR, RS232, Telnet
EDID Management, Individual IR extension port

**8x8 HDMI 2.0 18G
MATRIX SWITCH**

HDMI
HDMI 2.0
18Gbps
4096x2160@60Hz 4:4:4 8bit
-
2.2
Audio Pass-Through
38kHz
-
RS232
LED
IR, RS232, Telnet, App
EDID Management

**32x32 MODULAR MATRIX SWITCH
CHASSIS**

-
-
10.2Gbps
4096x2160@60Hz 4:2:0 8bit
Pass-Through, Preset
1.4
Audio Pass-Through
30 - 50kHz
-
RS232
-
-
-

4 x HDMI (Female) / USB Type Mini-B (Female)
4 x HDMI (Female)
RS232 (Female) / RJ45 (Female) / 3.5mm (Female)
4 pin DIN

6 x HDMI (Female)
2 x HDMI (Female)
RS232 (Female), RJ45 (Female), 3.5mm (Female)
IEC C14

8 x HDMI (Female) / USB Type Mini-B (Female)
8 x HDMI Type A (Female)
RS232 (Female) / RJ45 (Female) / 3.5mm (Female)
4 pin DIN

4 x Input boards
4 x Output boards
RS232 / RJ45, 3 x 3.5mm IR
2 x IEC C14 [1 x redundant]

436x160x44mm [17.17x6.3x1.73in]
Metal
1.98kg [4.37lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
20 - 90% [non-condensing]
24VDC 6.25A

440x198x43mm [17.32x7.8x1.69in]
Metal
2.3kg [5.07lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
20 - 90% [non-condensing]
110 - 240 VAC

440x222x44mm [17.32x0.87x1.73in]
Metal
2.68kg [5.91lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
20 - 90% [non-condensing]
12VDC 7.5A

482x494x233mm [18.98x19.45x9.17in]
Metal
15kg [33.07lb]
0°C - 80°C [32°F - 176°F]
-20°C - 60°C [-4°F - 140°F]
20 - 90% RH [non-condensing]
110 - 240VAC

No. 38245

No. 38162

No. 38160

No. 38250



HDMI SHARING

HDMI 2.0 18G SPLITTER

These compact HDMI splitters simultaneously distribute an HDMI input signal with full 18G bandwidth from a source device to all of their output ports. This makes it possible to feed content with resolutions up to 4K at 60Hz to as many as eight connected displays at the same time. With support for HDMI 2.0 and HDCP 2.2 protected content, these splitters are future proofed to distribute bandwidth hungry content over the long term. To meet the needs of application scenarios of different sizes, versions with 2, 4 and 8 ports are available. Thanks to an integrated input signal amplifier, the signal sources can be up to 10 metres away from the splitter.

Optimally designed for professional plug & play use, e.g. in conference rooms, training facilities, advertising or presentations.

2, 4 & 8 PORT HDMI 2.0 18G SPLITTER
No. 38240, 38241 & 38242



◀ **RANGE OF SIZES**
2, 4 OR 8 PORTS

These splitters come in three different versions for a vast range of applications: from simply duplicating content all the way to projection and control rooms. They have been designed from the start to ensure straightforward handling and plug & play operation.

VERSATILITY ▶

EXTENSIVE EDID OPTIONS

Depending on what's required in a particular application, splitters can be used to send signals to identical or different displays. This naturally calls for the ability to make and adjust different EDID settings using DIP switches.



DISTRIBUTE EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR SPLITTER RANGE



2, 4 & 8 PORT HDMI 2.0 10.2G SPLITTER

These splitters distribute a single 4K HDMI input signal to two, four or eight HDMI displays with a bandwidth of 10.2G. EDID data from the connected target devices is automatically read and used to set the best resolution and frequency at each output port. Internal amplification of the output signals permits lossless transmission over cables up to 10 metres long without requiring any additional extenders. The splitters support HDMI 2.0 signals including 4K at 30Hz, HDCP 2.2, 3D (Full HD) and Deep Colour as well as digital audio. Plug & play permits quick and easy installation ready to go in professional environments without the need for any additional settings or adjustments.

No. 38220 – 2 Port HDMI 2.0 10.2G Splitter
No. 38221 – 4 Port HDMI 2.0 10.2G Splitter
No. 38222 – 8 Port HDMI 2.0 10.2G Splitter



2, 4 & 8 PORT DVI-D SINGLE LINK SPLITTER

These single input DVI splitters distribute a DVI-D signal to up to eight displays. They support DVI-D single-link uncompressed resolutions up to 1920x1200p and HD resolutions up to 1080p (1920x1080p) without any loss of quality whatsoever. Plug & play installation ensures fast, flexible and above all easy integration in to systems. Splitters can also be cascaded across up to three layers to feed the input signal to an even larger number of screens. An integrated signal amplifier permits transmission over cables up to 30 metres long. All three splitters – 1x2, 1x4 and 1x8 – are truly professional solutions for simultaneously sending identical content to multiple displays.

No. 32447 – 2 Port DVI-D Single Link Splitter
No. 32446 – 4 Port DVI-D Single Link Splitter
No. 38108 – 8 Port DVI-D Single Link Splitter



4 PORT TOSLINK OPTICAL AUDIO SPLITTER

This compact splitter instantly distributes an optical S/PDIF input signal to four optical outputs without any loss of quality. It supports uncompressed dual-channel LPCM (Linear Pulse Code Modulation) and compressed dual and multi-channel Dolby Digital and DTS audio signals. The splitter's compact design allows space-saving integration in professional environments for simultaneously supplying TOSLINK compatible target devices at several locations with the same audio signal, independently of the video signal.

No. 70403

THE MOST COMPREHENSIVE PORTFOLIO: THE SPLITTER RANGE

Choose from our comprehensive product portfolio for distributing AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS

AV Interface	HDMI
Interface Standard	HDMI 2.0
Supports Bandwidth	10.2Gbps
Maximum Resolution	3840x2160@60Hz 4:2:0 8bit
HDCP Support	2.2
Supported Audio	Audio Pass-Through
Separate Audio Ports	-
CEC Support	Pass-Through (Port 1)
Serial Interface	-
Special Features	EDID emulation

2, 4 & 8 PORT HDMI 2.0 10.2G SPLITTER

AV Interface	HDMI
Interface Standard	HDMI 2.0
Supports Bandwidth	10.2Gbps
Maximum Resolution	3840x2160@60Hz 4:2:0 8bit
HDCP Support	2.2
Supported Audio	Audio Pass-Through
Separate Audio Ports	-
CEC Support	Pass-Through (Port 1)
Serial Interface	-
Special Features	EDID emulation

CONNECTORS

Input	1 x HDMI (Female)
Output	2 Port: 2 x HDMI (Female) / 4 Port: 4 x HDMI (Female) / 8 Port: 8 x HDMI (Female)
Control	2 Port: - / 4 Port: USB Type Mini-B (unused) / 8 Port: USB Type Mini-B (unused)
Power	5.5/2.1mm DC socket

Input	1 x HDMI (Female)
Output	2 Port: 2 x HDMI (Female) / 4 Port: 4 x HDMI (Female) / 8 Port: 8 x HDMI (Female)
Control	3.5mm (unused), RS232 (unused)
Power	5.5/2.1mm DC socket

PHYSICAL PROPERTIES

Dimensions (approx.) WxDxH	2 Port: 93x56x17mm [3.66x2.2 x0.67in] / 4 Port: 156x63x17mm [6.14 x2.48 x0.67in] / 8 Port: 235x84 x17mm [9.25x3.31 x0.67in]
Housing Material	Metal
Net Weight	2 Port: 0.096kg [0.21lb] / 4 Port: 0.174kg [0.38lb] / 8 Port: 0.324kg [0.71lb]
Operating Temperature	0°C - 40°C [32°F - 104°F]
Storage Temperature	-20°C - 60°C [-4°F - 140°F]
Humidity	20 - 90% RH (non-condensing)
Power Requirements	5VDC 1A

Dimensions (approx.) WxDxH	2 Port: 155x60x28mm [6.1x2.36x1.10in] / 4 Port: 211x75x28mm [8.31x2.95x1.1in] / 8 Port: 310x90x25mm [12.2x3.54x0.98in]
Housing Material	Metal
Net Weight	2 Port: 0.32kg [0.71lb] / 4 Port: 0.51kg [1.12lb] / 8 Port: 0.78kg [1.72lb]
Operating Temperature	-15°C - 50°C [5°F - 122°F]
Storage Temperature	0°C - 50°C [32°F - 122°F]
Humidity	20 - 90% RH (non-condensing)
Power Requirements	5VDC 2A

No. 38220 – 2 Port HDMI 2.0 10.2G Splitter
 No. 38221 – 4 Port HDMI 2.0 10.2G Splitter
 No. 38222 – 8 Port HDMI 2.0 10.2G Splitter

2, 4 & 8 PORT HDMI 2.0 18G SPLITTER

AV Interface	HDMI
Interface Standard	HDMI 2.0
Supports Bandwidth	18Gbps
Maximum Resolution	3840x2160@60Hz 4:4:4 8bit
HDCP Support	2.2
Supported Audio	Audio Pass-Through
Separate Audio Ports	-
CEC Support	Pass-Through (Port 1)
Serial Interface	RS232
Special Features	EDID emulation

Input	1 x HDMI (Female)
Output	2 Port: 2 x HDMI (Female) / 4 Port: 4 x HDMI (Female) / 8 Port: 8 x HDMI (Female)
Control	3.5mm (unused), RS232 (unused)
Power	5.5/2.1mm DC socket

Dimensions (approx.) WxDxH	2 Port: 155x60x28mm [6.1x2.36x1.10in] / 4 Port: 211x75x28mm [8.31x2.95x1.1in] / 8 Port: 310x90x25mm [12.2x3.54x0.98in]
Housing Material	Metal
Net Weight	2 Port: 0.32kg [0.71lb] / 4 Port: 0.51kg [1.12lb] / 8 Port: 0.78kg [1.72lb]
Operating Temperature	-15°C - 50°C [5°F - 122°F]
Storage Temperature	0°C - 50°C [32°F - 122°F]
Humidity	20 - 90% RH (non-condensing)
Power Requirements	5VDC 2A

No. 38240 – 2 Port HDMI 2.0 18G Splitter
 No. 38241 – 4 Port HDMI 2.0 18G Splitter
 No. 38242 – 8 Port HDMI 2.0 18G Splitter



2, 4 & 8 PORT DVI-D SINGLE LINK SPLITTER

DVI-D
DVI-D 1.0 (Single Link)
4.95Gbps
1920x1200@60Hz
-
-
-
-
-
-
-

1 x DVI-I (Female)
2 Port: 2 x DVI-I (Female) / 4 Port: 4 x DVI-I (Female) / 8 Port: 8 x DVI-I (Female)
-
5.5/2.1mm DC socket

2 Port: 103x105x25mm [4.06x4.13x0.98in] / 4 Port: 142x105x40mm [5.59x4.13x1.57in] / 8 Port: 240x103x29mm [9.45x4.06x1.14in]
Metal
2 Port: 0.39kg [0.86lb] / 4 Port: 0.41kg [0.9lb] / 8 Port: 0.86kg [1.9lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
30 - 80% RH (non-condensing)
2 & 4 Port: 5VDC 2.6A / 8 Port: 5VDC 3A

No. 32447 – 2 Port DVI-D Single Link Splitter
No. 32446 – 4 Port DVI-D Single Link Splitter
No. 38108 – 8 Port DVI-D Single Link Splitter



4 PORT TOSLINK OPTICAL AUDIO SPLITTER

Fibre Optic (TOSLINK)
-
-
192kHz
-
S/PDIF, 2-Channel LPCM
Fibre Optic (TOSLINK)
-
-
-

1 x TOSLINK (Fibre Optic)
4 x TOSLINK (Fibre Optic)
-
5.5/2.1mm DC socket

85x85x34mm [3.35x3.35x1.34in]
Plastic
0.095kg [0.21lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
20 - 90% RH (non-condensing)
5VDC 1.2A

No. 70403

—
INTEGRATION
IS THE POWER
TO CONNECT WHAT
IS SEEMINGLY
SEPARATE.
—

Information and media are merging. With a consistent focus on new technologies, the global AV market is expanding at double-digit rates. Displays have become indispensable for use as advertising media or signs in heavily trafficked public areas at the point of sale. Especially in environments of this sort, these technologies are fast becoming the standard. Ideas, content and space are fusing to form an integrated whole. And flexible, dynamic distribution of content is key. In these contexts, it's essential to dependably and concurrently deliver up-to-date content and information at multiple locations 24/7. This is spawning increasingly complex approaches and more diverse technologies for distributing AV content from multiple sources across large distances to one or more target devices in large-scale installations.



6 PORT MULTI AV TO
HDMI 2.0 18G PROCESSOR SWITCH
No. 38156

4K GENIUS

18G MULTI AV PRESENTATION SWITCH

This multi AV switch sets new standards in the presentation of 4K content.

Six different input signals (4x HDMI 2.0, 1x DP 1.2 and 1x VGA) can be used individually in full-screen mode or freely combined in sets of four in a wide range of different layouts for proportional scaling and display on a screen divided into quarters. Six preset and six custom layouts can be quickly called up by pressing buttons on the front panel or using an IR remote. There are also special functions, such as for rotating content by 90° or 180°. This meets the prerequisites for creatively working with content from different sources, for instance in conference or training rooms. Two AV interfaces (HDMI and DP) are available at the output port for passing a chosen layout to a projector, 4K display or control monitor.

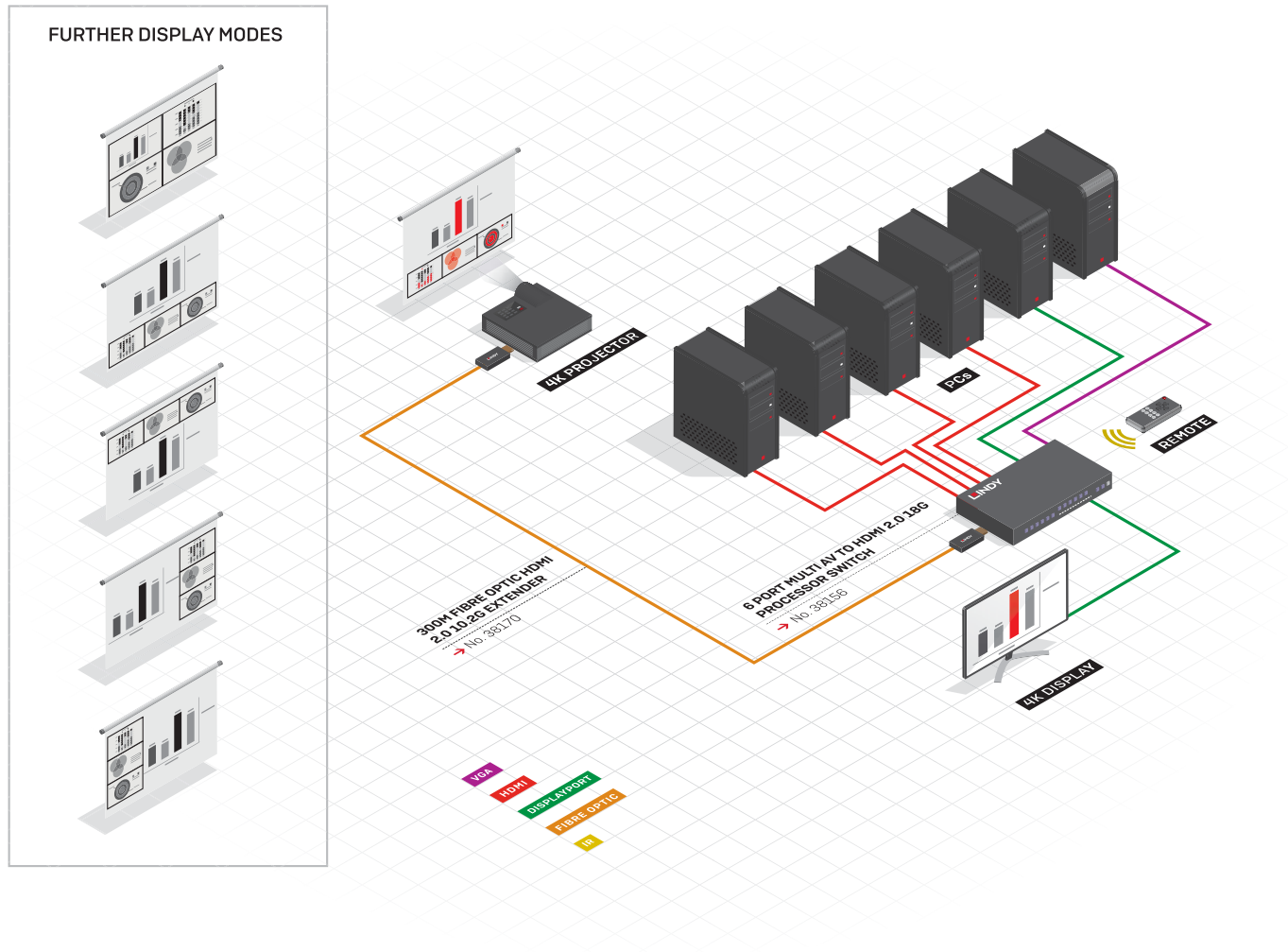
4K resolutions at 60Hz with a colour depth of 8 bits also belong to the switch's repertoire, as well as support for HDCP 2.2 to remove all barriers to protected content.



▼ FLEXIBLE CONNECTION

All six input ports (1 DP, 1 VGA and 4 HDMI) can be connected to AV sources with extremely high resolutions (up to 3840x2160p at 60Hz, with a 4:4:4 colour space and 8bit colour depth). Depending on the selected layout, each signal is then scaled to the resolution required for the layout position to which it has been assigned. The two output ports – one DisplayPort and one HDMI – can be flexibly used for the main and a separate monitoring display or vice versa as wished. The switch can therefore be used without problem for high-quality extenders for HDMI, DisplayPort and VGA to position the video processor at any desired distance from the source and displays.





COOPERATION SIX SOURCES – 4X CONTENT – ONE DISPLAY

Highly creative audio visual content greatly enhances the effectiveness of multimedia presentations, especially for sharing knowledge in conference or training rooms. Information must be presented in an impressive and memorable way for content to leave a lasting impact on the audience. Detail-rich images with resolutions up to 3840x2160p at 60Hz greatly reinforce this effect. Different video layouts, to which content from different sources can be quickly and flexibly assigned on the fly during a presentation, additionally enhance comprehension and transparency.



**LIVE CONTROL ▶
ACCESS BY REMOTE CONTROL**

To ensure fast access to AV content and layouts during a live performance, the most important switching functions can be conveniently and flexibly controlled on the fly using a remote. Creativity without limits!



**STREAM CONTROL ▲
ROUTING OF AUDIO DATA**

The audio signal fed to the analogue VGA audio jack is fed to the VGA connectors analogue audio port while being converted into one of the supported digital AV formats. It can then be routed to the display for further use. Alternatively, it can be decoupled by a terminal block and led to an external sound system. When showing multiple video images on the displays, the audio can also be taken from any content stream.



**▲ INTERFACE CONTROL
CONFIGURATION BY WEB OR TELNET**

All content can be configured and assigned to layout positions over a web interface. Or alternatively, e.g. for automation purposes, via RS232 and Telnet.

MULTI TALENTED 8 PORT PRESENTATION SWITCH

This product switches between eight AV inputs with different interfaces (3x HDMI, 3x VGA, 1x Component and 1x Composite), scales, converts and outputs the AV content to up to three ports (2x HDMI and 1x VGA) in parallel. It's ideal for presentations when drawing on very diverse source devices. It doesn't matter whether you want to integrate an older high quality source with a component connector, a CCTV device using a composite connector with laptops, PCs with VGA connectors or modern source devices such as Blu-Ray or DVD players via HDMI: this switch speaks all of their "languages" and mediates between their respective AV worlds. It deals effortlessly with resolutions up to 1920x1080p at 60Hz with a colour depth of 4:4:4 at 12 bits. The device has no issues with HDCP for transmitting protected content or embedding the audio of an analogue AV signal in the digital HDMI stream.

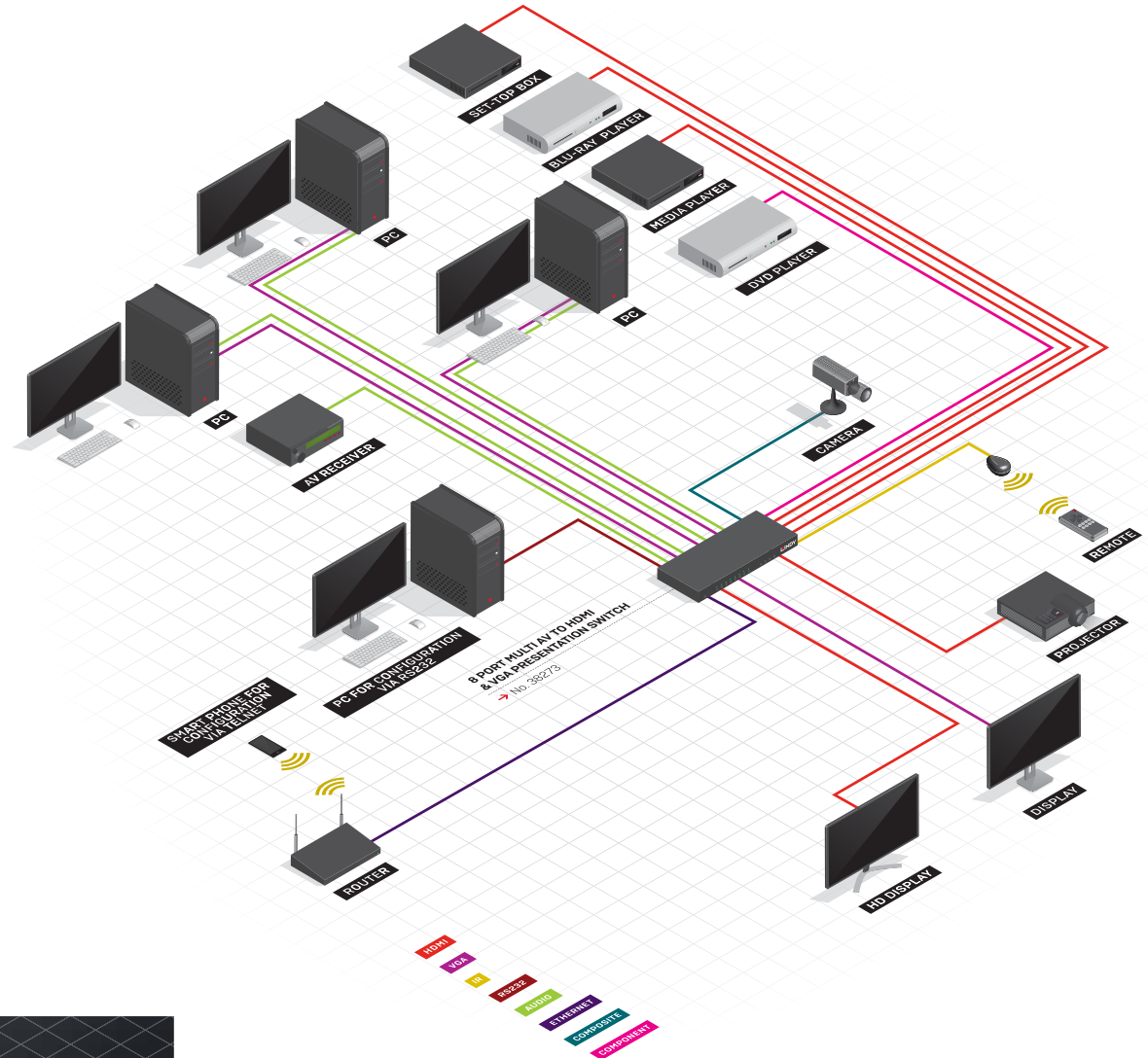
Perfect for unusual presentations, e.g. in retail or education.

8 PORT MULTI AV TO
HDMI & VGA PRESENTATION SWITCH
No. 38273



PRESENTING AND INFORMING – SWITCH, SCALER AND CONVERTER IN ONE

A stereo audio signal can be separately fed for each analogue video input signal, which can then be either separately extracted via TOSLINK as an analogue or digital signal or embedded in the digital AV stream and routed to a display via an HDMI port. The unit can be configured and operated using button the front panel buttons, with an IR remote, using the on-screen display (OSD) menu, by Web GUI via Ethernet, or RS232 and Telnet.





5 PORT HDMI 2.0 18G SWITCH
No. 38244

18G SWITCHING

5 PORT HDMI 2.0 SWITCH

HDMI 2.0 and AV data transmission at bandwidths as large as 18Gbps are now the standard for reliably getting 4K content from source devices to displays. Of course, this makes it all the more vital for every link of the transmission chain to be compatible with this enormous bandwidth so the display at the end won't encounter errors.

It's especially important to have a signal switch with powerful AV processing technology at the centre.

This five-port HDMI 2.0 switch routes AV signals from five HDMI sources with resolutions up to 4096x2160p at 60Hz and a colour space of 4:4:4 with eight-bit colour depth to an advanced 4K HDMI display. And to avoid

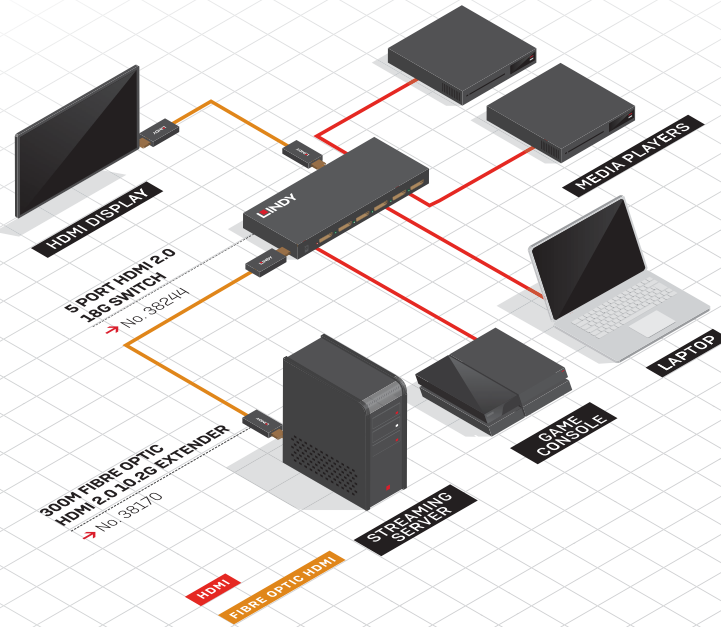
leaving protected content by the wayside, it also boasts HDCP 2.2 and 1.4 capabilities:

ideal for ultra modern home cinemas.

CONNECTED HOME AND OFFICE – FIVE SOURCES, ONE DISPLAY

Blu-ray players, game consoles, streaming servers, satellite receivers: today's source devices are now jostling to use the limited number of HDMI compatible input ports available on most 4K home displays. This HDMI 2.0 switch makes sure they get along. It can be conveniently controlled with a remote without getting up from the sofa.

Or, the buttons on the unit accomplish the same thing. RS232 with hexadecimal coding is another option: it's ideal for automatically switching amongst multiple sources, especially for professional presentations. In conjunction with 4K capable fibre-optic extenders, this also allows for very large installations.



DISTRIBUTE EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR SWITCH RANGE



3 & 5 PORT HDMI 2.0 18G SWITCH

These space-saving 4K HDMI switches allow routing of up to five input signals to a single display. They support resolutions up to 4K UHD (4096x2160p at 60Hz and 4:4:4), data rates up to 18Gbps, 3D (1080p), Deep Colour up to 12 bits and lossless audio formats up to 7.1 HD. HDR compatibility ensures that content can be displayed with a greater colour accuracy and improved contrast on any compatible HDMI device. Both switches can be controlled by a supplied remote. They are fully future-proof and live up to today's expectations in respect of Ultra-HD 4K signal transmission and user-orientated design.

No. 38243 – 3 Port HDMI 2.0 18G Switch
No. 38244 – 5 Port HDMI 2.0 18G Switch



4 PORT HDMI PROCESSOR SWITCH WITH PIP

Developed for applications that require the ability to connect four HDMI sources to a single compatible receiver, this switch includes PiP, multi-window and overlay modes to concurrently display multiple inputs and reduce the number of required displays, among other things. The contrast, brightness, saturation and colour hue of each signal can be independently varied to improve picture representation. Seamless independent switching of both audio and video channels as well as multiple control possibilities including IR, web browser, Telnet and RS232 make this switch ideal for a wide range of uses including conference and control rooms and digital signage.

No. 38130



3 PORT MULTI AV TO HDMI PRESENTATION SWITCH

This 4K Ultra-HD switch features three different input ports, one each for Display-Port, HDMI and VGA. It's great for quickly and easily connecting three source devices with different output formats to the same HDMI target device. The switch automatically converts their signals to digital HDMI while permitting convenient manual selection of one input using a remote or push buttons on the unit. There is also a function for automatically switching to the most recently connected or powered-up source. As the switch supports HDCP 2.2, it is compatible with the latest ultra-high-definition sources and displays. Ideal for conference and meeting rooms with a variety of equipment.

No. 38272



4 PORT MULTI AV TO HDMI PRESENTATION SWITCH

These presentation switches convert HDMI, DVI, DisplayPort and analogue VGA, composite video and stereo input signals to a digital HDMI output format for displays or projectors. The output video signals have resolutions up to 1920x1080p at 60Hz and support HDCP and 3D. These media hub solutions have been specifically developed for conference and meeting rooms in which it must be possible to easily and flexibly use both modern and legacy equipment. The different versions can be installed either flush (in-desk) or on-desk.

No. 38270 – 4 Port Multi AV to HDMI Presentation Switch
No. 38271 – 4 Port Multi AV to HDMI Conference Switch



4 WAY TOSLINK DIGITAL OPTICAL AUDIO SWITCH

This compact audio switch routes digital audio signals from four different sources to a shared target device without any loss of quality. It's extremely useful if, for example, an audio amplifier doesn't have enough digital audio inputs but there's a need to distribute signals from multiple sources. Smooth switching is ensured by an IR remote and push-button on the side of the unit. The switch also supports uncompressed two-channel LPCM and compressed two- and multi-channel Dolby and DTS audio signals. Great for avoiding the need to constantly reconnect cables in a wide variety of AV and audio installations.

No. 70416



HDMI 4 PORT MULTI-VIEW SWITCH

This powerful 4x1 HDMI video switch routes four different Full HD signals to a single display. Four viewing modes are supported: QuadView for simultaneously displaying all four sources on the same screen, PiP (Picture in Picture) for embedding images in the primary signal, Dual Video for showing two signals side by side, and a standard mode in which the selected source fills the entire screen. An excellent solution for improving response times in monitoring tasks by watching multiple video sources at the same time.

No. 38150

THE MOST COMPREHENSIVE PORTFOLIO: THE SWITCH RANGE

Choose from our comprehensive product portfolio for distributing AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	4 PORT HDMI PROCESSOR SWITCH WITH PIP	6 PORT MULTI AV TO HDMI 2.0 18G PROCESSOR SWITCH WITH PIP	3 & 5 PORT HDMI 2.0 18G SWITCH	4 PORT MULTI AV TO HDMI PRESENTATION SWITCH
AV Interface	HDMI	HDMI, DisplayPort	HDMI	HDMI
Interface Standard	HDMI 1.3c	HDMI 2.0, DisplayPort 1.2	HDMI 2.0	HDMI 1.3
Supports Bandwidth	6.75Gbps	18Gbps	18Gbps	4.95Gbps
Maximum Resolution	1920x1080@60Hz 4:4:4 12Bbit	3840x2160@60Hz 4:4:4 8bit	3840x2160@60Hz 4:4:4 8bit	1920x1080@60Hz 4:4:4 8bit
HDCP Support	1.1	2.2	2.2	1.1
Supported Audio	Audio Pass-Through	Audio Pass-Through, Stereo Audio	Audio Pass-Through	Audio Pass-Through, L/R Audio via Composite
Separate Audio Ports	HDMI	Terminal Block	HDMI	Stereo (3.5mm), CV & L/R Audio (3 x RCA)
IR Support	-	-	38kHz	-
CEC Support	-	-	Pass-Through	Pass-Through
Serial Interface	RS232	RS232	RS232	-
Special Features	PIP, Chromakey, Rotate Support	PIP, Multi-View, Scaling	-	EDID Bypass
CONNECTORS				
Input	4 x HDMI (Female), USB Type Mini-B (Female)	4 x HDMI (Female), DisplayPort (Female), VGA (Female), 3.5mm (Female)	3 Port: 3 x HDMI (Female), 3.5mm (Female) 5 Port: 5 x HDMI (Female), 3.5mm (Female)	HDMI (Female), Mini-DP (Female), VGA (Female), 3.5mm (Female), 3 x RCA (Female)
Output	HDMI (Female)	HDMI (Female), DisplayPort (Female), 3 Pin Terminal Block	HDMI (Female)	HDMI (Female), USB Type A (Female) Power Only
Control	RJ45 (IP), RS232	RS232, RJ45 (IP)	RS232 Port	RJ45
Power	5.5/2.1mm DC socket	5.5/2.1mm DC socket	5.5/2.1mm DC socket	5.5/2.5mm DC socket
PHYSICAL PROPERTIES				
Dimensions (approx.) WxDxH	436x247x44mm (17.17x9.72x1.73in)	440x230x45mm (17.32x9.05x1.77in)	3 Port: 154x61x25mm (6.06x2.4x0.98in) 5 Port: 211x75x25mm (8.31x2.95x0.98in)	140x90x50mm (5.51x3.54x1.97in)
Housing Material	Metal	Metal	Metal	Metal
Net Weight	3.01kg (6.64lb)	2.72kg (5.99lb)	3 Port: 0.275kg (0.61lb) 5 Port: 0.43kg (0.95lb)	0.65kg (1.43lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 45°C (32°F - 113°F)	0°C - 50°C (32°F - 122°F)	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-10°C - 50°C (14°F - 122°F)	-20°C - 60°C (-4°F - 140°F)
Humidity	20 - 90% RH (non-condensing)	20 - 90% RH (non-condensing)	5 - 85% RH (non-condensing)	10 - 85% RH (non-condensing)
Power Requirements	12VDC 3A	12VDC 2A	5VDC 1A	12VDC 2A
	No. 38130	No. 38156	No. 38243 – 3 Port Switch No. 38244 – 5 Port Switch	No. 38270



**4 PORT MULTI AV TO HDMI
CONFERENCE SWITCH**

HDMI
HDMI 1.3
4.95Gbps
1920x1080@60Hz 4:4:4 8bit
1.1
Audio Pass-Through, L/R Audio via Composite
Stereo (3.5mm), CV & L/R Audio (3 x RCA)
-
Pass-Through
-
EDID Bypass

**3 PORT MULTI AV TO HDMI
PRESENTATION SWITCH**

HDMI
HDMI 2.0
18Gbps
3840x2160@60Hz 4:4:4 8bit
2.2
Audio Pass-Through, Stereo Audio
3.5mm
-
-
-
-

**8 PORT MULTI AV TO HDMI & VGA
PRESENTATION SWITCH**

HDMI, VGA
HDMI 1.3a
6.75Gbps
1920x1080@60Hz 4:4:4 12bit
1.2
Audio Pass-Through, Stereo Audio
3.5mm Audio, RCA Audio
-
-
RS232
Digital/Analogue Conversion, Scaling

**4 WAY TOSLINK DIGITAL OPTICAL
AUDIO SWITCH**

TOSLINK
-
32 - 192kHz
-
-
S/PDIF, 2-Channel LPCM
-
-
-
-
-

**4 PORT HDMI
MULTI-VIEW SWITCH**

HDMI
HDMI 1.3a
4.95Gbps
1920x1080@60Hz 4:4:4 8bit
1.2
Audio Pass-Through
-
-
-
-
PIP, PaP, Independent audio switching

HDMI (Female), Mini-DP (Female),
VGA (Female), 3.5mm (Female),
3 x RCA (Female)

HDMI (Female), USB Type A (Female)
Power Only

RJ45

5.5/2.5mm DC socket

DisplayPort (Female), HDMI (Female),
VGA (Female), 3.5mm (Female)

HDMI (Female)

-

5.5/2.5mm DC socket

3 x HDMI (Female) + 3.5mm (Female), 3 x
VGA (Female) + 3.5mm (Female), Component
Video (Female) + 2 x RCA (Female), Composite
Video (Female) + 2 x RCA (Female)

2 x HDMI (Female), VGA (Female) + 3.5mm
(Female), Coaxial Digital Audio (Female)

RS232, RJ45 (IP)

5.5/2.1mm DC socket

4 x TOSLINK (Optical Fibre)

1 x TOSLINK (Optical Fibre)

IR Remote

5.5/2.1mm DC socket

4 x HDMI (Female)

HDMI (Female)

-

5.5/2.1mm DC socket

170x100x100mm (6.69x3.94x3.94in)

Metal

1.4kg (3.09lb)

0°C - 40°C (32°F - 104°F)

-20°C - 60°C (-4°F - 140°F)

10 - 85% RH (non-condensing)

12VDC 2A

No. 38271

155x72x25mm (6.1x2.83x0.98in)

Metal

0.38kg (0.84lb)

0°C - 40°C (32°F - 104°F)

-20°C - 60°C (-4°F - 140°F)

0 - 60% RH (non-condensing)

5VDC 1A

No. 38272

432x183x47mm (17.01x7.2x1.85in)

Metal

2.59kg (5.71lb)

0°C - 40°C (32°F - 104°F)

-20°C - 60°C (-4°F - 140°F)

20 - 90% RH (non-condensing)

5VDC 3A

No. 38273

85x85x34mm (3.35x3.35x1.34in)

Plastic

0.095kg (0.21lb)

0°C - 40°C (32°F - 104°F)

-20°C - 60°C (-4°F - 140°F)

20 - 90% RH (non-condensing)

5VDC 1A

No. 70416

190x90x23mm (7.48x3.54x0.91in)

Metal

0.764kg (1.68lb)

0°C - 40°C (32°F - 104°F)

-20°C - 60°C (-4°F - 140°F)

20 - 90% RH (non-condensing)

12VDC 2A

No. 38150

4 PORT HDMI 4K
QUAD VIEW KVM SWITCH PRO
No. 32329

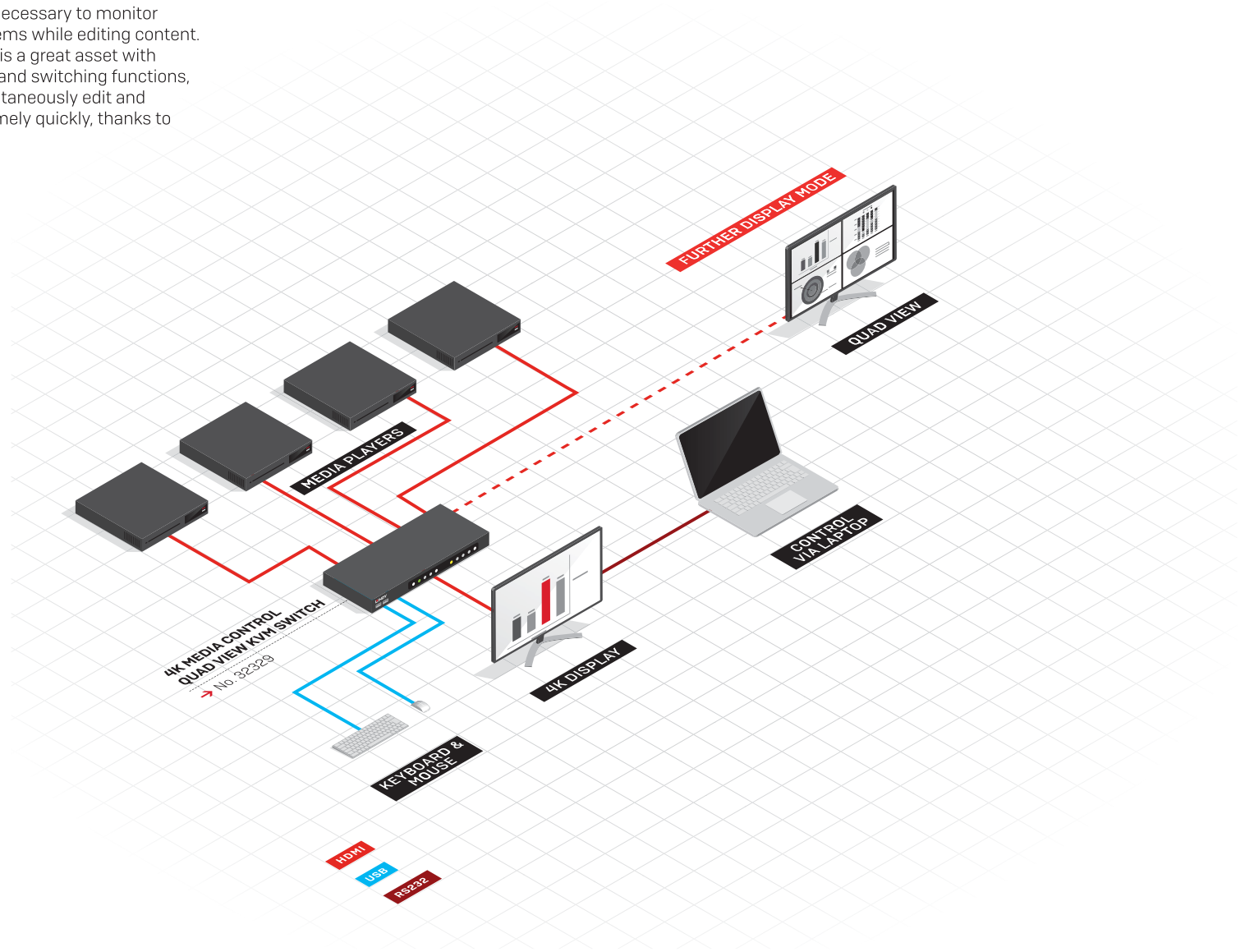
4K MEDIA CONTROL QUAD VIEW KVM SWITCH

When required to work simultaneously on a computer or multimedia system and monitor other source systems, a comprehensive device is required. It is often important to have access to all monitored systems in real time, should rapid intervention be needed. The Quad View KVM Switch features a seamless switching feature which ensures fast access without a handshake blackout, meaning continuous monitoring without interruption is possible. Depending on the requirements, four HD content signals are able to display at the same time on a single 4K split screen mode. A single signal can be upscaled to 4K in full screen mode. An OSD menu is used to configured the system. Switching takes place either via front panel buttons, IR remote control, RS232 or, in split screen mode, by dragging the mouse and clicking on the screen of the respective system required for access. Perfect when it comes to keeping different systems under control in real time, for example in video production.



COLLABORATION – MONITORING VIA AV SYSTEMS

In AV production, it's often necessary to monitor the signals from other systems while editing content. This quad view KVM switch is a great asset with its comfortable monitoring and switching functions, which make it easy to simultaneously edit and observe AV content – extremely quickly, thanks to seamless functionality.





▲ **QUAD VIEW
EQUAL ACCESS**

In quad view mode, each of four signals occupies exactly one quarter of the display. You can work in any of these virtual displays simply by moving the mouse cursor to it. Pressing the mouse wheel expands the active system to full-screen mode, and pressing it again restores quad view.





2 & 4 PORT DISPLAYPORT 1.2,
 USB 2.0 & AUDIO KVM SWITCH PRO
 No. 39304 & 39305

4K DELUXE DP KVM SWITCH PRO USB & AUDIO

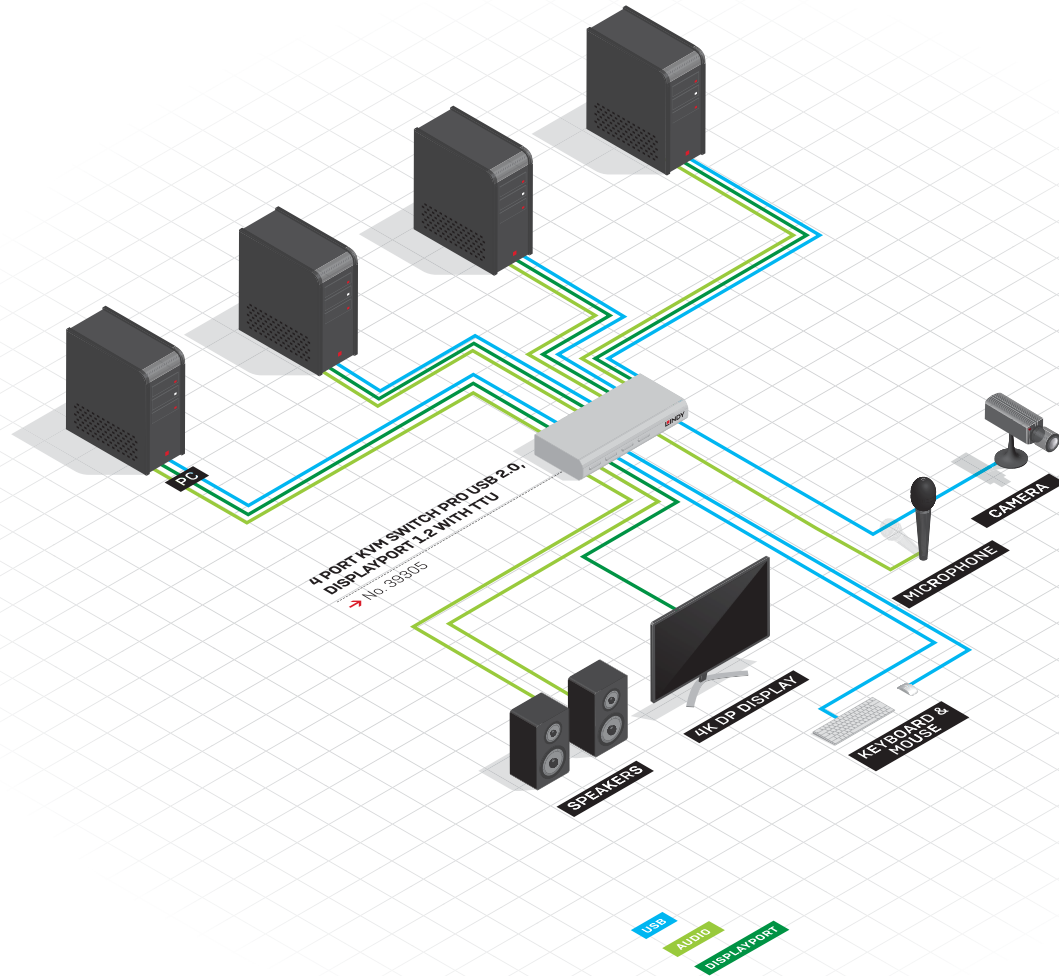
The days of single computer IT workplaces are long gone! Now it's often the case that, for example, a media server, office computers, computers for graphics processing and web or file servers all vie for an operator's attention. A high performance central switching unit is vital for keeping all of these competing systems under control. Boasting support for DisplayPort 1.2 and AV resolutions up to 3840x2160p at 60Hz, the DP KVM Pro Switch masters this task, even in state of the art 4K environments. And to avoid leaving any required USB 2.0 peripherals out in the cold, an integrated USB hub is also automatically switched as appropriate.

Or, if required – just like the audio ports – uncoupled and separately switched using dedicated hotkeys.

For monitoring purposes, there is also an autoscan mode that cycles through all ports at settable time intervals to help the user keep tabs on all computers.

CONNECTED HOME & OFFICE – ONE MULTIMEDIA CONSOLE FOR ALL

Computers are selected using buttons on the front panel or hotkeys. Ideal for AV and multimedia workplaces: as the controls on the front are clearly separated from the cable feeds on the back, the user can access all required systems in a fraction of a second, even in cramped working conditions.



FAST ACCESS

DVI KVM SWITCH PRO USB & AUDIO

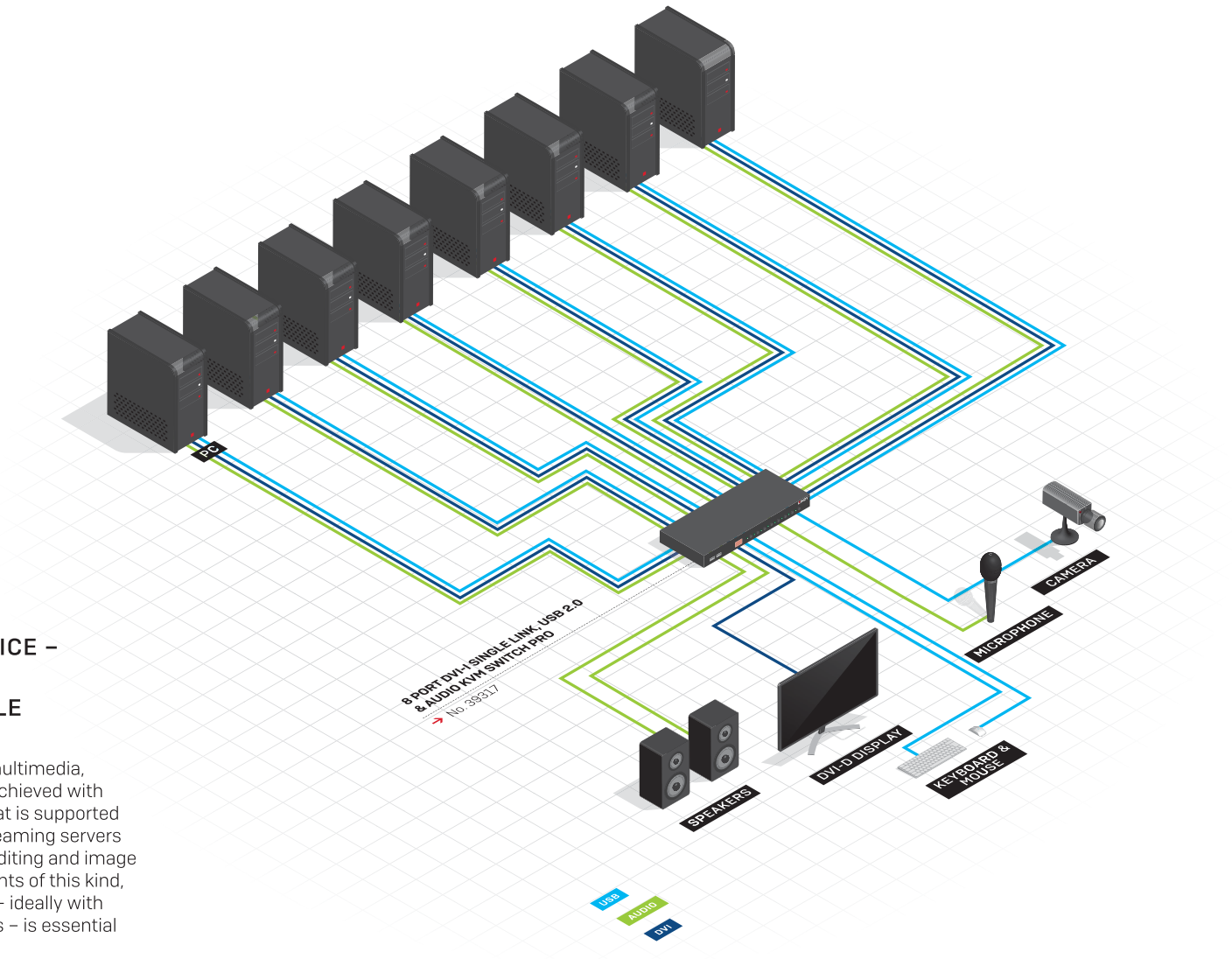
Anyone who works with multiple desktop computers or web, streaming, file, email or terminal servers in a modern AV environment needs unhindered, fast, live console access to all of them in order to quickly respond to and resolve critical situations. The DVI KVM professional switch easily enables this from a single console [comprising a keyboard, mouse and display]. To connect to any linked system, the administrator merely needs to enter a hotkey and port number. When time is of the essence, it's even faster to connect by pressing a push button on the front of the unit. The DVI-I signal (including VGA), USB keyboard and mouse, and analogue audio signals are switched simultaneously. This makes it ideal for multimedia environments. For convenient connection of any required additional peripherals, the switch integrates a USB 2.0 hub.

8 PORT DVI-I SINGLE LINK, USB 2.0
& AUDIO KVM SWITCH PRO
No. 39317



CONNECTED HOME & OFFICE – EIGHT COMPUTERS ONE MULTIMEDIA CONSOLE

Especially in the realms of AV and multimedia, high levels of performance can be achieved with a minimum number of staff. This feat is supported by small 19" racks for mounting streaming servers and powerful computers for video editing and image and audio processing. In environments of this kind, fast access to all involved systems – ideally with easy to remember keyboard hotkeys – is essential for ensuring full control at all times.



DISTRIBUTE EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR KVM RANGE



2 PORT HDMI, DVI, VGA, DISPLAYPORT, USB 2.0 & AUDIO KVM SWITCH COMPACT

These KVM switches connect two source devices to a KVM console comprising a USB keyboard, a USB mouse and display. Depending on the model, the switches support HDMI, DVI, VGA or DisplayPort 4K signal transmission. All of them provide simultaneous access to one or two USB 2.0 devices or a USB hub that can be plugged in to one of the two USB ports. Thanks to the switches' compact design, USB power supply and two permanently integrated system cable sets, they require very little space. Using a small remote QuickSwitch button or hotkey functions, the operator can quickly and dependably switch between the two computers from a distance. As they also switch a speaker and microphone together with high resolution video signals, they are perfectly suited for demanding multimedia and graphics applications.

-
- No. 42340 – 2 Port HDMI USB 2.0 & Audio KVM Switch Compact
 - No. 42341 – 2 Port DVI USB 2.0 & Audio KVM Switch Compact
 - No. 42342 – 2 Port VGA USB 2.0 & Audio KVM Switch Compact
 - No. 42343 – 2 Port DisplayPort USB 2.0 & Audio KVM Switch Compact



4 PORT DVI-I SINGLE LINK, USB 2.0 & AUDIO QUAD VIEW KVM SWITCH PRO

This quad view KVM switch routes up to four DVI-I signal sources to the same display. Other display modes (PiP, PaP and full screen) enable ergonomic presentation of content. It is also possible to connect a second screen that exclusively shows the video output of a connected computer. This makes it easy to monitor all or a subset of the connected sources on a separate console display while the other is used to control the active source. Integrated USB 2.0 ports are provided for connecting and jointly using additional peripherals. Up to eight switches can be cascaded for a total of up to 32 sources. An optional remote IP KVM module can also be integrated for use of a remote within a radius of 100 metres via direct connection or beyond 100m via IP using a gigabit network switch. This is a professional solution for seamlessly switching amongst four DVI sources, jointly accessing USB devices and routing sound to a multiview console.

-
- No. 32327 – 4 Port DVI-I Single Link, USB 2.0 & Audio Quad View KVM Switch Pro
 - No. 32328 – KVM Extender Over IP Remote Module for Quad View KVM Switch Pro



**2 & 4 PORT DVI-I SINGLE LINK, USB 2.0 & AUDIO
KVM SWITCH PRO**

These single link DVI-I KVM switches allow control of up to four single-link DVI computers with a single keyboard, monitor and mouse. Each DVI port also provides additional connections for audio transmission. Via an integrated USB 2.0 hub, data from USB peripherals can be flexibly exchanged between computers. True Transparent USB detects and emulates all data from the connected mouse or keyboard. The switches support digital resolutions up to 1920x1200p at 60Hz (DVI) and analogue resolutions up to 2048x1536p at 30Hz (VGA). These easily installed desktop solutions fit in virtually any small KVM application.

No. 39336 – 2 Port DVI-I Single Link, USB 2.0 & Audio KVM Switch Pro
No. 39337 – 4 Port DVI-I Single Link, USB 2.0 & Audio KVM Switch Pro



**2 & 4 PORT DVI-I DUAL LINK, USB 2.0 & AUDIO
KVM SWITCH PRO**

These KVM switches have been developed for controlling up to four computers equipped with dual-link DVI-I technology. They can switch a USB keyboard, mouse, monitor, audio and two USB 2.0 devices, either together or separately as required. Even greater flexibility is ensured by the two available USB 2.0 sockets, which support a large number of USB devices as well as USB hubs. The switches use True Transparent technology, with which USB devices can be sustainably emulated for each source. This permits faster switching with hotkey combinations while supporting the extra keys and functions of extended keyboards or a mouse at the same time. Ideal for use in imaging applications that require high dual-link resolutions.

No. 39338 – 2 Port DVI-I Dual Link, USB 2.0 & Audio KVM Switch Pro
No. 39339 – 4 Port DVI-I Dual Link, USB 2.0 & Audio KVM Switch Pro

THE MOST COMPREHENSIVE PORTFOLIO: THE KVM RANGE

Choose from our comprehensive product portfolio for distributing AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



2 PORT DVI-D SINGLE LINK, USB 2.0 & AUDIO KVM SWITCH COMPACT



2 PORT HDMI, USB 2.0 & AUDIO KVM SWITCH COMPACT



2 PORT DISPLAYPORT, USB 2.0 & AUDIO KVM SWITCH COMPACT

SPECIFICATIONS

AV Interface	DVI-D	HDMI	DisplayPort
Console Interfaces	USB	USB	USB
Interface Standard	DVI-D (Single Link), USB 2.0	HDMI 1.4a, USB 2.0	DisplayPort 1.2, USB 2.0
Maximum Resolution	1920x1200@60Hz	3840x2160@60Hz 4:2:0 8Bit, 1080p with 3D	3840x2160@30Hz
HDCP Support	1.4	1.4	DPCP Support
Supported Audio	Analogue Stereo	Analogue Stereo	Analogue Stereo
Separate Audio Ports	2 x 3.5mm (Female)	2 x 3.5mm (Female)	2 x 3.5mm (Female)
Serial Interface	-	-	-
Console Number	1	1	1
Max Number PC/Server	2	2	2
Cascadable	-	-	-
Switching Method	Port Buttons, Hotkey Switching & Software	Port Buttons, Hotkey Switching & Software	Port Buttons, Hotkey Switching & Software
19" Rack Mountable	-	-	-
Special Features	Supports USB 2.0 Hubs and Device Sharing	Supports USB 2.0 Hubs and Device Sharing	Supports USB 2.0 Hubs and Device Sharing

CONNECTORS

Console Interfaces	DVI (Female), USB 2.0 Type A (Female), 2 x 3.5mm (Female)	HDMI (Female), USB 2.0 Type A (Female), 2 x 3.5mm (Female)	DisplayPort (Female), USB 2.0 Type A (Female), 2 x 3.5mm (Female)
PC/Server Interfaces	2 x DVI-D (Male), USB 2.0 Type A (Male), 2 x 3.5mm (Male)	2 x HDMI (Male), USB 2.0 Type A (Male), 2 x 3.5mm (Male)	2 x DisplayPort (Male), USB 2.0 Type A (Male), 2 x 3.5mm (Male)
Other Interfaces	-	-	-
Power	-	-	-

PHYSICAL PROPERTIES

Dimensions (approx.) WxDxH	85x55x25mm (3.35x2.17x0.98in) Cable length 0.9m [2.95ft] Integrated Cables	85x55x25mm (3.35x2.17x0.98in) Cable length 0.9m [2.95ft] Integrated Cables	85x55x25mm (3.35x2.17x0.98in) Cable length 0.9m [2.95ft] Integrated Cables
Housing Material	Plastic	Plastic	Plastic
Net Weight	0.46kg (1.01lb)	0.46kg (1.01lb)	0.46kg (1.01lb)
Operating Temperature	0°C - 50°C (32°F - 122°F)	0°C - 50°C (32°F - 122°F)	0°C - 50°C (32°F - 122°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)
Humidity	0-90% RH (non-condensing)	0-90% RH (non-condensing)	0-90% RH (non-condensing)
Power Requirements	Powered by USB	Powered by USB	Powered by USB
	No. 42341	No. 42340	No. 42343



**2 PORT VGA, USB 2.0 & AUDIO
KVM SWITCH COMPACT**

VGA
USB
VGA, USB 2.0
2048x1536@30Hz
-
Analogue Stereo
2 x 3.5mm (Female)
-
1
2
-
Port Buttons, Hotkey Switching & Software
-
Supports USB 2.0 Hubs and Device Sharing

VGA (Female), USB 2.0 Type A (Female), 2 x 3.5mm (Female)
2 x VGA (Male), USB 2.0 Type A (Male), 2 x 3.5mm (Male)
-
-

85x55x25mm (3.35x2.17x0.98in) Cable length 0.9m (2.95ft) Integrated Cables
Plastic
0.46kg (1.01lb)
0°C - 50°C (32°F - 122°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
Powered by USB

No. 42342



**4 PORT DVI-I SINGLE LINK, USB 2.0 & AUDIO
QUAD VIEW KVM SWITCH PRO**

DVI-I
USB
DVI-D 2.0 (Single Link), USB 1.1
1920x1200@60Hz
-
Analogue Stereo
2 x 3.5mm (Female)
Yes (Adapter Cable included)
1
4
Yes
Port Buttons, Hotkey Switching (Hotkey Configurable), Web Interface, Serial Interface
Yes (1U - Rack Mount Brackets Included)
Optional IP Remote Console Module No. 32328

2 x DVI-D (Female), USB Type A HID (Female), 2 x 3.5mm (Female)
4 x DVI-D (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)
2 x USB 2.0 Type A (Female) Shared Ports (Front Panel)
5.5/2.1mm DC socket

440x200x45mm (17.32x7.87x1.77in)
Metal
2.7kg (5.95lb)
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
12VDC 5A

No. 32327



**4 PORT HDMI 4K
QOLAD VIEW KVM SWITCH PRO**

HDMI
USB
HDMI 2.0, USB 1.1
Input: 1920x1080@60Hz, Output: 4K60Hz
HDCP 1.4
Stereo LPCM and Multichannel Dolby Digital, DTS, Dolby TrueHD, DTS-HD (HDMI Embedded)
-
Yes
1
4
Yes
Port Buttons, Hotkey Switching (Hotkey Configurable), Serial Interface
Yes (1U - Rack Mount Brackets Included)
-

1 x HDMI (Female), 2 x USB Type A HID (Female)
4 x HDMI (Female), 4 x USB 1.1 Type B (Female)
-
5.5/2.1mm DC socket

438x200x44mm (17.32x7.87x1.77in)
Metal
2.7kg (5.95lb)
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
12VDC 5A

No. 32329



SPECIFICATIONS

	2 PORT DVI-I SINGLE LINK, USB 2.0 & AUDIO KVM SWITCH PRO	4 PORT DVI-I SINGLE LINK, USB 2.0 & AUDIO KVM SWITCH PRO	2 PORT DVI-I DUAL LINK, USB 2.0 & AUDIO KVM SWITCH PRO
AV Interface	DVI-I	DVI-I	DVI-I
Console Interfaces	USB	USB	USB
Interface Standard	DVI-I 2.0 (Single Link), USB 2.0	DVI-I 2.0 (Single Link), USB 2.0	DVI-I 2.0 (Dual Link), USB 2.0
Maximum Resolution	DVI: 1920x1200@60Hz, VGA: 2048x1536@30Hz	DVI: 1920x1200@60Hz, VGA: 2048x1536@30Hz	DVI: 2560x1600@60Hz, VGA: 2048x1536@30Hz
HDCP Support	-	-	-
Supported Audio	Analogue Stereo	Analogue Stereo	Analogue Stereo
Separate Audio Ports	2 x 3.5mm (Female)	2 x 3.5mm (Female)	2 x 3.5mm (Female)
Serial Interface	-	-	-
Console Number	1	1	1
Max Number PC/Server	2	4	2
Cascadable	Yes	Yes	Yes
Switching Method	Port Buttons, Hotkey Switching (Configurable Hotkeys)	Port Buttons, Hotkey Switching (Configurable Hotkeys)	Port Buttons, Hotkey Switching (Configurable Hotkeys)
19" Rack Mountable	-	-	-
Special Features	Shared USB Ports	Shared USB Ports	Shared USB Ports

CONNECTORS

Console Interfaces	DVI-I (Female), USB Type A HID (Female), 2 x 3.5mm (Female)	DVI-I (Female), USB Type A HID (Female), 2 x 3.5mm (Female)	DVI-I (Female), USB Type A HID (Female), 2 x 3.5mm (Female)
PC/Server Interfaces	2 x DVI-I (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)	4 x DVI-I (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)	2 x DVI-I (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)
Other Interfaces	2 x USB 2.0 Type A (Female)	2 x USB 2.0 Type A (Female)	2 x USB 2.0 Type A (Female)
Power	5.5/2.1mm	5.5/2.1mm	5.5/2.1mm

PHYSICAL PROPERTIES

Dimensions (approx.) WxDxH	165x110x46mm (6.5x4.33x1.81in)	255x120x46mm (10.04x4.72x1.81in)	165x110x46mm (6.5x4.33x1.81in)
Housing Material	Metal + Plastic Front Panel	Metal + Plastic Front Panel	Metal + Plastic Front Panel
Net Weight	0.95kg (2.09lb)	1.25kg (2.76lb)	0.95kg (2.09lb)
Operating Temperature	0°C - 50°C (32°F - 122°F)	0°C - 50°C (32°F - 122°F)	0°C - 50°C (32°F - 122°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)
Humidity	0-90% RH (non-condensing)	0-90% RH (non-condensing)	0-90% RH (non-condensing)
Power Requirements	9VDC 1.1A	9VDC 1.1A	9VDC 1.1A
	No. 39336	No. 39337	No. 39338



**4 PORT DVI-I DUAL LINK,
USB 2.0 & AUDIO KVM SWITCH PRO**

DVI-I
USB
DVI-I 2.0 (Dual Link), USB 2.0
DVI: 2560x1600@60Hz, VGA: 2048x1536@30Hz
-
Analogue Stereo
2 x 3.5mm (Female)
-
1
4
Yes
Port Buttons, Hotkey Switching (Configurable Hotkeys)
-
Shared USB Ports

**2 PORT DISPLAYPORT 1.2,
USB 2.0 & AUDIO KVM SWITCH PRO**

DisplayPort
USB
DisplayPort 1.2, USB 2.0
3840x2160@60Hz
-
Analogue Stereo
2 x 3.5mm (Female)
-
1
2
Yes
Port Buttons, Hotkey Switching (Configurable Hotkeys)
-
Shared USB Ports

**4 PORT DISPLAYPORT 1.2,
USB 2.0 & AUDIO KVM SWITCH PRO**

DisplayPort
USB
DisplayPort 1.2, USB 2.0
3840x2160@60Hz
-
Analogue Stereo
2 x 3.5mm (Female)
-
1
4
Yes
Port Buttons, Hotkey Switching (Configurable Hotkeys)
-
Shared USB Ports

**8 PORT DVI-I SINGLE LINK, USB 2.0 & AUDIO
KVM SWITCH PRO**

DVI-I
USB
DVI-I 2.0 (Single Link), USB 2.0
DVI: 1920x1200@60Hz, VGA: 2048x1536@30Hz
-
Analogue Stereo
2 x 3.5mm (Female)
-
1
8
Yes
Port Buttons, Hotkey Switching (Configurable Hotkeys)
-
Shared USB Ports

DVI-I (Female), USB Type A HID (Female), 2 x 3.5mm (Female)
4 x DVI-I (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)
2 x USB 2.0 Type A (Female)
5.5/2.1mm

DisplayPort (Female), USB Type A HID (Female), 2 x 3.5mm (Female)
2 x DisplayPort (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)
2 x USB 2.0 Type A (Female)
5.5/2.1mm

DisplayPort (Female), USB Type A HID (Female), 2 x 3.5mm (Female)
4 x DisplayPort (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)
2 x USB 2.0 Type A (Female)
5.5/2.1mm

DVI-I (Female), 2 x USB Type A HID (Female), 2 x 3.5mm (Female)
8 x DVI-I (Female), USB 2.0 Type B (Female), 2 x 3.5mm (Female)
2 x USB 2.0 Type A (Female)
5.5/2.5mm

255x120x46mm (10.04x4.72x1.81in)
Metal + Plastic Front Panel
1.25kg (2.76lb)
0°C - 50°C (32°F - 122°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
9VDC 1.1A

165x110x46mm (6.5x4.33x1.81in)
Metal
0.6kg (1.32lb)
0°C - 50°C (32°F - 122°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
9VDC 1.1A

255x120x460mm (10.04x4.72x18.11in)
Metal
1kg (2.2lb)
0°C - 50°C (32°F - 122°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
9VDC 1.1A

407 x 110 x 46mm (16.02x4.33x1.81in)
Metal
1.5kg (3.31lb)
0°C - 50°C (32°F - 122°F)
-20°C - 60°C (-4°F - 140°F)
0-90% RH (non-condensing)
9VDC 2A

No. 39339

No. 39304

No. 39305

No. 39317



EXTENDING

We push back limits. For example, with our repeaters. They allow us to double or even triple the maximum transmission distances defined by standard cable protocols. We utilize our extender technology to implement virtually limitless connections: transmitting AV and data signals via copper lines over several hundred metres, over fibre-optic cables across multiple kilometres and, with IP, even worldwide.

SCENARIOS, PRODUCTS & TECHNICAL INFORMATION

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FIBRE OPTIC RANGE	PAGE 94
IP RANGE	PAGE 104
KVM RANGE	PAGE 112



EXTEND EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR REPEATER RANGE



50M HDMI 2.0 10.2G REPEATER

Inserted between two standard HDMI cables, this 4K repeater makes it simple to amplify and extend a source signal. This permits a total distance of up to 50 metres between the source and target devices. The repeater supports 4K at 60Hz and 30Hz up to 35 metres and 1080p at 60Hz up to 50 metres. Sporting a maximum bandwidth of 10.2 Gbps, it is absolutely suitable for contemporary 4K UHD content. As it is very compact and receives its power supply via the HDMI port of the source device, it can be easily integrated in any application.

No. 38015



40M HDMI 2.0 18G REPEATER

This compact signal amplifier is used between two HDMI cables to extend 4K UHD HDMI 2.0 signals over a total distance of up to 40 metres between the source and the target device. It supports data rates of up to 18Gbps at a resolution of up to 4K at 60Hz with a colour space of 4:4:4 and 8bit colour depth, at distances up to 20m. In addition 13.4 Gbps signals such as 4K at 60Hz with a 4:2:0 colour space and 12bit colour depth can achieve 25m and 8.9Gbps signals such as 4K at 60Hz with a colour space of 4:2:0 and 8bit colour depth can reach 40m. The amplifier ensures constant high-quality signal transmission with full support for HDMI 2.0, including 3D (180p), HDCP 2.2/1.4 and Deep Colour. In addition, HDR10 guarantees brilliant, more vibrant colours. Its practical small size and full HDMI 2.0 compatibility ensure professional installation in temporary and permanent applications, also in space-critical environments.

No. 38211



40M HDMI 2.0 18G REPEATER PREMIUM

This active 4K amplifier makes it possible to connect two HDMI cables for transmitting a signal over a total distance of up to 40 metres. It supports HDMI 2.0 resolutions up to 3840x2160p at 60Hz with a 4:4:4 colour space and 8bit colour depth, including HDR 10 and HDCP 2.2, and is backwards compatible with all older HDMI specifications. The repeater can be supplied with power either from the HDMI source or from an external source connected directly to it; the latter possibility makes it possible to extend signals over even longer distances by daisy-chaining up to ten repeaters. The robust metal casing shields the signal from EMI, thus also making the repeater suitable for professional applications and permanent installations for which even longer distances need to be bridged.

No. 38210



80M DVI-D SINGLE LINK REPEATER

This repeater opens up the possibility of connecting two single-link DVI-D cables for sending signals over a total distance of up to 80 metres. Support is provided for cables up to 60 metres long at the input and 20 metres at the output, as well as resolutions up to 1920x1200 (WUXGA) and HDTV up to 1080p including HDCP 1.1. Due to its small size and the fact that no additional power source is required, it is effortless to install and ideal for discreet professional applications.

No. 32667



45M DVI-D DUAL LINK REPEATER

This repeater extends the greatest possible overall cable length between the source and target devices to 45 metres with full HDTV resolution. Power from the source device is used to amplify a dual-link DVI-D signal with a maximum resolution of 2560x1600p at 60Hz with cable lengths of 25 metres at the input and 20 metres at the output. If the source device doesn't deliver a stable DVI signal, it can be improved with an optional mains adapter. The repeater is ideally suited for installations in which DVI-D signals need to be flexibly extended over different distances (depending on the size of the room) with plug & play.

No. 32670



17.5M DISPLAYPORT 1.2 REPEATER

This 4K repeater makes it easy to extend a signal over a total distance of up to 17.5 metres between the source and target devices by providing amplification in the middle of two DisplayPort cables. It supports resolutions up to 4K UHD at 60Hz, but distances as large as 30 metres can also be bridged with a lower resolution of 2560x1600p at 60Hz. Power is normally supplied via the DisplayPort source, however, use of an external power supply can significantly improve unstable DisplayPort signals. Compatible with DPCP and HDCP 1.4, the repeater is ideal for professional applications in which speed, reliability and flexibility for dealing with space restrictions are paramount.

No. 38412



40M DISPLAYPORT 1.2 REPEATER

This active DisplayPort repeater with external power supply permits lossless amplification of audio/video signals in a DisplayPort 1.2 link with a length of up to 40 metres. It supports 4K connections at 60Hz over 10 metres (5 metres at the input and 5 at the output), 4K at 30Hz over 35 metres (15 metres at the input and 20 at the output) and 1600p over 40 metres (20 metres at the input and 20 metres at the output). Transmission losses over long distances are thus a thing of the past. The output port supports dual-mode DisplayPort (DP++), which also permits the use of HDMI, DVI or VGA screens with appropriate adapters. The DisplayPort signal amplifier corresponds to the DisplayPort 1.2 standard and is also backwards-compatible with all older DisplayPort specifications. The signal is optimally amplified to prevent problems such as noise or distortion over long distances in any application and environment.

No. 38413

THE MOST COMPREHENSIVE PORTFOLIO: THE REPEATER RANGE

Choose from our comprehensive product portfolio for extending AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	50M HDMI 2.0 10.2G REPEATER	40M HDMI 2.0 18G REPEATER	40M HDMI 2.0 18G REPEATER PREMIUM
AV Interface	HDMI	HDMI	HDMI
Interface Standard	HDMI 1.4	HDMI 2.0	HDMI 2.0
Supported Bandwidth	10.2Gbps	18Gbps	18Gbps
Maximum Distance	35m [114.83ft] 3840x2160@60Hz 4:2:0 8bit 35m [114.83ft] 3840x2160@30Hz 4:4:4 8bit 50m [164.04ft] 1920x1080@60Hz 4:4:4 8bit	40m [131.23ft] - 3840x2160@60Hz 4:2:0 8bit 25m [82.02ft] - 3840x2160@60Hz 4:2:0 12bit 20m [65.62ft] - 3840x2160@60Hz 4:4:4 8bit	40m [131.23ft] - 3840x2160@60Hz 4:2:0 8bit 25m [82.02ft] - 3840x2160@60Hz 4:2:0 12bit 20m [65.62ft] - 3840x2160@60Hz 4:4:4 8bit
Maximum Input Distance	15m [49.21ft] - 3840x2160@60Hz 4:2:0 8bit 15m [49.21ft] - 3840x2160@30Hz 4:4:4 8bit 20m [65.62ft] - 1920x1080@60Hz 4:4:4 8bit	20m [65.62ft] - 3840x2160@60Hz 4:2:0 8bit 15m [49.21ft] - 3840x2160@60Hz 4:2:0 12bit 10m [32.81ft] - 3840x2160@60Hz 4:4:4 8bit	20m [65.62ft] - 3840x2160@60Hz 4:2:0 8bit 15m [49.21ft] - 3840x2160@60Hz 4:2:0 12bit 10m [32.81ft] - 3840x2160@60Hz 4:4:4 8bit
Maximum Output Distance	20m [65.62ft] - 3840x2160@60Hz 4:2:0 8bit 20m [65.262ft] - 3840x2160@30Hz 4:4:4 8bit 30m [98.42ft] - 1920x1080@60Hz 4:4:4 8bit	20m [65.62ft] - 3840x2160@60Hz 4:2:0 8bit 10m [32.81ft] - 3840x2160@60Hz 4:2:0 12bit 10m [32.81ft] - 3840x2160@60Hz 4:4:4 8bit	20m [65.62ft] - 3840x2160@60Hz 4:2:0 8bit 10m [32.81ft] - 3840x2160@60Hz 4:2:0 12bit 10m [32.81ft] - 3840x2160@60Hz 4:4:4 8bit
Maximum Resolution	3840x2160@60Hz 4:2:0 8bit	3840x2160@60Hz 4:4:4 8bit	3840x2160@60Hz 4:4:4 8bit
HDCP Support	Pass-Through	Pass-Through	Pass-Through
Transmission Medium	2 x HDMI Cable	2 x HDMI Cable	2 x HDMI Cable
Special Features	-	-	Cascadable Up To 10 layers
CONNECTORS			
Input	HDMI (Female)	HDMI (Female)	HDMI (Female)
Output	HDMI (Female)	HDMI (Female)	HDMI (Female)
Power	-	-	3.5/1.35mm DC socket
PHYSICAL PROPERTIES			
Dimensions [approx.] WxDxH	50x27x15mm [1.97x1.06x0.59in]	28x51x13mm [1.1x2.01x0.51in]	43x81x23mm [1.69x3.19x0.91in]
Housing Material	ABS Plastic	Metal	Metal
Net Weight	0.015kg (0.03lb)	0.022kg (0.05lb)	0.095kg (0.21lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 45°C (32°F - 113°F)	0°C - 45°C (32°F - 113°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)
Humidity	20-90% RH [non-condensing]	20-90% RH [non-condensing]	20-90% RH [non-condensing]
Power Requirements	-	-	-
	No. 38015	No. 38211	No. 38210



80M DVI-D SINGLE LINK REPEATER

DVI-D
DVI-D (Single Link)
4.95Gbps
80m [262.46ft] - 1920x1200@60Hz
60m [196.85ft] - 1920x1200@60Hz
20m [65.62ft] - 1920x1200@60Hz
1920x1200@60Hz
1.1
2 x DVI-D Cable
-

45M DVI-D DUAL LINK REPEATER

DVI-D
DVI-D (Dual Link)
9.9Gbps
45m [147.64ft] - 2560x1600@60Hz
25m [82.02ft] - 2560x1600@60Hz
20m [65.62ft] - 2560x1600@60Hz
2560x1600@60Hz
-
2 x DVI-D Cable
-

17.5M DISPLAYPORT 1.2 REPEATER

DisplayPort
DisplayPort 1.2
21.6Gbps
17.5m [57.41ft] - 3840x2160@60Hz 30m [98.42ft] - 2560x1600@60Hz
10m [32.81ft] - 3840x2160@60Hz 15m [49.21ft] - 2560x1600@60Hz
7.5m [24.61ft] - 3840x2160@60Hz 15m [49.21ft] - 2560x1600@60Hz
3840x2160@60Hz
1.4
2 x DisplayPort Cable
DPCP Compatible

40M DISPLAYPORT 1.2 REPEATER

DisplayPort
DisplayPort 1.2
21.6Gbps
40m [131.23ft] - 2560x1600@60Hz 35m [114.83ft] - 3840x2160@30Hz 10m [32.81ft] - 3840x2160@60Hz
20m [65.62ft] - 2560x1600@60Hz 15m [49.21ft] - 3840x2160@30Hz 5m [16.4ft] - 3840x2160@60Hz
20m [65.62ft] - 2560x1600@60Hz 20m [65.62ft] - 3840x2160@30Hz 5m [16.4ft] - 3840x2160@60Hz
3840x2160@60Hz
1.4
2 x DisplayPort Cable
DPCP Compatible

DVI-I Single Link (Female)
DVI-I Single Link (Female)
3.5/1.35mm DC socket

DVI-I Dual Link (Female)
DVI-I Dual Link (Female)
5.5/2.5mm DC socket

DisplayPort (Female)
DisplayPort (Female)
3.5/1.35mm DC socket

DisplayPort (Female)
DisplayPort (Female)
3.5/1.35mm DC socket

67x45x13mm [2.64x1.77x0.51in]
Metal
0.077kg [0.17lb]
0°C - 45°C [32°F - 113°F]
-20°C - 60°C [-4°F - 140°F]
20-90% RH [non-condensing]
-

55x45x20mm [2.17x1.77x0.79in]
Metal
0.07kg [0.15lb]
0°C - 45°C [32°F - 113°F]
-20°C - 60°C [-4°F - 140°F]
20-90% RH [non-condensing]
-

47x31x21mm [1.85x1.22x0.83in]
Metal
0.07kg [0.15lb]
-10°C - 50°C [14°F - 122°F]
-20°C - 75°C [-4°F - 167°F]
10-85% RH [non-condensing]
5VDC 3A

54x54x19mm [2.13x2.13x0.75in]
Plastic
0.11kg [0.24lb]
5°C - 50°C [41°F - 122°F]
-20°C - 60°C [-4°F - 140°F]
0-80% RH [non-condensing]
5VDC 1A

No. 32667

No. 32670

No. 38412

No. 38413

BEYOND THE LIMITS

18G HDBaseT EXTENDER

A bandwidth of 18Gbps is required for transmitting HDMI 2.0 content with 3840x2160@60Hz 4:4:4 and an 8bit colour depth. For this to be possible over HDBaseT, which is currently limited to a maximum speed of 10.2Gbps, this set integrates sophisticated technology that revs it up to faster bandwidths. A special latency-free compression algorithm permits transmission of 4K content at 60Hz over distances up to 70m, and at lower bandwidths as far as 100m. The Cat.6 Ethernet cables now already found in most buildings can be conveniently taken advantage of for this. IR remote control signals, RS232, Fast Ethernet and the power supply for the receiver (via PoC) go along for the ride. It's ideal for operating, configuring and supplying HDMI 2.0 content to networked projectors, for example, which are often installed on ceilings and in other hard to access places.

100M C6 HDBaseT HDMI 2.0 18G
& IR EXTENDER
No. 38219



CONNECTED HOME & OFFICE – ALL SIGNALS TO A PROJECTOR – VIA A SINGLE LINE

In modern conference room and home cinema installations, it makes sense to mount the projectors on the ceiling. This 18G HDBaseT extender with 5Play technology conveniently supports such installations allowing them to be easily (remotely) operated and configured while reliably sending AV content over the long signal paths that are inevitably involved for ceiling installations. It delivers IR control signals for operation, Ethernet for configuration, HDMI 2.0 for audio/video content and PoH for powering the receiver – all over a single Cat.6 cable.



100M C6 HDBaseT 2.0 HDMI
& USB KVM EXTENDER
No. 38209

LINE EFFICIENCY

HDBaseT 2.0 EXTENDER

This extender, with its clever, cutting-edge HDBaseT version 2.0 technology, is perfect for delivering high resolution AV content over distances up to 100m, which is required for many small and mid sized installations.

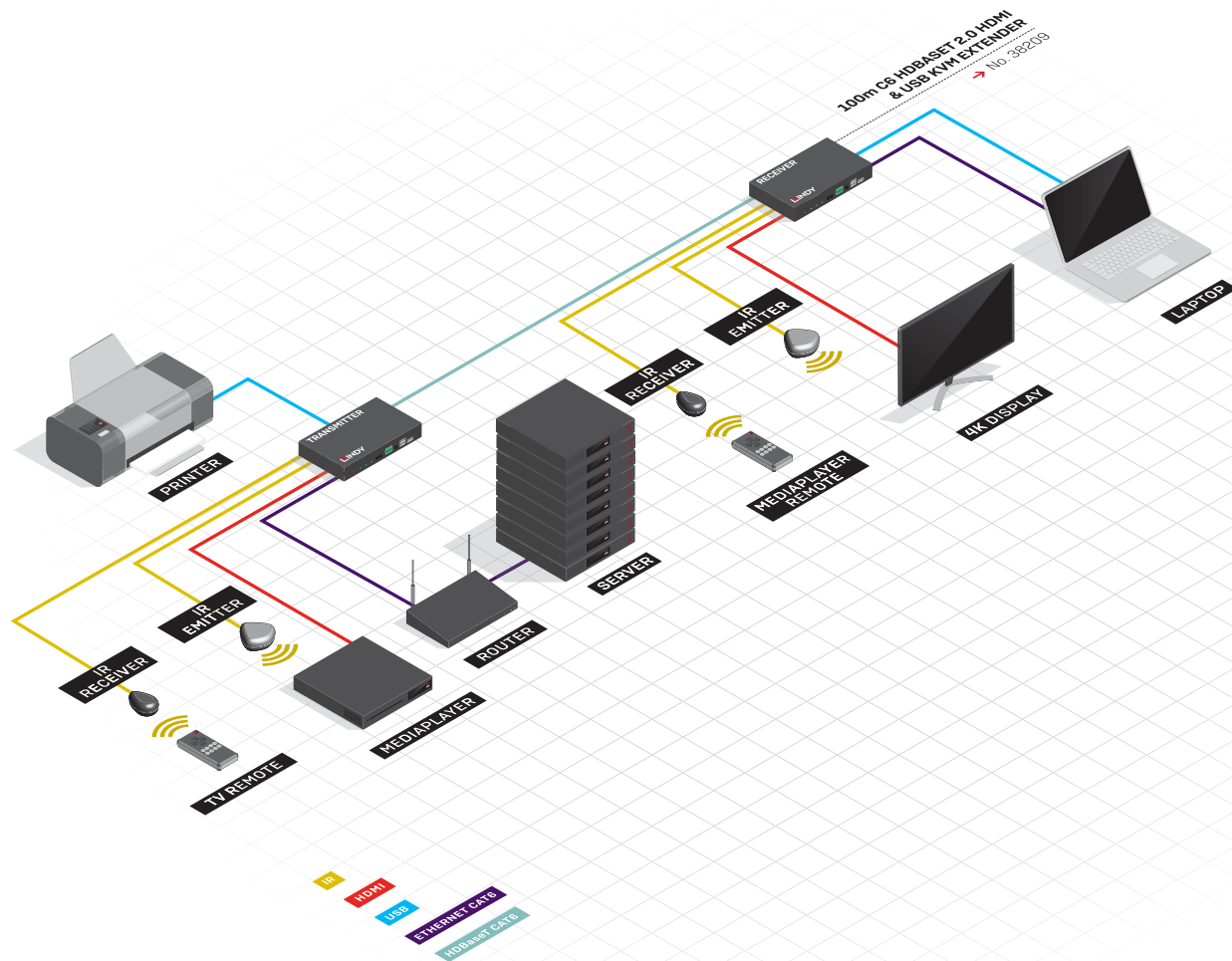
AV content up to 3840x2160@60Hz via HDMI, Fast Ethernet, IR and RS232 control signals, plus USB 2.0 can all smoothly and reliably share a single Cat.6 path without conflicting. Pre-existing Cat.6 Ethernet connections within a building can be easily used for this. Integrated USB transmission capabilities can be taken advantage of for uplink or downlink applications. The possibilities include placing an entire workplace at a distance from a computer or, say, connecting a USB device such as a printer to a remote laptop. Uncompressed transmission ensures that AV content arrives without sacrificing anything in the way of brilliance and detail.



CONNECTED HOME & OFFICE – FIVE SIGNALS – ONE LINE

Many small and mid sized companies require a way to route high resolution AV content from a source device in an equipment or server room to a display elsewhere for presentation purposes. The HDBaseT Extender perfectly lends itself to this task by taking advantage of existing cables. The same line can also carry Ethernet signals to

and from workstations, provide bidirectional USB connections between both locations, and transmit IR signals for remotely controlling the source device and display. These multiple features maximises the cost-efficiency of the existing cable network.



CREATIVITY IS TRANSFORMING A NARROW PATHWAY INTO A DATA SUPERHIGHWAY.

Professional signal management: extend and distribute uncompressed UHD/4K multimedia content and four other signals over a single cable. It's difficult to send uncompressed digital AV signals further than 20 metres using ordinary copper cables. HDBaseT is therefore the new standard for distributing uncompressed UHD multimedia content in professional AV applications without loss of quality. It is based on the 5Play feature set, which permits the transmission of Ultra-HD Digital Video/Audio, 100Base-T Ethernet, RS232 and IR control signals, up to 100W of power and, under the latest specification (2.0), USB 2.0 as well, up to 100m over an inexpensive HDBaseT RJ45 cable. With fibre-optic technology, considerably larger distances can be bridged. This provides virtually unlimited freedom for designing and installing up-to-date AV transmission systems.



100M C6 HDBASET HDMI, RS232 & IR
EXTENDER WITH POH
No. 38115

MULTI-SIGNAL TRANSFER HDBaseT EXTENDER

When there's a need to transmit high resolution signals over intermediate distances for modern AV systems – for example, from a source device to a projector mounted on the ceiling – at first glance there only seem to be two options, neither of which is truly satisfactory: expensive, excessively long HDMI cables with a limited range or else fibre optic technology, which may be challenging and time consuming to install. Fortunately, there is another, much less costly possibility. Many modern buildings are wired with Cat.6 Ethernet cables, which can be utilised using HDBaseT technology. This is where the HDBaseT Extender comes into play. It can be used to send up to five different kinds of IT signals over a single Cat.6 Ethernet cable up to 100m long: audio and video as HDMI, Ethernet, IR remote control signals and RS232, plus the power for the receiver [to avoid having to install an additional mains socket at the display]. This lets you use the installed network lines to deliver AV content to different parts of a building [e.g. for digital signage] while also supplying network enabled displays or applications with Ethernet.

EXTEND EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR HDBaseT RANGE



70M C6 HDBaseT HDMI & IR EXTENDER WITH POC

This extender set transmits an uncompressed HDMI signal with a resolution of up to 4K at 60Hz with a 4:2:0 colour space and 8bit colour depth, including 3D (1080p). This opens up the possibility of placing the source and screen up to 70 metres apart without any loss of quality. Bidirectional IR control signals can also be sent along for remotely controlling connected peripherals at either end of the extension. In compliance with the HDBaseT standard, all signals are distributed over a single Category 5e or 6 Ethernet cable. The set also includes a PoC feature for supplying power to the receiver via an Ethernet cable for a straightforward, elegant installation that delivers excellent video quality.

No. 38139



100M C6 HDBaseT HDMI & IR EXTENDER

This 4K extender set transmits uncompressed digital HDMI signals in top quality over distances up to 100 metres. IR signals also traverse the network cable for better control and less walking back and forth, as both the transmitter and the receiver are remotely controllable from 100 metres away. Other network devices and peripherals can also be almost effortlessly integrated via the integrated Ethernet hub and the same network cable. The set supports resolutions up to 4K at 60Hz as well as digital audio signals up to 7.1 HD. Simple plug & play installation allows integration in new or existing systems to feed high resolution content to screens in large public spaces via a single network cable, while the sources remain at a safe distance in a protected environment.

No. 38119

**100M C6 HDBaseT
4 PORT HDMI & IR SPLITTER EXTENDER**

This 1x4 HDMI splitter provides a fast, efficient way to simultaneously distribute high resolution HDMI signals from a source device to as many as four HDBaseT receivers and the screens connected to them. Nothing else is required except a Category 5e or 6 Ethernet cable running from the splitter to each receiver. The maximum transmission distance is 100 metres. The four way splitter additionally supports HDCP 2.2, audio and EDID pass-through. IR extension is also supported, which enables remote control of the connected source from each of the remote screens. Used in conjunction with additional HDBaseT receivers, this splitter/extender is an ideal all-in-one solution for any professional installation that needs to transmit multimedia UHD content to multiple devices up to 100 metres away.

No. 38116**100M C6 HDBaseT
8 PORT HDMI & IR SPLITTER EXTENDER & RECEIVER**

This set simultaneously extends and distributes an uncompressed 4K 60Hz signal as well as 3D Full HD signals, multi-channel audio, Ethernet and an IR signal from an HDMI source to up to eight screens, projectors or even speakers. As it integrates HDBaseT technology, only a single Category 5e or 6 Ethernet cable is required to transmit signals over a distance of up to 100 metres. HDCP, 3D and Deep Colour are supported for sending HDMI signals with resolutions up to 4K at 60Hz including digital audio signals up to 7.1 HD. The set utilises EDID technology for handling, processing and relaying resolutions and refresh rates, which enables plug & play operation of HDMI source and target services. The splitter/extender is a highly versatile solution in terms of scalability and flexibility. Receiver units can be added as needed. Ideal for simultaneously distributing UHD signals to multiple sites and custom-tailoring AV signal management as required by the installation.

**No. 38117 – 100m C6 HDBaseT 8 Port HDMI & IR Splitter Extender
No. 38118 – 100m C6 HDBaseT HDMI & IR Receiver**

THE MOST COMPREHENSIVE PORTFOLIO: THE HDBaseT RANGE

Choose from our comprehensive product portfolio for extending AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	70M C6 HDBaseT HDMI & IR EXTENDER WITH POC	100M C6 HDBaseT HDMI & IR EXTENDER	100M C6 HDBaseT HDMI, RS232 & IR EXTENDER WITH POH	100M C6 HDBaseT HDMI 2.0 18G & IR EXTENDER
AV Interface	HDMI	HDMI	HDMI	HDMI
Interface Standard	HDMI 2.0	HDMI 2.0	HDMI 2.0	HDMI 2.0
Supported Bandwidth	10.2Gbps	10.2Gbps	10.2Gbps	18Gbps
Maximum Distance	70m (229.66ft)	100m (328.08ft)	100m (328.08ft)	100m (328.08ft)
Maximum Resolution	3840x2160@60Hz 4:2:0 8bit	3840x2160@60Hz 4:2:0 8bit	3840x2160@60Hz 4:2:0 8bit	3840x2160@60Hz 4:4:4 8bit
HDCP Support	Pass-Through	Pass-Through	Pass-Through	Pass-Through
EDID Pass Through	Pass-Through	Pass-Through	Pass-Through	Pass-Through
Supported Audio	Pass-Through	Pass-Through	Pass-Through	Pass-Through
IR Support	30-60kHz	33-50kHz	33-50kHz	30-60kHz
CEC Support	Pass-Through	Pass-Through	Pass-Through	Pass-Through
Serial Interface	-	-	RS232	RS232
Transmission Protocol	HDBaseT	HDBaseT	HDBaseT	HDBaseT
Transmission Medium	1 x Cat.5e/6	1 x Cat.5e/6	1 x Cat.5e/6	1 x Cat.6
Chipset	VS010	VS100	VS100	VS100
Special Features	PoC (Power over Cat.6)	-	PoH (Power over HDBaseT)	PoC (Power over Cat.6)
CONNECTORS				
Transmitter Input	HDMI (Female), IR (Female)	HDMI (Female)	HDMI (Female), IR (Female)	HDMI (Female), IR (Female)
Transmitter Output	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)
Receiver Input	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)
Receiver Output	HDMI (Female), IR (Female)	HDMI (Female)	HDMI (Female), IR (Female)	HDMI (Female), IR (Female)
Bidirectional Ports	-	10/100 Ethernet	10/100 Ethernet, RS232	10/100 Ethernet, RS232
Power	5.5/2.1mm DC socket	3.5/1.35mm DC socket	5.5/2.1mm DC socket	5.5/2.1mm DC socket
PHYSICAL PROPERTIES				
Dimensions (approx.) WxDxH	65x100x25mm (2.56x3.94x0.98in) per unit	110x75x25mm (4.33x2.95x0.98in) per unit	130x130x30mm (5.12x5.12x1.18in) per unit	157x90x20mm (6.18x3.54x0.79in) per unit
Housing Material	Metal	Metal	Metal	Metal
Net Weight	0.31kg (0.68lb) per unit	0.22kg (0.49lb) per unit	0.4kg (0.88lb) per unit	0.333kg (0.73lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-10°C - 70°C (14°F - 158°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)
Power Requirements	24VDC 1A	5VDC 2A	24VDC 1.25A	24VDC 1A
	No. 38139	No. 38115	No. 38115	No. 38219



100M C6 HDBaseT 2.0 HDMI & USB KVM EXTENDER

HDMI
HDMI 2.0
10.2Gbps
100m (328.08ft)
3840x2160@60Hz 4:2:0 8bit
Pass-Through
Pass-Through
Pass-Through
30-60kHz
Pass-Through
RS232
HDBaseT
1 x Cat.5e/6
VS2310
PoC [Power over Cat.6]

HDMI (Female), IR (Female), 3.5mm Audio (Female), TOSLINK Audio (Female)
RJ45, TOSLINK Audio (Female)
RJ45, TOSLINK Audio (Female)
HDMI (Female), IR, 3.5mm Audio (Female), TOSLINK Audio (Female)
USB, 10/100 Ethernet, RS232
5.5/2.1mm DC socket

165x141x33mm (6.5x5.55x1.3in) per unit
Metal
0.525kg (1.16lb) per unit
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
24VDC 1A

No. 38209



100M C6 HDBaseT 4 PORT HDMI & IR SPLITTER EXTENDER

HDMI
HDMI 2.0
10.2Gbps
100m (328.08ft)
3840x2160@60Hz 4:2:0 8bit
1.2
Pass-Through
Pass-Through
33-50kHz
-
-
HDBaseT
4 x Cat.5e/6
VS100
-

HDMI (Female)
4 x RJ45 (Female), IR (Female)
-
-
-
5.5/2.5mm DC socket

440x152x47mm (17.32x5.98x1.85in)
Metal
1.65kg (3.64lb)
0°C - 40°C (32°F - 104°F)
-10°C - 70°C (14°F - 158°F)
12VDC 4A

No. 38116



100M C6 HDBaseT 8 PORT HDMI & IR SPLITTER EXTENDER

HDMI
HDMI 2.0
10.2Gbps
100m (328.08ft)
3840x2160@60Hz 4:2:0 8bit
1.2
Pass-Through
Pass-Through
33-50kHz
-
-
HDBaseT
8 x Cat.5e/6
VS100
-

HDMI (Female)
8 x RJ45 (Female), IR (Female)
-
-
-
5.5/2.5mm DC socket

440x152x47mm (17.32x5.98x1.85in)
Metal
1.95kg (4.3lb)
0°C - 40°C (32°F - 104°F)
-10°C - 70°C (14°F - 158°F)
12VDC 4A

No. 38117



100M C6 HDBaseT HDMI & IR RECEIVER

HDMI
HDMI 2.0
10.2Gbps
100m (328.08ft)
3840x2160@60Hz 4:2:0 8bit
Pass-Through
Pass-Through
Pass-Through
33-50kHz
Pass-Through
-
HDBaseT
1 x Cat.5e/6
VS100
-

-
-
RJ45 (Female), IR (Female)
HDMI (Female)
10/100 Ethernet
3.5/1.35mm DC socket

110x75x25mm (4.33x2.95x0.98in)
Metal
0.22kg (0.49lb)
0°C - 40°C (32°F - 104°F)
-10°C - 70°C (14°F - 158°F)
5VDC 2A

No. 38118

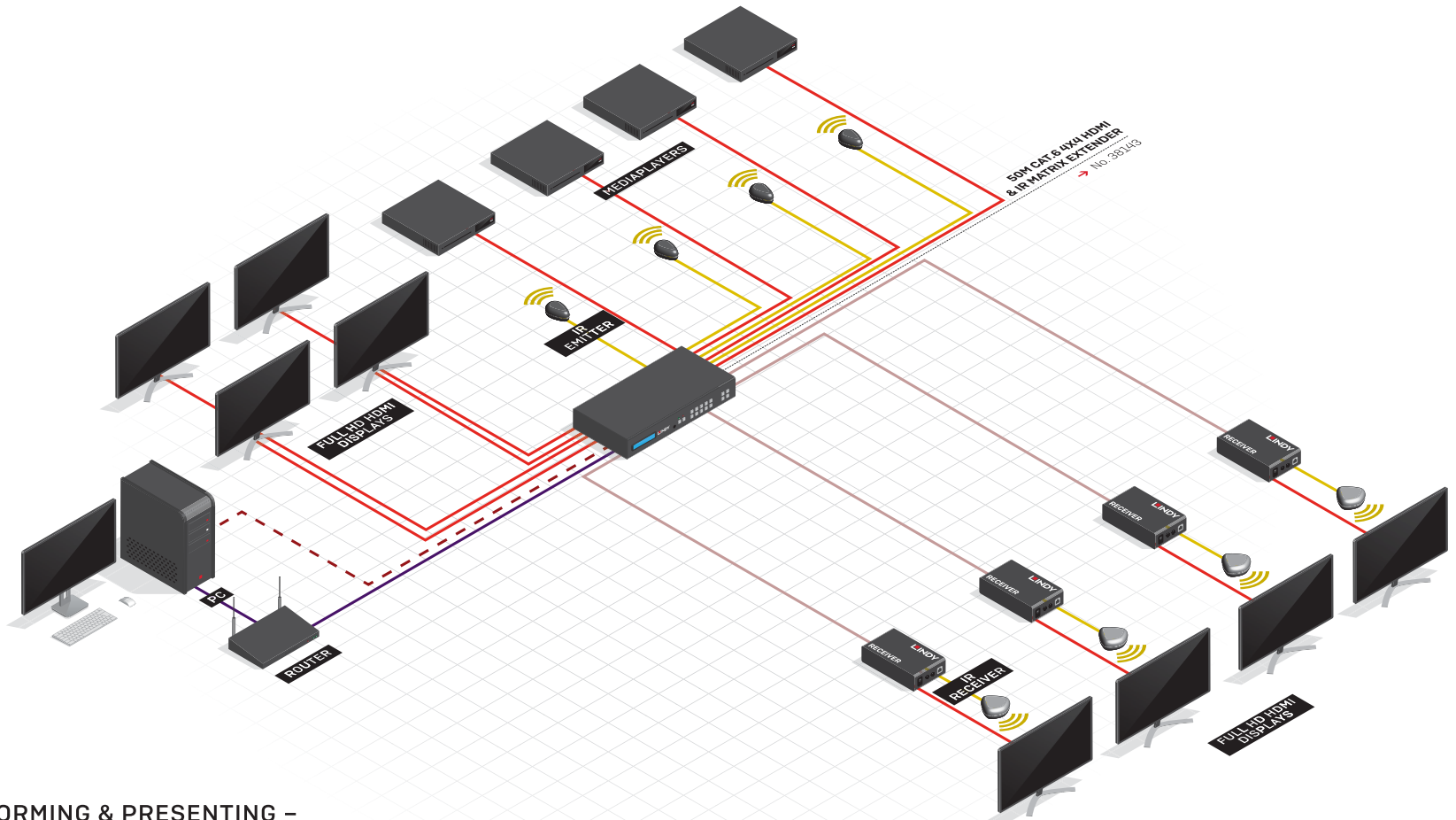
50M CAT.6 4x4 HDMI & IR
MATRIX EXTENDER
No. 38143

EXTENDER MATRIX

4x4 HDMI MATRIX CAT.6 EXTENDER

When it's necessary to simultaneously selecting different AV content and routing it to multiple displays at different locations, the best approach is a flexible configurable combination of matrix switch and extender. This HDMI Matrix Extender is perfect for this application. It combines two solutions in one: a matrix switch processor sends Full HD output signals from four source devices straight to the four integrated transmitters of the following Cat.6 extender. There is a receiver at each display for converting the transmitted signals back into HDMI format. In addition, each channel on the main unit has a separate HDMI port for a local display that mirrors the AV content at the outputs for control and monitoring. Switching is done over the network or RS232 port using an IR remote with included control software, or by pressing the buttons on the unit. The source devices in an equipment room can be controlled from the display using an IR remote. Ideal for digital out-of-home scenarios, centrally controlled retail presentations, training rooms or lecture halls when it is necessary to simultaneously show AV content on multiple displays.





INFORMING & PRESENTING – MULTI-CHANNEL TRAINING

When it's necessary to clearly present extremely complex information in a lecture hall, it can be beneficial to integrate several sources over different channels. The flexible, configurable matrix extender is optimally suited for applications of this kind.



**EXTRACTED ►
AUDIO FROM SOURCE OR ARC**

The audio signal can be taken right off the HDMI stream or obtained from the audio return channel (ARC) of the displays, for instance when using HDTV sets.



**▲ EVERYTHING UNDER CONTROL
CABLE PORTS ON THE BACK**

All of the controls are on the front and all cable ports on the back of the main unit. This permits practical integration in a side rack or operating console.



COPPER BASED HDMI CAT.6 EXTENDER

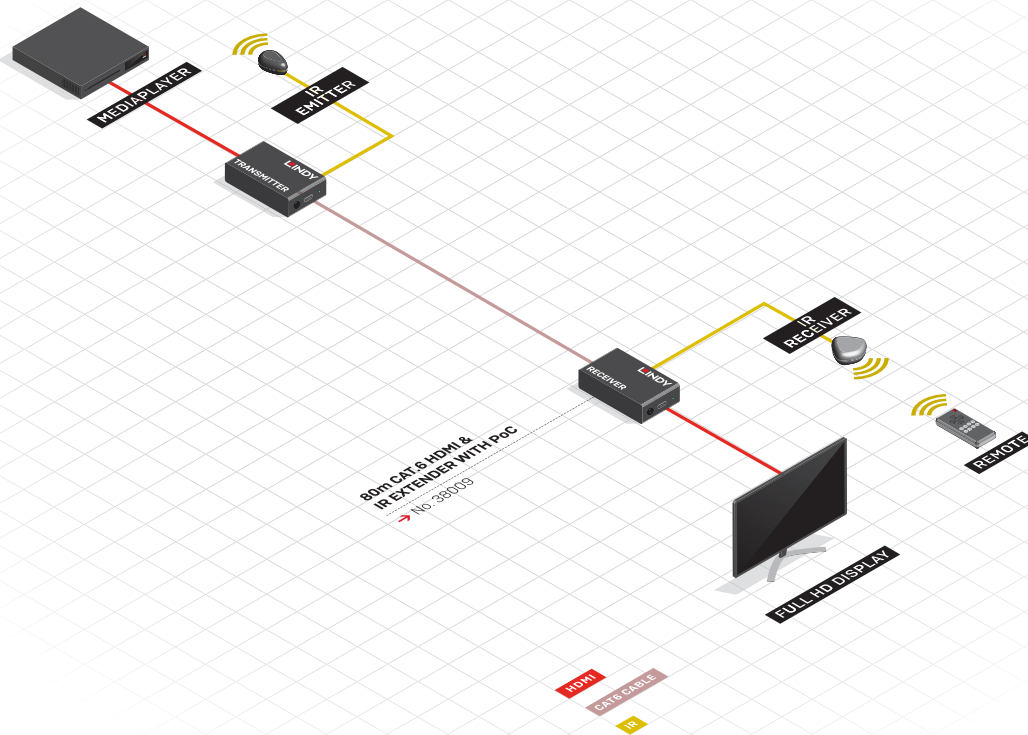
When it's necessary to transmit HDMI content over an intermediate distance from a source device to a display, normally the only options are fibre optics or, if no more than 25 metres are involved, low attenuation HDMI cable. Both are fairly costly.

Fortunately, the HDMI Cat.6 extender lets you avoid this dilemma and save money, as it is able to send Full HD content up to 80 metres over a standard Cat.6 cable. This means that existing cables in the building can be used without problem. Plus, PoC (Power over Cat) eliminates the need to install additional mains outlets for the receiver. Alternatively, if the source device is supposed to go where no power outlets are available but there are enough at the display, the transmitter can also be supplied via PoC.

A remote control signal from the source device also travels over the same line from the display.

INFORMING & PRESENTING – REMOTE ACCESS

For full remote access to the source device, this extender directly transmits control signals from the display to the source device. All standard remotes with a carrier frequency between 20 and 60kHz are supported. Ideal for retail or corporate presentations in shops, foyers and showrooms.



▲ SPACE SAVER AUDIO SIGNAL CONSERVED

This Cat.6 Extender is very compact, allowing it to be easily stowed behind any display. Its straightforward use and clearly structured, intuitive functions make it ideal for use in hectic retail markets or at trade fairs.



EXTEND EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR CAT.X RANGE



50M CAT.6 HDMI & IR EXTENDER WITH LOOP OUT

This ultra-low-profile extender is an easy to use plug & play solution for extending an HDMI compliant signal up to 50 metres over a single Cat. 6 cable. The Extender features an HDMI loop-through output on the transmitter with simultaneous viewing which allows a local display to be connected for monitoring or to create an additional viewing zone. For user friendly operation, the extender also sends IR signals for remotely controlling connected peripherals. PoC enables operation with a single mains adapter connected to the transmitter, which lets the receiver be installed anywhere whether or not a power outlet is available there. An integrated intelligent EDID clone mode consistently ensures the right resolution to maximise compatibility with connected target devices.

No. 38144



50M CAT.6 4 PORT HDMI & IR SPLITTER EXTENDER WITH LOOP OUT

This 1x4 splitter/extender is an efficient all-in-one solution for simultaneously distributing a high resolution HDMI compliant signal from a source to up to four receivers and connected target devices. The only other required item is a single Cat. 6 Ethernet cable for each of the receivers. The transmission distance to the receivers can be extended to a maximum of 50m. An integrated loop-out permits local monitoring or integration of an additional viewing zone. For larger installations, this port can also be used to cascade through three additional levels for connecting up to a total of 12 screens. Also included are automatic EDID monitor emulation with 9 presets, a bidirectional IR control signal and a power-on-clear (PoC) function for operating with a single mains adapter. The unit's ultra low profile design and supplied brackets facilitate straightforward, neat installation in cramped environments or behind displays.

No. 38155



70M CAT.6 DVI-D SINGLE LINK EXTENDER

This set, comprising a transmitter and receiver, extends a single-link DVI signal with a maximum resolution of 800x600p at 60Hz as far as 70 metres over a Cat. 5 or 6 Ethernet cable or up to 50m at up to 1920x1200p including Full HD. The transmitter receives power directly via the DVI port. In case that isn't enough, a standard USB Micro-B cable can be used to provide power. Without requiring any additional settings or programming, the extender set is a convenient plug & play solution for delivering high quality DVI video signals in any point-to-point AV application.

No. 38300



**300M CAT.5E VGA & AUDIO
 EXTENDER**

This set uses a single Cat. 5 or 6 Ethernet cable to extend high resolution HDTV signals from a VGA source over distances of up to 300m. It supports resolutions up to 1920x1200p, including 1600x1200p, at 60Hz. It also transmits audio signals while ensuring crystalclear sound alongside the VGA signal. Signal amplification can be easily adjusted to supply faraway target devices with the desired quality. The image sharpness is also adjustable using an integrated regulator. Skew compensation units can be optionally deployed to correct any colour distortion caused by the late arrival of one or more of the RGB signals.

No. 32540



**150M CAT.5 SPDIF TOSLINK
 EXTENDER**

This digital audio extender extends the reach of digital SPDIF and TOSLINK audio signals by up to 150 metres over a Cat. 5 or 6 Ethernet cable. It supports either digital SPDIF or TOSLINK signals used to transmit stereo or multi-channel audio streams (like Dolby Digital or DTS) between different source and target devices. The input signal is sent bit by bit in real time without compression or sound distorting conversion. Power can be supplied by a mains adapter or USB cable; it doesn't matter whether this is done at the transmitter or receiver, as the other unit is powered via the Ethernet cable. The extender boasts a compact design that makes it ideal for professional audio installations with digital audio feeds of all kinds, also when there are space constraints.

No. 70466

THE MOST COMPREHENSIVE PORTFOLIO: THE CAT.X RANGE

Choose from our comprehensive product portfolio for extending AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	50M CAT.6 HDMI & IR EXTENDER WITH LOOP OUT	80M CAT.6 HDMI & IR EXTENDER WITH PoC	50M CAT.6 4 PORT HDMI & IR SPLITTER EXTENDER WITH LOOP OUT	
AV Interface	HDMI	HDMI	HDMI	
Interface Standard	HDMI 1.4	HDMI 1.3	HDMI 1.3	
Supported Bandwidth	4.95Gbps	4.95Gbps	4.95Gbps	
Maximum Distance	50m [164.04ft]	50m [164.04ft] - 1920x1080@60Hz 4:4:4 8bit Cat.5e 80m [262.46ft] - 1280x720@60Hz 4:4:4 8bit Cat.5e 80m [262.46ft] - 1920x1080@60Hz 4:4:4 8bit Cat.6 100m [328.08ft] - 1280x720@60Hz 4:4:4 8bit Cat.6	50m [164.04ft] - 1920x1080@60Hz 4:4:4 8bit	50m [164.04ft] - 1920x1080@60Hz 4:4:4 8bit Cat.6
Maximum Resolution	1920x1080@60Hz 4:4:4 8bit	1920x1080@60Hz 4:4:4 8bit	1920x1080@60Hz 4:4:4 8bit	
HDCP Support	1.1	1.1	1.2	
EDID Pass Through	Cloning Function	Pass-Through	Preset, Cloning Function	
Supported Audio	Up to 7.1 (Pass-Through)	Up to 7.1 (Pass-Through)	Up to 7.1 (Pass-Through)	
IR Support	20-60 kHz	20-60 kHz	20-60 kHz	
Transmission Protocol	1 x Cat.6	1 x Cat.6	1 x Cat.6 (per receiver)	
Special Features	Local HDMI Output PoC (Power over Cat.6 Cable)	PoC (Power over Cat.6 Cable) Bi-directional IR	PoC (Power over Cat.6 Cable)	
CONNECTORS				
Transmitter Input	HDMI (Female)	HDMI (Female), IR (Female)	HDMI (Female)	
Transmitter Output	RJ45 (Female), HDMI (Female), IR (Female)	RJ45 (Female), IR (Female)	4 x RJ45 (Female), HDMI (Female), IR (Female)	
Receiver Input	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	
Receiver Output	HDMI (Female)	HDMI (Female), IR (Female)	HDMI (Female)	
Bidirectional Ports	-	-	-	
Power	5.5/2.1mm DC socket	5.5/2.5mm DC socket	5.5/2.1mm DC socket	
PHYSICAL PROPERTIES				
Dimensions (approx.) WxDxH	57x67x16mm [2.24x2.64x0.63in] per unit	100x65x26mm [3.94x2.56x1.02in] per unit	Transmitter: 210x83x17mm [8.27x3.27x0.67in] Receiver: 79x68x17mm [3.11x2.68x0.67in] (per unit)	
Housing Material	Metal	Metal	Metal	
Net Weight	0.203kg [0.45lb] per unit	0.235kg [0.52lb] per unit	Transmitter: 0.443kg [0.98lb] Receiver: 0.131kg [0.29lb] per unit	
Operating Temperature	0°C - 40°C [32°F - 104°F]	0°C - 40°C [32°F - 104°F]	0°C - 40°C [32°F - 104°F]	
Storage Temperature	-20°C - 60°C [-4°F - 140°F]	-20°C - 60°C [-4°F - 140°F]	-20°C - 60°C [-4°F - 140°F]	
Power Requirements	5VDC 1A	12VDC 1A	12VDC 2.5A	
	No. 38144	No. 38009	No. 38155	



50M CAT.6 4X4 HDMI & IR MATRIX EXTENDER

HDMI
HDMI 1.4
4.95Gbps
50m (164.04ft) - 1920x1080@60Hz 4:4:4 8bit Cat.6
1920x1080@60Hz 4:4:4 8bit
1.3
Preset, Cloning Function
Up to 7.1 (Pass-Through)
20-60 kHz
1 x Cat.6 (per receiver)
RS232 & Telnet Control, Bi-directional IR, Mirrored HDMI Outputs

4 x HDMI (Female), 5 x IR (Female)
4 x RJ45 (Female), 4 x HDMI (Female), 4 x IR (Female)
RJ45 (Female), IR (Female)
HDMI (Female), IR (Female), Coaxial (Female)
Telnet RJ45 (Female), RS232 9D
5.5/2.1mm DC socket

Transmitter: 440x200x45mm (17.32x7.87x1.77in) Receiver: 65x100x25mm (2.56x3.94x0.98in)
Metal
Transmitter: 2.436kg (5.37lb) Receiver: 0.2kg (0.44lb) per unit
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
Transmitter: 12VDC 2.5A, Receiver: 5VDC 1A

No. 38143

70M CAT.6 DVI-D SINGLE LINK EXTENDER

DVI-D
DVI-D 1.1 (Single Link)
4.95Gbps
70m (229.66ft) - 800x600@60Hz 50m (164.04ft) - 1920x1200@60Hz
1920x1200@60Hz
-
-
-
-
1 x Cat.5e or Cat.6
-

DVI-D (Male)
RJ45 (Female)
RJ45 (Female)
DVI-D (Male)
-
USB Micro-B socket

55x40x22mm (2.17x1.57x0.87in) per unit
Plastic
0.03kg (0.07lb) per unit
0°C - 55°C (32°F - 131°F)
-20°C - 85°C (-4°F - 185°F)
5VDC <320mA (TX)

No. 38300

300M CAT.5E VGA & AUDIO EXTENDER

VGA
-
-
300m (984.24ft)
1920x1200@60Hz
-
-
-
Analogue (Mono)
-
1 x Cat.5e
Peak & Gain control, local VGA output

VGA (Female), 3.5mm (Female)
RJ45 (Female), VGA (Female), 3.5mm (Female)
RJ45 (Female)
VGA (Female), 3.5mm Audio (Female)
-
3.5/1.35mm DC socket

Transmitter: 100x65x26mm (3.94x2.56x1.02in) Receiver: 82x43x23mm (3.23x1.69x0.91in)
Metal
Transmitter: 0.140 kg (0.31lb) Receiver: 0.110 kg (0.24lb)
0°C - 70°C (32°F - 158°F)
-10°C - 80°C (14°F - 176°F)
5VDC 1A

No. 32540

150M CAT.5 SPDIF TOSLINK EXTENDER

SPDIF
-
-
150m (492.12ft)
-
-
-
LPCM, Dolby Digital, DTS
-
1 x Cat.6
PoC (Power over Cat.6 Cable)

TOSLINK Optical (Female), RCA Coaxial (Female)
RJ45 (Female)
RJ45 (Female)
TOSLINK Optical (Female), RCA Coaxial (Female)
-
5.5/2.1mm DC socket

70x50x22mm (2.76x1.97x0.87in) per unit
ABS
0.05kg (0.11lb)
0°C - 45°C (32°F - 113°F)
-20°C - 60°C (-4°F - 140°F)
5VDC 1A

No. 70466

AN IDEAL MIX

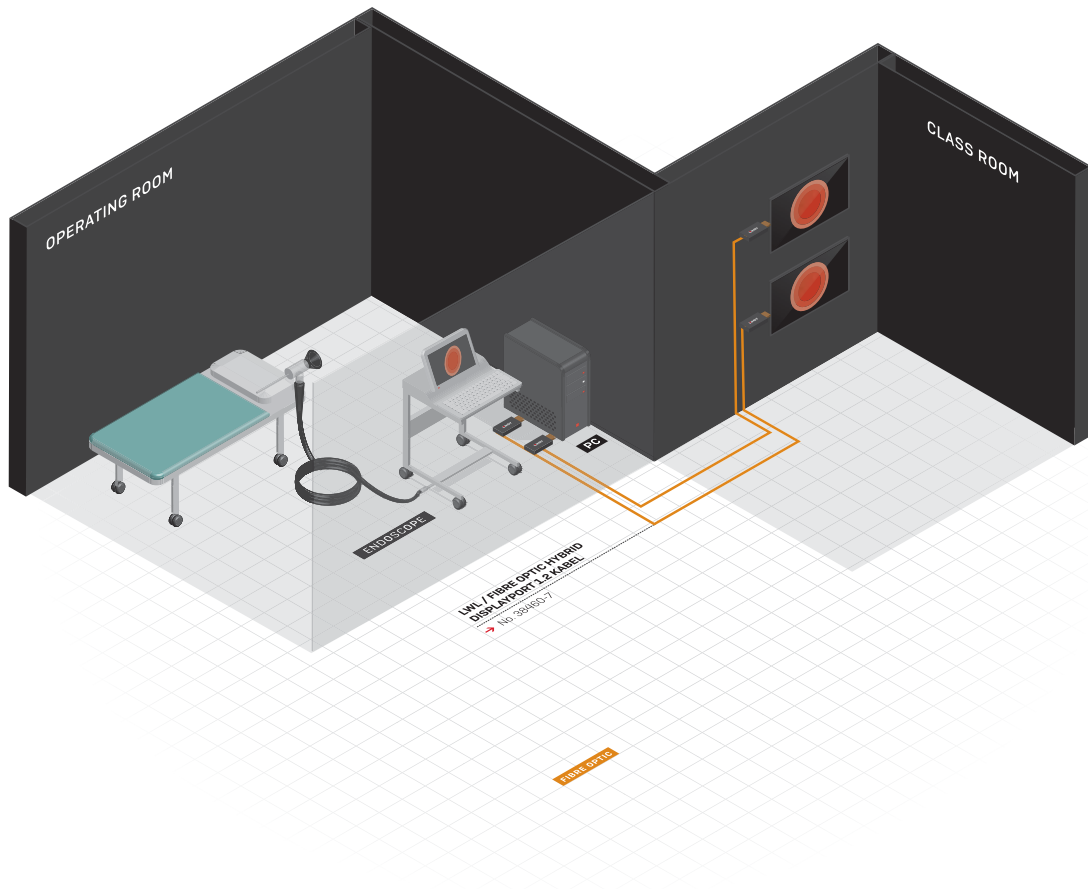
DP 1.2 FIBRE OPTIC HYBRID CABLE

Lossless transmission of 4K content calls for high quality manufacturing and precision.

This DisplayPort Hybrid Cable boasts an ingenious cable design: the less-demanding control and sync signals flow through shielded copper conductors, while the bandwidth hungry AV content arrives via optical fibres. The technology for converting to and from light signals is integrated in the connectors, highly compressed to occupy a minimum amount of space. A slimline copper and optical fibre construction permits installation where space is at a premium, for example beneath the ceiling for suspended projectors or in the narrow gap between a display and the wall. The inherently very low radiation values and resistance to EMI and RF interference of fibre optic transmission, plus the fact that these cables come in lengths between 10 and 100 metres, make them ideal for AV installations in sensitive environments such as hospitals and industrial facilities.

DP 1.2 FIBRE OPTIC HYBRID CABLE
No. 38460-38467





**LOW RADIATION AND RESISTANT ▲
INTERFERENCE FREE DP TRANSMISSION**

The fibre optic technology used in this hybrid cable for transmitting high frequency AV signals minimises radiation while conferring extreme resistance to radiation and EMI. It is therefore ideally suited for use in sensitive environments such as hospitals and industrial facilities.

**▼ PROTECTED FROM CORROSION
GOLD PLATED CONNECTORS**

Gold plated connectors enable this hybrid cable to withstand aggressive industrial environments, e.g. for displays at production lines and in CNC control booths.





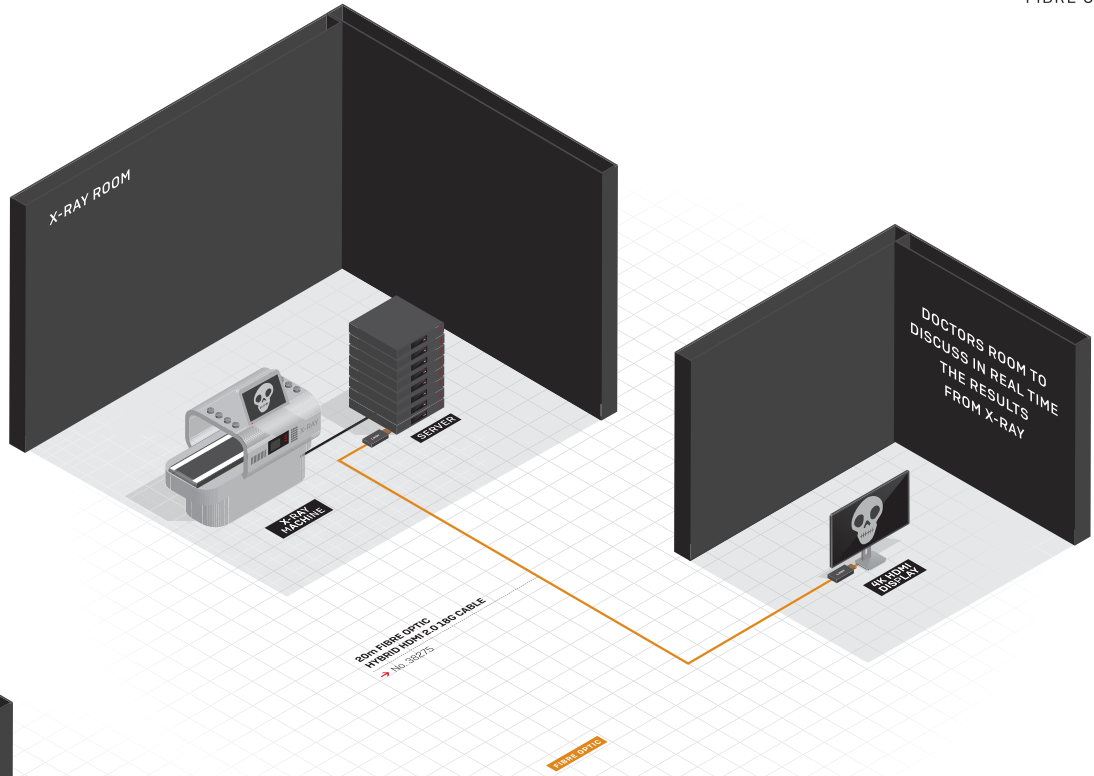
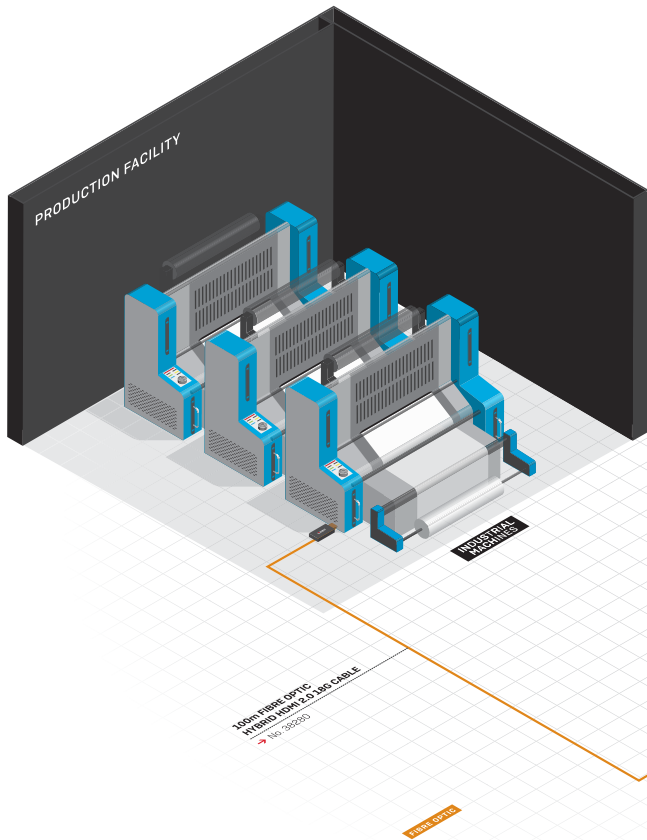
FIBRE OPTIC HYBRID HDMI 2.0 18G CABLE
No. 38274-38280

4K OVER OPTICAL FIBRE HYBRID FIBRE OPTIC HDMI 2.0 CABLE

It takes expertise to manufacture a transmission line with the required precision and technical properties for 4K content with a 4:4:4 colour space at 60Hz. Hybrid cables split the HDMI signal into two parts: the AV content itself, which is sent over optical fibres with a bandwidth of 18Gbps, and the far less capacity hungry control signals, for which copper conductors are quite adequate. The technology for compressing and converting the AV signals for fibre optics is contained in the cable's connectors, which receive power via USB plugs at the display end. Thanks to this combined copper and optical fibre construction, which boasts extremely low levels of electromagnetic radiation and high resistance to EMI and RF, and the fact that the cables come in lengths between 10 and 100 metres, they are ideal for use as system components in industrial and medical environments etc.

▼ FIT FOR INDUSTRY 4.0
ROBUST DESIGN

Thanks to the use of robust, corrosion resistant materials such as zinc alloys for the connectors, this hybrid cable easily withstands harsh industrial environments, for example for connecting displays at production lines and in CNC control booths.



▲ LOW-INTERFERENCE HDMI CONNECTION
LOW RADIATION, EMI RESISTANT

Fibre optic technology makes this hybrid cable for high frequency AV signals extremely EMI resistant and low radiation. It is therefore ideally suited for use in sensitive environments such as medical technology or industrial plants.



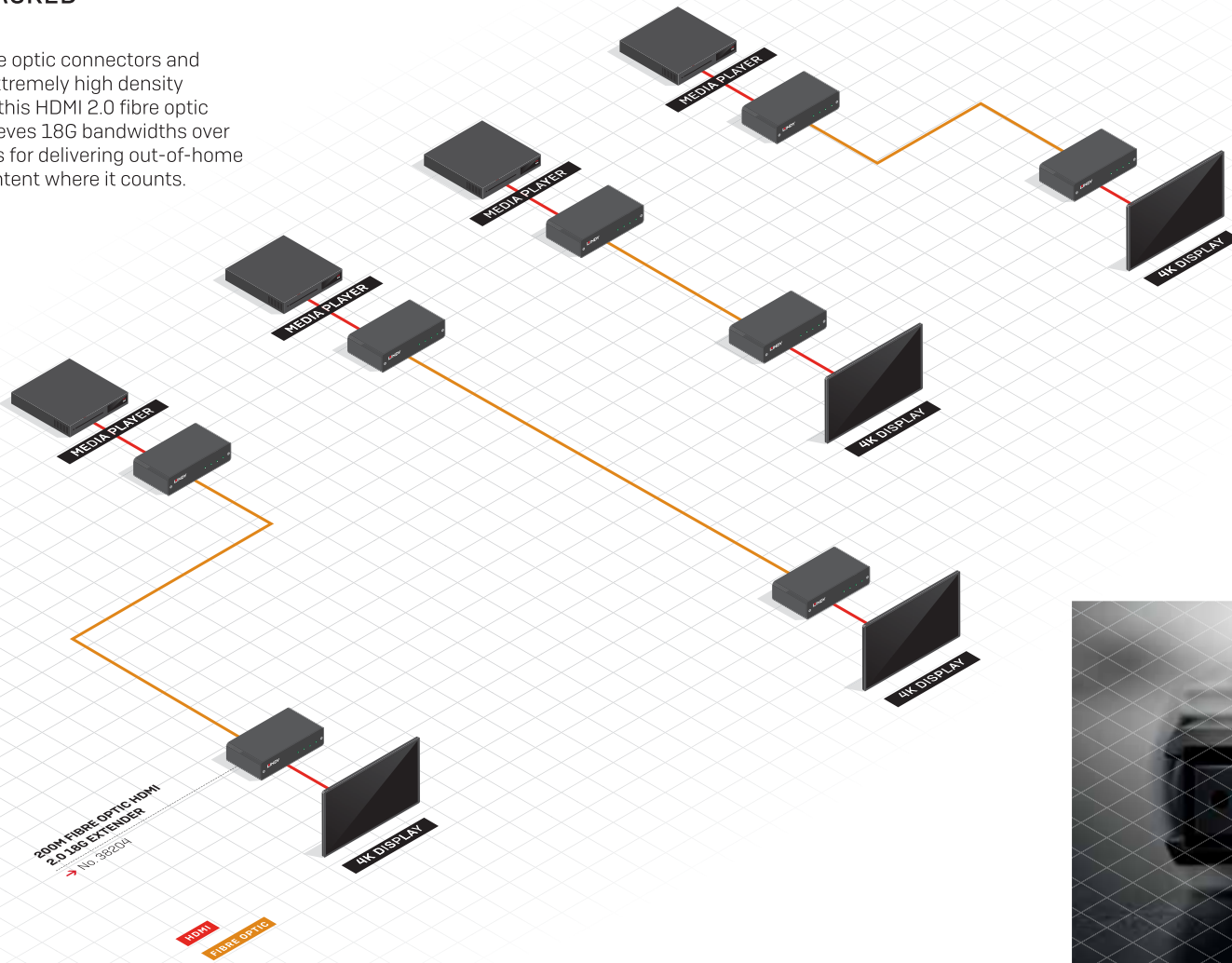
200M FIBRE OPTIC HDMI 2.0 18G EXTENDER
No. 38204

PARALLEL LIGHT SIGNALS 18G HDMI 2.0 FIBRE OPTIC EXTENDER

Long distance transmission of HDMI 2.0 AV content calls for a technology with enough bandwidth to carry 18Gbps, and only fibre optic technology is up to the challenge. The HDMI 2.0 Fibre Optic Extender elegantly solves the bandwidth problem with MPO cables. These contain 12 separate fibres running in parallel and are terminated with high density MPO connectors that tightly pack the 12 ends together, thus ensuring lossless transmission of resolutions up to 3840x2160@60Hz with a colour space of 4:4:4 and 8 bit colour depth over distances up to 200m. It is just as transparent to HDCP encrypted signals as a cable and therefore not subject to any restrictions in respect of copy protected content. The extender is therefore perfectly suited for distributing 4K AV content within large environments.

INFORMING & PRESENTING – POWER PACKED

Thanks to fibre optic connectors and cables with extremely high density construction, this HDMI 2.0 fibre optic extender achieves 18G bandwidths over long distances for delivering out-of-home marketing content where it counts.



EXTEND EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR FIBRE OPTIC RANGE



300M/450M FIBRE OPTIC HDMI 2.0 10.2G EXTENDER

This HDMI 2.0 compliant extender transmits video and audio signals over a single LC duplex multi-mode optical fibre cable. An optional extension kit also makes it possible to feed IR control signals to the receiver and output them at the transmitter for remotely controlling source devices. The extender carries HDCP encrypted content over a distance of up to 300m, and unencrypted content as far as 450m. The use of fibre optic transmission enables unbeatable quality for lossless HDMI video signals with resolutions up to 4K UHD at 60Hz with a colour space of 4:2:0 with 8 bits of colour depth, including 3D (1080p). The unit's compact design and ease of use make it straightforward to install in space critical environments.

No. 38163



300M FIBRE OPTIC HDMI 2.0 10.2G EXTENDER

This extender has been specifically designed for applications that call for secure, reliable extension of HDMI compliant digital signals over long distances up to 300m. The extender and receiver are linked by an LC duplex multi-mode cable. The extender itself is designed as an easily installed, removable plug to flexibly meet any requirement. It's ideal for both mobile and fixed installations and, thanks to its extremely compact, robust design, is also optimally suited for use in harsh environments. The extender supports resolutions up to 4K UHD at 60Hz and a 4:2:0 colour space with 8 bits of colour depth, including 3D (1080p) and support for all Dolby TrueHD and DTS-HD Master Audio formats. Communication of EDID and HDCP data between the source and display ensures direct device compatibility and optimal signal transmission.

No. 38170



700M/3000M FIBRE OPTIC HDMI 2.0 10.2G EXTENDER

This extender transports HDMI compliant video, multichannel audio and IR control signals over optical fibre cables as long as 700m with 4K UHD at 60Hz and a 4:2:0 colour space with 8 bits of colour depth, including 3D (1080p). When transmitting non-HDCP encrypted signals, the maximum distance can be increased to 3000m. Thanks to simultaneous transmission of CEC signals, the source device can be remotely controlled via the target device without direct visual contact. EDID pass-through sends the required resolutions and refresh frequencies straight from the display to the source device's video card to ensure precisely the right video attributes for the target device. The extender's robust fibre optic connection and consistently reliable signal transmission make it the ideal solution for professional surveillance, large format display or video conferencing applications.

No. 38063



200M FIBRE OPTIC DISPLAYPORT 1.2 EXTENDER

Comprising a transmitter and receiver, this extender set permits the transmission of digital DisplayPort 1.2 video and audio signals. Only a single MPO fibre optic cable is required for transmission across a maximum distance of 200m. 4K UHD resolutions at 60Hz and a 4:4:4 colour space with ten bits of colour depth are supported. For seamless integration and dependable extension of a source signal to different displays, the receiver features DPCP, EDID and audio pass-through. It also supports MST (Multi-Stream Transport) and HBR3, which also makes it suitable for MST hubs and multi-screen transmission. As signals are sent over electrically isolated optical fibres where they are safe from unauthorised access and external interference, this technology is especially popular for government, military and medical applications.

No. 38403



1500M FIBRE OPTIC DVI-D SINGLE LINK EXTENDER

This extremely flexible, easy to install DVI-D single link extender set transmits signals from a source to a DVI display via a single-mode fibre optic cable up to 1500m long. An LC multi-mode duplex cable is sufficient for distances up to 500m. Designed as a removable plug-in unit, the extender greatly facilitates installation and cable management and is therefore a great choice for space critical applications and temporary installations as it can be quickly and easily replaced without laying a new cable. It supports HDTV resolutions up to 1920x1200@60Hz including Full HD. The extender's versatility makes it ideal for monitoring remote DVI displays in a wide range of medical and industrial applications.

No. 38113



750M FIBRE OPTIC VGA & AUDIO EXTENDER

This extender extends high resolution VGA and audio signals across long distances up to 750m using two LC OM3 duplex multi-mode fibre optic cables or 500m with two LC OM2 duplex multi-mode fibre optic cables. Developed to perform reliably with pixel perfect transmission, this AV system is ideally suited for applications involving analogue source and target devices with resolutions up to 1920x1080@60Hz. The LED displays on the front make it easy to monitor its status in real time for troubleshooting and monitoring. The transmitter unit features a VGA loop-through port which allows the use of a local display without the need for additional hardware. Perfect for simple analogue point to point applications in a wide range of AV environments.

No. 32541

THE MOST COMPREHENSIVE PORTFOLIO: THE FIBRE OPTIC RANGE

Choose from our comprehensive product portfolio for extending AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	300M/450M FIBRE OPTIC HDMI 2.0 10.2G EXTENDER	300M FIBRE OPTIC HDMI 2.0 10.2G EXTENDER	FIBRE OPTIC HYBRID HDMI 2.0 18G CABLE	200M FIBRE OPTIC HDMI 2.0 18G EXTENDER
AV Interface	HDMI	HDMI	HDMI	HDMI
Interface Standard	HDMI 1.4	HDMI 1.4	HDMI 2.0	HDMI 2.0
Supported Bandwidth	10.2Gbps	10.2Gbps	18Gbps	18Gbps
Maximum Distance	300m (984.24ft) HDCP 450m (1476.36ft) non-HDCP	300m (984.24ft)	-	200m (656.16ft)
Maximum Resolution	3840x2160@60Hz 4:2:0 8bit	3840x2160@60Hz 4:2:0 8bit	4096x2160@60Hz 4:4:4 8bit	3840x2160@60Hz 4:4:4 8bit
HDCP Support	Pass-Through	Pass-Through	Pass-Through	Pass-Through
EDID Pass Through	Pass-Through	Pass-Through	Pass-Through	Pass-Through
Supported Audio	Pass-Through	Pass-Through	Pass-Through	Pass-Through
IR Support	36-56kHz	-	-	-
CEC Support	Pass-through	-	-	Pass-through
Transmission Protocol	1 x Duplex LC (50/125µm)	1 x Duplex LC (50/125µm)		1 x MPO (50/125µm)
Laser Class (only for Fibre)	1	1	1	1
Wavelength (only for Fibre)	850/1310/1450/1550nm	850nm	850nm	850nm
Special Features	Auto Laser Disabling Function	Auto Laser Disabling Function	Auto Laser Disabling Function	Auto Laser Disabling Function
CONNECTORS				
Transmitter Input	HDMI (Female), IR (Female)	HDMI (Male)	HDMI (Male)	HDMI (Female)
Transmitter Output	Duplex LC	Duplex LC	-	MPO
Receiver Input	Duplex LC	Duplex LC	-	MPO
Receiver Output	HDMI (Female), IR (Female)	HDMI (Male)	HDMI (Male)	HDMI (Female)
Power	5.5/2.1mm DC Socket	USB Micro-B	-	3.5/1.35mm DC socket
PHYSICAL PROPERTIES				
Dimensions (approx.) WxDxH	107x75x29mm (4.21x2.95x1.14in) per unit	75x20x12mm (2.95x0.79x0.47in) per unit	55x17x0.9mm (2.17x0.67x0.04in)	140x74x30mm (5.51x2.91x1.18in) per unit
Housing Material	Metal	Plastic	Plastic	Metal
Net Weight	0.3kg (0.66lb) per unit	0.048kg (0.11lb) per unit	-	0.395kg (0.87lb) per unit
Operating Temperature	0°C - 50°C (32°F - 122°F)	0°C - 60°C (32°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	0°C - 60°C (32°F - 140°F)
Storage Temperature	-20°C - 70°C (-4°F - 158°F)	-10°C - 70°C (14°F - 158°F)	-20°C - 70°C (-4°F - 158°F)	-20°C - 75°C (-4°F - 167°F)
Power Requirements	5VDC 2.6A	-	-	5VDC 3A
	No. 38163	No. 38170	No. 38274 - 38280 (10m-100m)	No. 38204



**700M/3000M FIBRE OPTIC
HDMI 2.0 10.2G EXTENDER**

HDMI
HDMI 1.4
10.2Gbps
700m (2296.56ft) HDCP 3000m (9842.4ft) non-HDCP
3840x2160@60Hz 4:2:0 8bit
Pass-Through
Pass-Through
Pass-Through
36-56kHz
Pass-through
1 x Duplex LC (9/125µm)
1
850/1310/1450/1550nm
Auto Laser Disabling Function

**200M FIBRE OPTIC
DISPLAYPORT 1.2 EXTENDER**

DisplayPort
DisplayPort 1.2
21.6Gbps
200m (656.16ft)
3840x2160@60Hz 4:4:4 10bit
Pass-Through
Pass-Through
Pass-Through
-
-
1 x MPO (50/125µm)
1
850nm
Auto Laser Disabling Function

**1500M FIBRE OPTIC
DVI-D SINGLE LINK EXTENDER**

DVI-D
DVI-D 2.0 (Single Link)
4.95Gbps
500m (1640.4ft) - 1x LC Duplex (50/125µm) 1500m (4921.2ft) - 1x LC Duplex (9/125µm)
1920x1200@60Hz
-
-
-
-
-
1 x Duplex LC (50/125µm / 9/125µm)
1
1310/1550nm
Self-EDID learning

**750M FIBRE OPTIC
VGA & AUDIO EXTENDER**

VGA
-
-
750m (2460.6ft) OM3 500m (1640.4ft) OM2
1920x1080@60Hz
-
Pass-Through
Pass-Through
-
-
-
2 x Duplex LC (50/125µm)
1
850nm
Auto Laser Disabling Function

**DP 1.2 FIBRE-OPTIC
HYBRID CABLE**

DisplayPort
DisplayPort 1.2
21.6Gbps
-
4096x2160@60Hz 4:4:4 10bit
-
-
Pass-Through
-
-
-
-
-
-
-
-

HDMI (Female), IR (Female)

Duplex LC

Duplex LC

HDMI (Female), IR (Female)

5.5/2.1mm DC socket

DisplayPort (Female)

MPO

MPO

DisplayPort (Female)

3.5/1.35mm DC socket

DVI-D (Male)

Duplex LC (Female)

Duplex LC (Female)

DVI-D (Male)

3.5/1.35mm DC socket

VGA (Female), 3.5mm (Female)

2 x Duplex LC, VGA (Audio)

2 x Duplex LC

VGA (Female), 3.5mm (Female)

3.5/1.35mm DC socket

DisplayPort (Male)

-

-

DisplayPort (Male)

-

107x75x29mm [4.21x2.95x1.14in]
per unit

Metal

0.3kg [0.66lb] per unit

0°C - 70°C [32°F - 158°F]

-20°C - 70°C [-4°F - 158°F]

5VDC 2.6A

No. 38063

140x74x30mm [5.51x2.91x1.18in] per unit

Metal

0.395kg [0.87lb] per unit

0°C - 60°C [32°F - 140°F]

-20°C - 75°C [-4°F - 167°F]

5VDC 3A

No. 38403

40x70x15mm [1.57x2.76x0.59in] per unit

Metal

0.1kg [0.22lb] per unit

0°C - 50°C [32°F - 122°F]

-20°C - 65°C [-4°F - 149°F]

5VDC <400mA per unit

No. 38113

140x74x30mm [5.51x2.91x1.18in] per unit

Metal

0.25kg [0.55lb] per unit

0°C - 70°C [32°F - 158°F]

-20°C - 85°C [-4°F - 185°F]

5VDC 3A

No. 32541

20.8x48x13mm [0.82x1.89x0.51in]

Metal

0.48kg [1.06lb]

0°C - 50°C [32°F - 122°F]

-20°C - 70°C [-4°F - 158°F]

-

No. 38460 - 38467

HDMI, USB, RS232 &
IR OVER GIGABIT IP EXTENDER
No. 38066 & 38067

MULTICAST EXTENDER

HDMI OVER IP

Modern digital signage, KVM and AV extension environments pose enormous requirements in terms of transmission quality and flexibility. These HDMI over IP extenders deliver a flexible scalable solution that takes advantage of the IP network infrastructure which is often already in place.

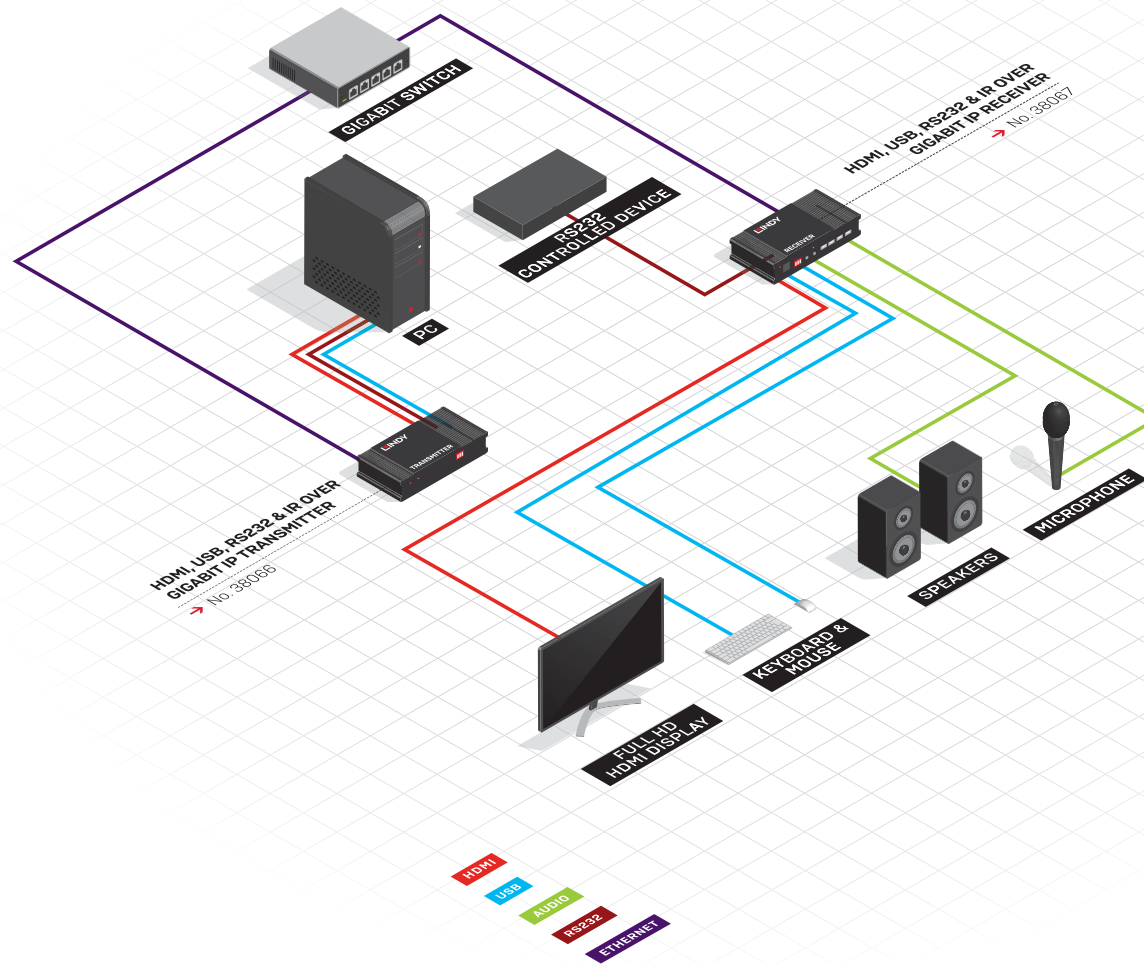
AV content with Full HD, USB, RS232 and audio can easily be sent from a computer to any other location in the building. Or in one-to-many mode to up to 256 receivers per transmitter and 16 transmitters per network.

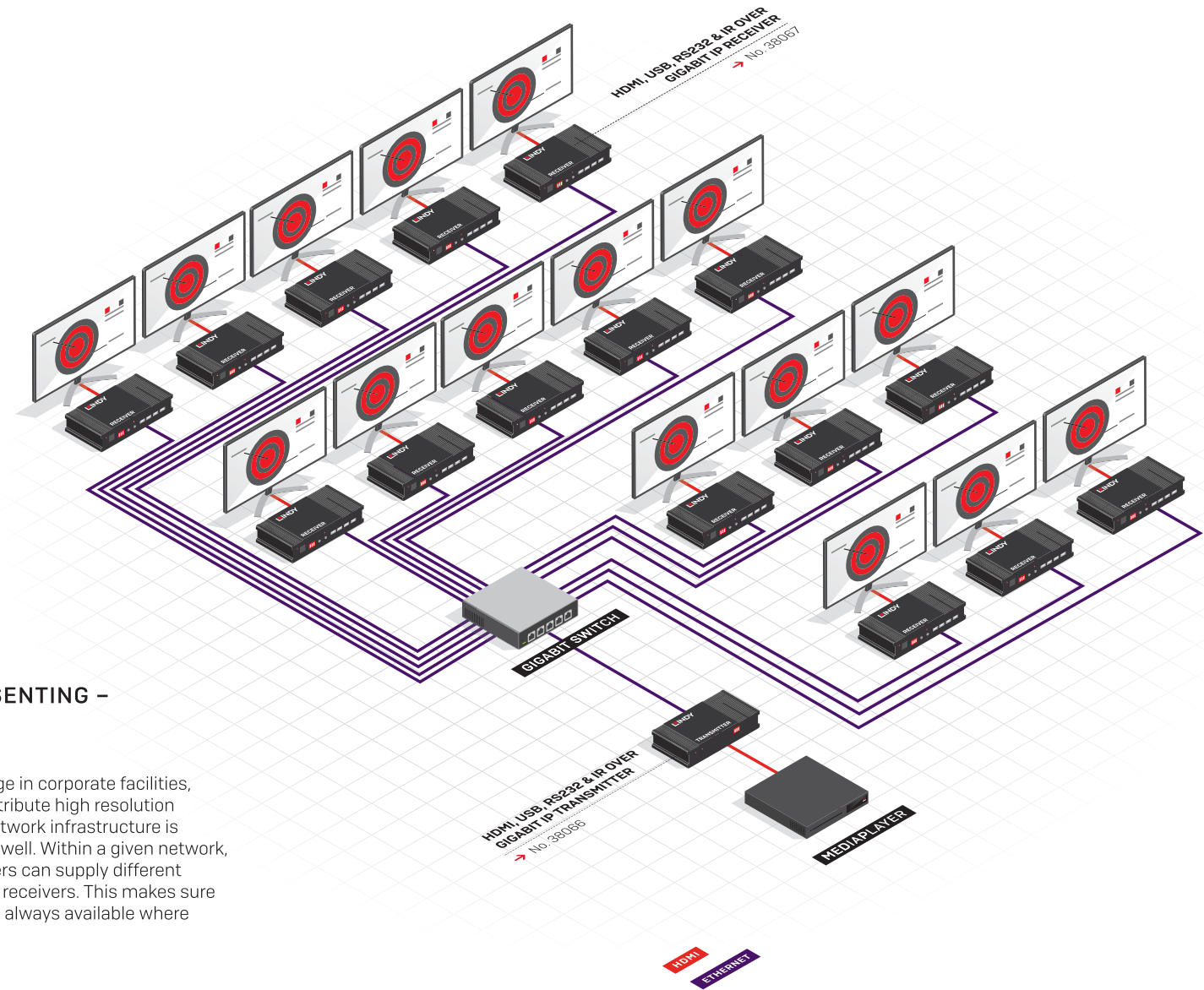
In conjunction with dedicated gigabit switches that are interconnected by, for example, fibre optic cables, digital signage content can be distributed building wide or even across entire corporate premises.



COOPERATION – ONE TO ONE

An entire remote workplace, including USB, audio, IR and RS232 connections, can be set up over an IP network. Ideal for computers that must be accommodated in restricted access rooms for confidentiality reasons or to avoid endangering industrial processes.





INFORMING & PRESENTING – ONE TO MANY

To implement digital signage in corporate facilities, it's necessary to widely distribute high resolution AV content. The existing network infrastructure is predestined for this role as well. Within a given network, each of up to 16 transmitters can supply different content to as many as 256 receivers. This makes sure that relevant information is always available where it is needed.

EXTEND EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR IP RANGE



4K HDMI & USB OVER IP EXTENDER

This extender system enables high performance 4K HDMI over IP signal distribution using a single Cat. X cable in a standard gigabit IP networking environment. Resolutions up to 3840x2160 at 60Hz in 8bit 4:2:0 format are supported. It also features a VGA interface for extending lower resolution analogue signals up to 1920x1200 at 60Hz with quick and easy scaling to accommodate modern target devices. USB devices such as a keyboard and mouse can be connected via the USB ports on the RX to create a remote KVM console for controlling a local computer. Besides HDMI embedded audio signals, the system features standalone analogue audio channels and an optical SPDIF output on the RX unit for de-embedding HDMI audio, e.g. for connecting a digital audio amplifier. Another feature is bidirectional routing of serial RS232 connections for controlling and monitoring industrial applications. Point-to-point connections are possible at distances of up to 100m, and much farther via network equipment. With a VLAN or dedicated network, point-to-multipoint connections can be implemented by deploying multiple RX units. This makes it possible to control a single source device from different consoles or create a video wall spanning 16x16 displays. The system can therefore be used to extend and distribute digital HDMI signals to any number of displays for use in large, complex commercial or industrial environments, e.g. for managing security systems or remotely administering servers (KVM) at virtually any distance.

No. 38266 – Transmitter

No. 38267 – Receiver



HDMI & IR OVER 100BASET IP EXTENDER

This low profile set is an easy-to-use solution for extending, distributing and administering an HDMI audio/visual signal via an existing IP network environment. It facilitates professional point-to-point or, by integrating a gigabit switch (or using VLAN-based network segmentation) point-to-multipoint or multipoint-to-multipoint configurations. Cascading through up to three layers is possible, allowing the receivers to which displays or projectors are connected to be widely spaced within the network environment. The HDMI signal is transmitted with a maximum resolution of Full HD [1920x1080p at 60Hz with a 4:4:4 colour space and 8bit colour depth] including digital audio signals. Thanks to the receiver's integrated IR input port, source devices can be controlled with an IR remote. More receivers can be added to scale up the set at any time, making it the ideal solution for larger environments in which flexibility and efficient use of space are key factors.

No. 38126 – HDMI & IR over 100BaseT IP, Extender

No. 38129 – HDMI & IR over 100BaseT IP, Receiver

IMAGINE AN IP NETWORK AS A MULTIPLIER FOR YOUR AV CONTENT.

AV over IP is the most cost effective solution, providing unlimited scalability for transmitting AV signals over conventional IP networks.

The market for IP-based AV distribution systems is booming as the number of projects that integrate AV over IP products increases. These break AV signals down into Ethernet IP packets for transmission over a network and reassemble them at the other end. As a result, regular network switches can do the work of AV or even matrix switches in large AV environments. What's more, AV over IP lends itself for directly sending control commands, KVM functionality and USB signals – making it a highly attractive option for industrial applications such as control rooms and production management. Digital signage applications and conference rooms, to mention just two of many examples, also benefit from its inherent scalability. The latter are easy to network with one another and can be quickly equipped with videophone and image display capabilities. AV transmission without limits!

THE MOST COMPREHENSIVE PORTFOLIO: THE IP RANGE

Choose from our comprehensive product portfolio for extending AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



**HDMI & IR OVER 100BaseT,
IP EXTENDER**



**HDMI & IR OVER 100BaseT,
IP RECEIVER**



**HDMI, USB, RS232 & IR OVER GIGABIT,
IP TRANSMITTER**

SPECIFICATIONS

AV Interface	HDMI	HDMI	HDMI
Interface Standard	HDMI 1.2	HDMI 1.2	HDMI 1.2
Supported Bandwidth	4.95Gbps	4.95Gbps	4.95Gbps
Maximum Distance	100m (328.08ft)	100m (328.08ft)	100m (328.08ft)
Maximum Resolution	1920x1080@60Hz 4:4:4 8bit	1920x1080@60Hz 4:4:4 8bit	1920x1080@60Hz 4:4:4 8bit
HDCP Support	Pass-Through	Pass-Through	Pass-Through
EDID Pass Through	Pass-Through	Pass-Through	Pass-Through
Supported Audio	2 Channel PCM	2 Channel PCM	2 Channel PCM
IR Support	30-60kHz	30-60kHz	33-50kHz
Serial Interface	-	-	RS232
Transmission Protocol	IP	IP	IP
Transmission Medium	1 x Cat.5e/6	1 x Cat.5e/6	1 x Cat.5e/6
Chipset	Taifatech 680	Taifatech 680	ASPEED AST1500
Special Features	-	-	USB KVM Function

CONNECTORS

Transmitter Input	HDMI (Female)	-	HDMI (Female), 3.5mm Audio (Female)
Transmitter Output	RJ45 (Female), IR (Female)	-	RJ45 (Female), IR, 3.5mm Audio (Female)
Receiver Input	RJ45 (Female), IR (Female)	RJ45 (Female), IR (Female)	-
Receiver Output	HDMI (Female)	HDMI (Female)	-
Bidirectional Ports	-	-	USB, RS232
Power	5.5/2.1mm DC socket	5.5/2.1mm DC socket	5.5/2.1mm DC socket

PHYSICAL PROPERTIES

Dimensions (approx.) WxDxH	100x65x26mm (3.94x2.56x1.02in) per unit	100x65x26mm (3.94x2.56x1.02in)	180x110x25mm (7.09x4.33x0.98in)
Housing Material	Metal	Metal	Metal
Net Weight	0.245kg (0.54lb) per unit	0.245kg (0.54lb)	0.46kg (1.01lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 60°C (32°F - 140°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 70°C (-4°F - 158°F)
Power Requirements	5VDC 1A	5VDC 1A	5VDC 3A
	No. 38126	No. 38129	No. 38066



HDMI, USB, RS232 & IR OVER GIGABIT, IP RECEIVER

HDMI
HDMI 1.2
4.95Gbps
100m [328.08ft]
1920x1080@60Hz 4:4:4 8bit
Pass-Through
Pass-Through
2 Channel PCM
33-50kHz
RS232
IP
1 x Cat.5e/6
ASPEED AST1500
USB KVM Function

-
-
RJ45 (Female), 3.5mm Audio (Female)
HDMI (Female), 3.5mm Audio (Female)
USB, RS232
5.5/2.1mm DC socket

180x110x25mm [7.09x4.33x0.98in]
Metal
0.46kg [1.01lb]
0°C - 60°C [32°F - 140°F]
-20°C - 70°C [-4°F - 158°F]
5VDC 3A

No. 38067



4K HDMI & USB OVER IP EXTENDER, TRANSMITTER

HDMI & VGA
HDMI 2.0, USB (HID) and USB 2.0
10.2Gbps
100m [393.7ft] (Point-to-Point)
3840x2160 60Hz 4:2:0 8bit (VGA max 1920x1200 60Hz)
HDCP 1.4 and 2.2
-
Embedded Digital HDMI Audio + 2 analogue audio channels
-
RS232
IP
1 x Cat.6
AST1520
Video Wall Function, VGA Input & Output support, Bidirectional IR & Serial RS232

HDMI (Female), VGA (Female), 3.5mm Audio (Female), 3.5mm IR (Female)
RJ45 (Female), VGA (Female), 3.5mm Audio (Female), 3.5mm IR (Female)
-
-
USB, RS232
5.5/2.1 mm DC socket

232x25x108mm [9.13x0.98x4.25in]
Metal
0.67kg [1.48lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
5VDC 2.4A

No. 38266



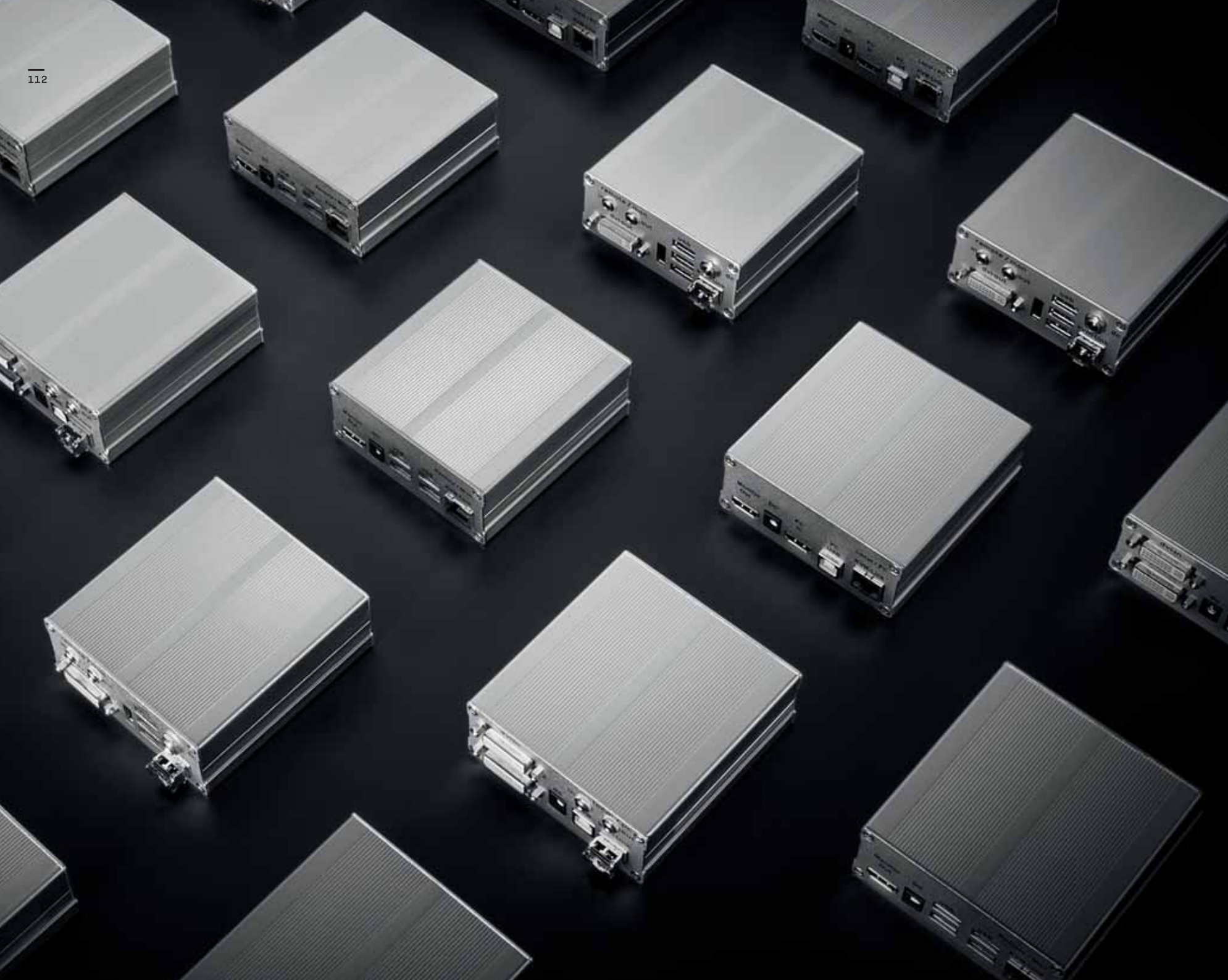
4K HDMI & USB OVER IP EXTENDER, RECEIVER

HDMI & VGA
HDMI 2.0, USB (HID) and USB 2.0
10.2Gbps
100m [393.7ft] (Point-to-Point)
3840x2160 60Hz 4:2:0 8bit (VGA max 1920x1200 60Hz)
HDCP 1.4 and 2.2
-
Embedded Digital HDMI Audio + 2 analogue audio channels
-
RS232
IP
1 x Cat.6
AST1520
Video Wall Function, VGA Input & Output support, Bidirectional IR & Serial RS232

-
-
RJ45 (Female), 3.5mm Audio (Female), 3.5mm IR (Female)
HDMI (Female), VGA (Female), 3.5mm Audio (Female), 3.5mm IR (Female), TOSLINK
USB, RS232
5.5/2.1 mm DC socket

232x25x108mm [9.13x0.98x4.25in]
Metal
0.67kg [1.48lb]
0°C - 40°C [32°F - 104°F]
-20°C - 60°C [-4°F - 140°F]
5VDC 4A

No. 38267



500M FIBRE OPTIC DVI-D
SINGLE LINK & USB 2.0 KVM EXTENDER
No. 39240 & 39241

130M CAT.6 DVI-D
SINGLE LINK & USB 2.0 KVM EXTENDER
No. 39200 & 39201

130M CAT.6 DVI-D
SINGLE LINK, USB 2.0 & OPTIONAL AUDIO
OR RS232 KVM EXTENDER
No. 39210 & 39211

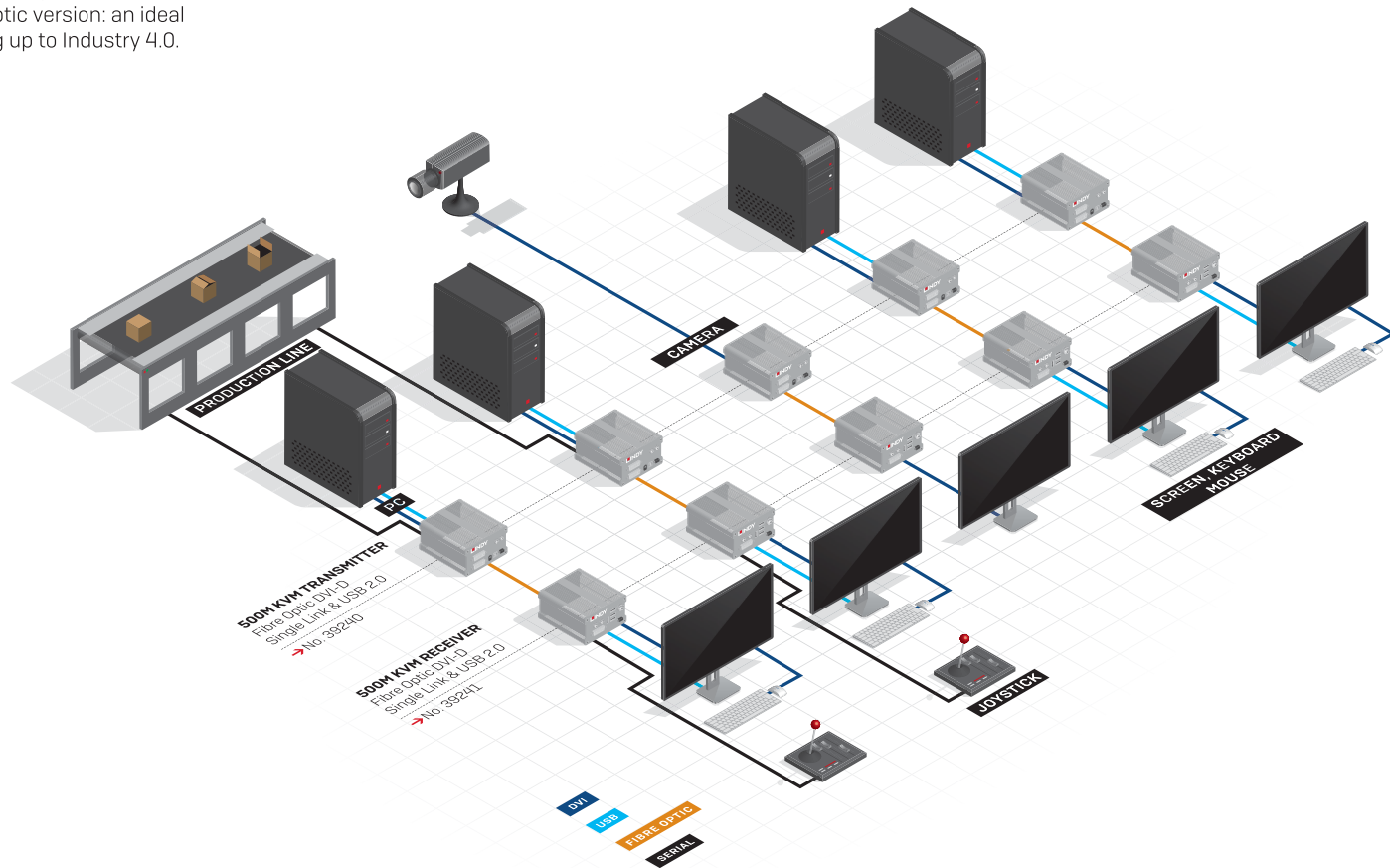
REMOTE CONSOLES

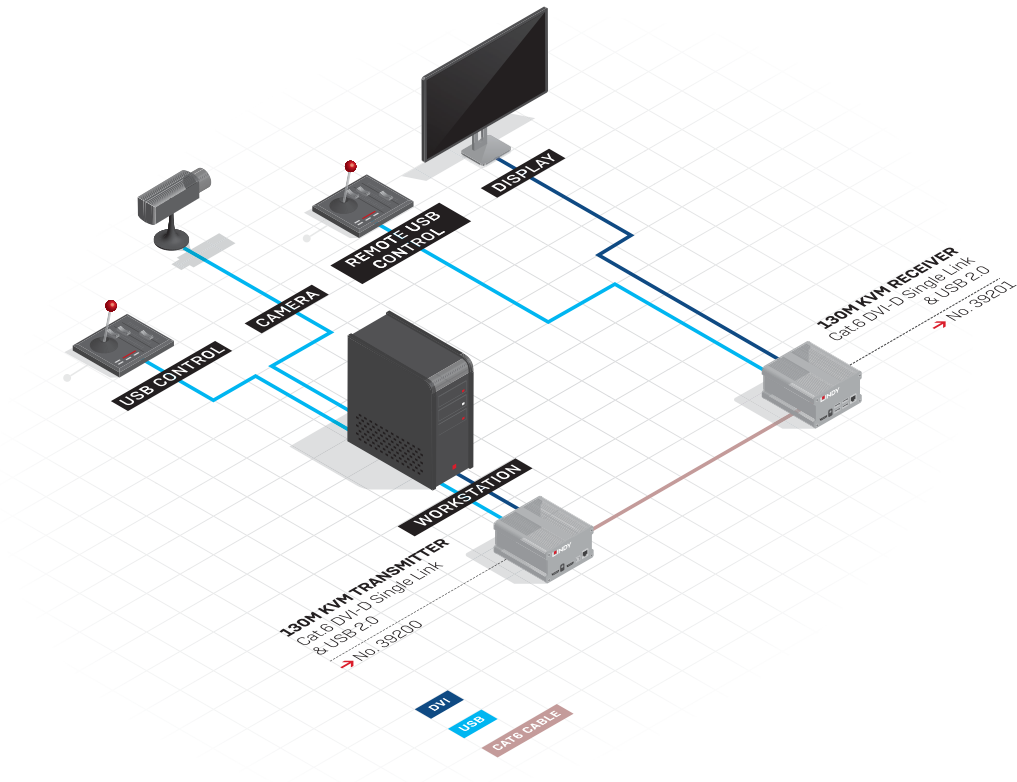
DVI-D KVM EXTENDER SERIES

Professional KVM extender systems for industrial use need three things: a robust design, 100% reliability and flexible scalability. Our systems meet every expectation, because the sets of the KVM Extender Series can be flexibly fitted with either copper or fibre optic cables depending on the distances involved, and their functional scope can be expanded by enabling various pre-installed options. Every application and environment is different, after all. If USB access to mass storage is required in addition to the KVM console, for instance for using a USB stick to remotely feed in data, or if there is a wish for analogue audio at a remote console, it's very easy to install an upgrade with these extensions. By the same token, multiple sets of the KVM Extender Series can be linked via a standard network switch to create a matrix that lets any console access any involved computer. For making decisions, remotely taking actions and controlling user access in real time.

CONTROL ROOMS - PRODUCTION LINES

In industrial production, it's important to be able to monitor and control all automated processes from a central control room. The KVM Extender Series do an excellent job of transmitting camera images and control signals between a console, a computer and the controlled systems. To make sure that signals arrive at the console optimally, it's advisable to choose the fibre optic version: an ideal choice for stepping up to Industry 4.0.



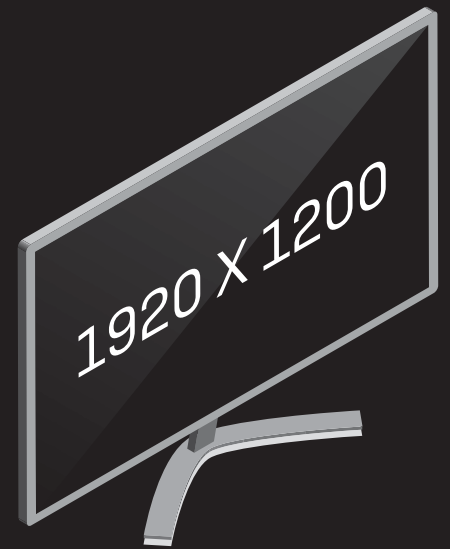


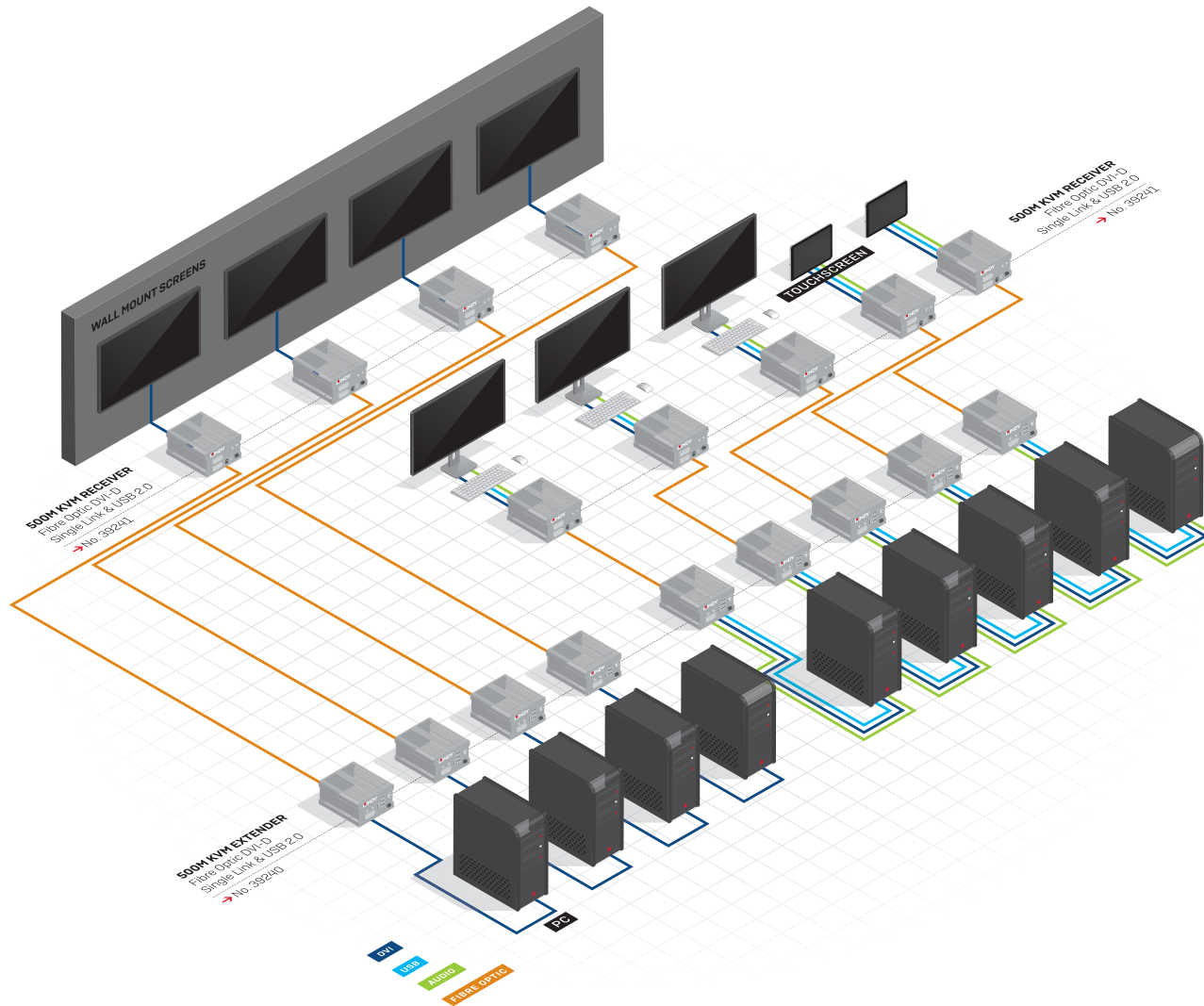
CONTROL ROOMS – CONTROL IN EXTREME ENVIRONMENTS

For remote control tasks – for example, using cranes at construction sites or to load containers onto ships – it's typically necessary to position KVM consoles at a distance of between 80 and 120 metres. Besides a keyboard and mouse, USB remote control and an on-site camera are required. The ideal solution is the basic model of our KVM Extender Series. It is able to transmit a DVI video signal plus USB 2.0 for the keyboard, mouse and USB remote control over a Cat.6 Ethernet cable up to 130 metres long.

▼ ATTENTION TO DETAIL HIGH RESOLUTION IMAGE TRANSFER

The sets of the KVM Extender Series transmit images with resolutions up to 1920x1200px. This renders even the finest details visible, for example in surveillance scenarios.





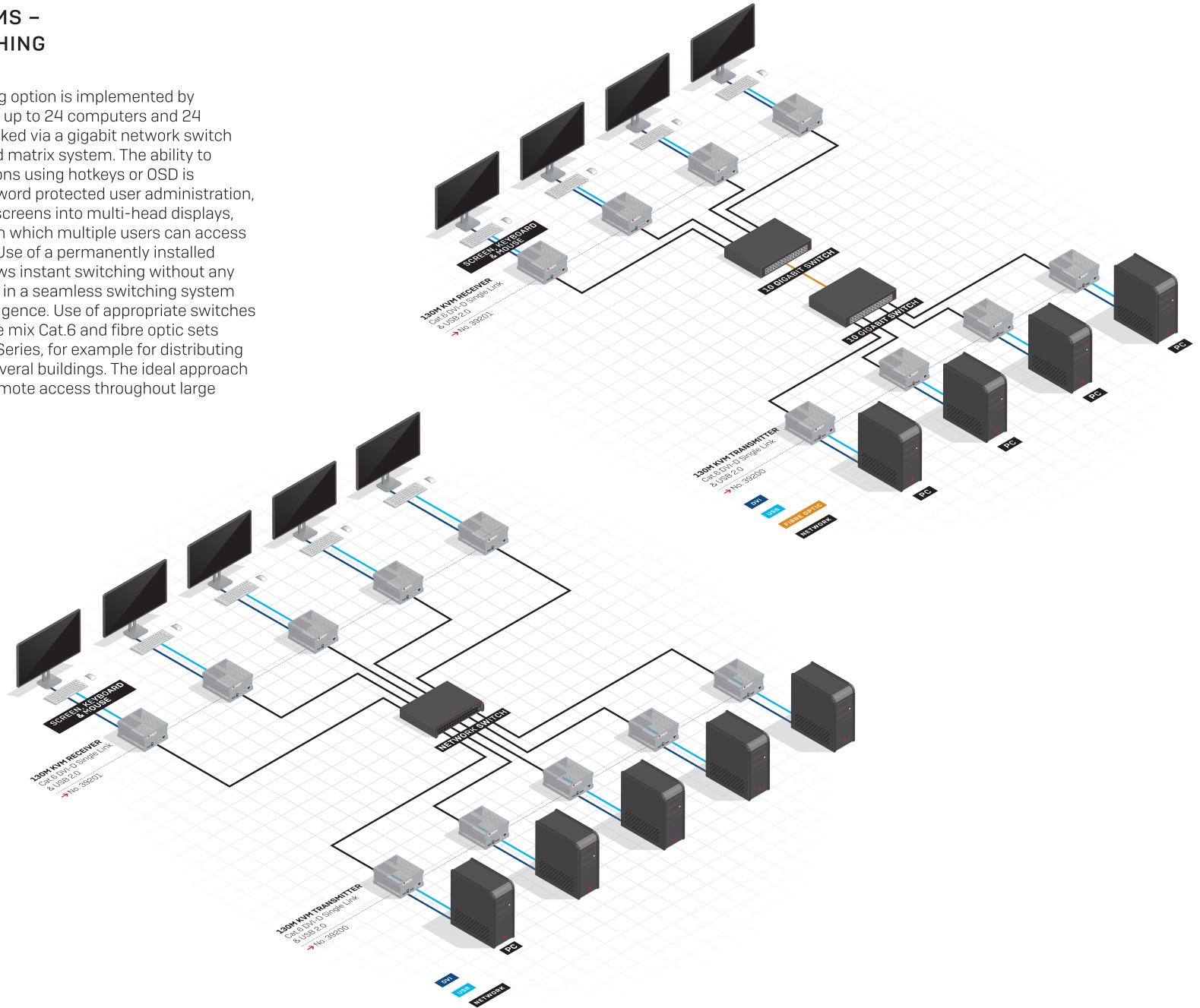
COOPERATION – TRAINING AND SEMINAR ROOMS

Training in high-tech multimedia rooms is growing in importance because learning is enhanced when receiving information via multiple channels. Computer systems that can be flexibly controlled for individual participants are now indispensable, for example in IT training courses.

Sets of the KVM Extender Series lend themselves for linking the computers themselves, which are usually accommodated on 19" racks in separate rooms, with consoles used by trainees or the teacher or large wall mounted displays for presentation purposes.

CONTROL ROOMS – MATRIX SWITCHING

If the matrix switching option is implemented by installing an upgrade, up to 24 computers and 24 workspaces can be linked via a gigabit network switch to create a distributed matrix system. The ability to change the connections using hotkeys or OSD is important, as is password protected user administration, grouping of multiple screens into multi-head displays, and a sharing mode in which multiple users can access the same computer. Use of a permanently installed extender system allows instant switching without any time delays, resulting in a seamless switching system with distributed intelligence. Use of appropriate switches also makes it possible mix Cat.6 and fibre optic sets of the KVM Extender Series, for example for distributing the system across several buildings. The ideal approach for monitoring and remote access throughout large corporate facilities.



TECHNOLOGY OVERCOMES DISTANCES. INNOVATIONS LEAVE LIMITS BEHIND.

Make decisions in real time. Take action as if distance didn't exist. Exert unlimited control. KVM extenders are the technological standard for sending AV and input signals across large distances. This technology has found its niche and keeps on evolving – mainly due to the need to operate and administer distant computer systems in increasingly complex AV environments. Independently of the platform and without the need to install any drivers. As expectations in respect of resolution and image quality in IT and AV installations continue to grow, the transmission technologies used must keep pace with them. They have to instantly provide crystal clear visual content wherever it's needed and enable delay-free user actions via human interface devices. The ability to daisy-chain and combine multiple switches to create modular solutions is a must for increasing flexibility and permitting future extensions.

EXTEND EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR KVM RANGE



150M CAT.6 DUAL HEAD HDMI, USB & RS232 EXTENDER

This set has been specially developed for extending HDMI signals, including those from a keyboard and mouse, to an HDMI target device via dual Cat. 6 Ethernet cables up to 120 metres long. Two HDMI sources can be transmitted to two HDMI target devices (dual head), controlled via a USB connected device. For example, surveillance cameras can be connected to one port and a computer to another for controlling them. In addition to extending HDCP compliant HDMI and USB signals, the extender also supports the relaying of RS232 and IR signals, while providing remote control of equipment for integration in AV and control environments. Resolutions up to 1920x1080p at 60Hz, including analogue stereo sound signals, are supported. The set is ideally suited for a wide range of uses calling for high quality transmission and control of content over long distances.

No. 39372



50M CAT.6 HDMI & USB KVM EXTENDER

This compact set makes it easy to extend the HDMI and USB signals from a computer to a remote console up to 50m away over a conventional Cat. 6 cable. The remote console is driven by the receiver, which integrates USB ports in addition to the HDMI interface, allowing a monitor, keyboard and mouse to be connected for remotely controlling the computer. For even easier, more flexible operation, a second console with HDMI monitor, USB mouse and USB keyboard can be locally connected using the USB and HDMI ports of the transmitter. Thanks to 3D support, HDCP, stereo audio and other extras, this solution allows faster responses, greater security and efficiency, and easier maintenance in AV control applications.

No. 39371

THE MOST COMPREHENSIVE PORTFOLIO: THE KVM RANGE

Choose from our comprehensive product portfolio for extending AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	50M CAT.6 HDMI & USB KVM EXTENDER	150M CAT.6 DUAL HEAD HDMI, USB & RS232 EXTENDER	130M CAT.6 DVI-D SINGLE LINK & USB 2.0 KVM EXTENDER, TRANSMITTER	130M CAT.6 DVI-D SINGLE LINK & USB 2.0 KVM EXTENDER, RECEIVER
AV Interface	HDMI	HDMI	DVI-D	DVI-D
Console Interface	USB	USB	USB	USB
Interfaces Standard	HDMI 1.4, USB (HID)	HDMI 1.4, USB (HID)	DVI-D 2.0 (Single Link), USB 2.0	DVI-D 2.0 (Single Link), USB 2.0
Supported Bandwidth	4.95Gbps	4.95Gbps	4.95Gbps	4.95Gbps
Maximum Distance	50m (164.04ft)	150m (492.12ft)	130m (426.5ft)	130m (426.5ft)
Maximum Resolution	1920x1080@60Hz	1920x1080@60Hz	1920x1200@60Hz	1920x1200@60Hz
HDCP Support	1.4	1.4	-	-
Supported Audio	Analogue Stereo	Analogue Stereo	-	-
Transmission Protocol	-	-	IP	IP
Transmission Medium	1 x Cat.6 Cable	2 x Cat.6 Cable	1 x Cat.6 Cable	1 x Cat.6 Cable
Laser Class (only for Fibre)	-	-	-	-
Special Features	-	IR and RS232 signal extension	Mass Storage and Matrix Switch features available as options	Mass Storage and Matrix Switch features available as options
CONNECTORS				
Transmitter KVM Interfaces	2 x HDMI (Female), 2 x USB Type A (Female), USB Type B (Female), 2 x 3.5mm (Female)	2 x HDMI (Female), 2 x USB Type A (Female), USB Type B (Female), 2 x 3.5mm (Female), DB9 (Female)	2 x HDMI (Female), USB Type B (Female)	-
Transmitter Extension Port	RJ45 (Female)	2 x RJ45 (Female)	RJ45 (Female)	-
Receiver Console Interface	HDMI (Female), 2 x USB Type A (Female), 3.5mm (Female)	2 x HDMI (Female), 2 x USB Type A (Female), USB Type B (Female), 2 x 3.5mm (Female), DB9 (Female)	-	2 x HDMI (Female), 4 x USB Type A (Female)
Receiver Extension Port	RJ45 (Female)	2 x RJ45 (Female)	-	RJ45 (Female)
Bidirectional Ports	-	DB9 RS232 (Female)	-	-
Other Interfaces	-	IR (3.5mm Female)	-	-
Power	5.5/2.5mm DC socket	5.5/2.5mm DC socket	5.5/2.1mm DC socket	5.5/2.1mm DC socket
PHYSICAL PROPERTIES				
Dimensions (approx.) WxDxH	115x60x28mm (4.53x2.36x1.1in)	163x114x33mm (6.42x4.49x1.3in)	100x105x44mm (3.94x4.13x1.73in)	100x105x44mm (3.94x4.13x1.73in)
Housing Material	Metal	Metal	Metal	Metal
Net Weight	0.32kg (0.71lb) per unit	0.7kg (1.54lb) per unit	0.35kg (0.77lb)	0.35kg (0.77lb)
Operating Temperature	0°C - 60°C (32°F - 140°F)	0°C - 60°C (32°F - 140°F)	0°C - 45°C (32°F - 113°F)	0°C - 45°C (32°F - 113°F)
Storage Temperature	-20°C - 70°C (-4°F - 158°F)	-20°C - 70°C (-4°F - 158°F)	-25°C - 80°C (-13°F - 176°F)	-25°C - 80°C (-13°F - 176°F)
Power Requirements	5VDC 1.2A	5VDC 4A	12VDC 1A	12VDC 1A
	No. 39371	No. 39372	No. 39200	No. 39201



**130M CAT.6 DVI-D SINGLE LINK,
USB 2.0 & OPTIONAL AUDIO OR RS232
KVM EXTENDER, TRANSMITTER**

DVI
USB
DVI 2.0 (Single Link), USB 2.0
4.95Gbps
130m (426.5ft)
1920x1200@60Hz
-
Analogue (Stereo) - Available as an option
IP
1 x Cat.6 Cable
1
Mass Storage, Audio or RS232 and Matrix Switch features available as options



**130M CAT.6 DVI-D SINGLE LINK,
USB 2.0 & OPTIONAL AUDIO OR RS232
KVM EXTENDER, RECEIVER**

DVI
USB
DVI 2.0 (Single Link), USB 2.0
4.95Gbps
130m (426.5ft)
1920x1200@60Hz
-
Analogue (Stereo) - Available as an option
IP
1 x Cat.6 Cable
1
Mass Storage, Audio or RS232 and Matrix Switch features available as options



**500M LWL / FIBRE OPTIC
DVI-D SINGLE LINK & USB 2.0
KVM EXTENDER, TRANSMITTER**

DVI
USB
DVI 2.0 (Single Link), USB 2.0
4.95Gbps
500m (1640.4ft)
1920x1200@60Hz
-
Analogue (Stereo) - Available as an option
IP
1x Duplex LC (50/125µm)
1
Mass Storage, Audio or RS232 and Matrix Switch features available as options



**500M LWL / FIBRE OPTIC
DVI-D SINGLE LINK & USB 2.0
KVM EXTENDER, RECEIVER**

DVI
USB
DVI 2.0 (Single Link), USB 2.0
4.95Gbps
500m (1640.4ft)
1920x1200@60Hz
-
Analogue (Stereo) - Available as an option
IP
1x Duplex LC (50/125µm)
1
Mass Storage, Audio, RS232 and Matrix Switch features available as options

2 x DVI-I (Female), USB Type B (Female),
2 x 3.5mm (Female)

RJ45 (Female)

-

-

-

5.5/2.1mm DC socket

-

-

DVI-I (Female), 4 x USB Type A (Female),
2 x 3.5mm (Female)

RJ45 (Female)

-

-

5.5/2.1mm DC socket

2 x DVI-I (Female), USB Type B (Female),
2 x 3.5mm (Female)

SFP Female (LC)

-

-

-

5.5/2.1mm DC socket

-

-

DVI-I (Female), 4 x USB Type A (Female),
2 x 3.5mm (Female)

SFP Female (LC)

-

-

5.5/2.1mm DC socket

100x105x44mm (3.94x4.13x1.73in)

Metal

0.35kg (0.77lb)

0°C - 45°C (32°F - 113°F)

-25°C - 80°C (-13°F - 176°F)

12VDC 1A

No. 39210

100x105x44mm (3.94x4.13x1.73in)

Metal

0.35kg (0.77lb)

0°C - 45°C (32°F - 113°F)

-25°C - 80°C (-13°F - 176°F)

12VDC 1A

No. 39211

100x105x44mm (3.94x4.13x1.73in)

Metal

0.35kg (0.77lb)

0°C - 45°C (32°F - 113°F)

-25°C - 80°C (-13°F - 176°F)

12VDC 1A

No. 39240

100x105x44mm (3.94x4.13x1.73in)

Metal

0.35kg (0.77lb)

0°C - 45°C (32°F - 113°F)

-25°C - 80°C (-13°F - 176°F)

12VDC 1A

No. 39241



CONNECTING

Our special strength is long distance transmission of signals with high resolution and bandwidth. And our large selection of cables and adapters isn't limited to standard lengths for specified maximum distances. We apply our expertise to supply extra long distance cables that redefine possibilities.

SCENARIOS, PRODUCTS & TECHNICAL INFORMATION

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ACTIVE CABLE RANGE	PAGE 126
FIBRE OPTIC CABLE RANGE	PAGE 128
LINDY CABLE LINES	PAGE 130
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▶ DVI Single Link	PAGE 144
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▶ USB 3.0	PAGE 150
▶ USB 2.0	PAGE 154



CONNECT EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR PRO AV CAT.X CABLE RANGE



CAT.6 U/UTP SOLID CORE NETWORK CABLE

These patch cables are pre-terminated with overmoulded RJ45 plugs, making them an excellent choice for transmitting signals across short or long distances. They have a core of four twisted solid copper wire pairs without outer shielding or screening for the wire pairs. An integrated anti-kink sleeve, gold plated contacts and robust internal strain relief extend the life expectancy of the RJ45 plugs while minimising the risk that oxidation or corrosion might cause signal losses. These cables have been specifically developed for use with HDBaseT or IP extenders or in large scale Gigabit networks that require a power supply via PoE or PoH.

-
- No. 44460 – 10m Cat.6 U/UTP Solid Core Network Cable
 - No. 44461 – 20m Cat.6 U/UTP Solid Core Network Cable
 - No. 44462 – 30m Cat.6 U/UTP Solid Core Network Cable
 - No. 44463 – 40m Cat.6 U/UTP Solid Core Network Cable
 - No. 44464 – 50m Cat.6 U/UTP Solid Core Network Cable
 - No. 44465 – 75m Cat.6 U/UTP Solid Core Network Cable
 - No. 44466 – 100m Cat.6 U/UTP Solid Core Network Cable



CAT.6 F/UTP SOLID PATCH CABLE

These patch cables excel with a high quality core of twisted solid copper wire pairs which are foil-shielded over their entire length to minimise EMI. The pre-terminated overmoulded RJ45 plugs with gold plated contacts provide a reliable and corrosion-protected contact surface, effectively eliminating signal losses due to oxidation or corrosion. The use of solid wire permits signal transmission across long distances, making these cables ideal for use in stationary installations in conjunction with HDBaseT or IP extenders. Excellent performance is also guaranteed in large and EMI prone environments in which PoE or PoH is also used.

-
- No. 44470 – 10m Cat.6 F/UTP Solid Patch Cable
 - No. 44471 – 20m Cat.6 F/UTP Solid Patch Cable
 - No. 44472 – 30m Cat.6 F/UTP Solid Patch Cable
 - No. 44473 – 40m Cat.6 F/UTP Solid Patch Cable
 - No. 44474 – 50m Cat.6 F/UTP Solid Patch Cable
 - No. 44475 – 75m Cat.6 F/UTP Solid Patch Cable
 - No. 44476 – 100m Cat.6 F/UTP Solid Patch Cable



CONNECTORS

Connector A
Connector B
Housing Material
Connector Plating
Pin Construction
Pin Plating
Dimensions (approx.) WxDxH

CAT.6 U/UTP SOLID CORE NETWORK CABLE

RJ45
RJ45
Polycarbonate
-
Copper
3µm Gold Plating
13.6x22.5x11.78mm (0.54x0.89x0.46in)

CAT.6 F/UTP SOLID PATCH CABLE

RJ45
RJ45
Polycarbonate
Nickel
Copper
3µm Gold Plating
13.6x22.6x11.78mm (0.54x0.89x0.46in)

CABLE CONSTRUCTION

Type
Jacket Diameter
Jacket Material
Conductor Material
Conductor Gauge
Shielding

Cat.6 U/UTP
5.8mm (0.23in)
PVC
Copper
24AWG
-

Cat.6 F/UTP
6.2mm (0.24in)
PVC
Copper
24AWG
Aluminium Braid

SPECIFICATIONS

Supported Bandwidth
Nominal Attenuation
Minimum Bend Radius
Operating Temperature
Storage Temperature

250MHz
@250MHz Max. 32.8dB/100m
46.5mm (1.83in)
-10°C - 60°C (14°F - 140°F)
-20°C - 75°C (-4°F - 167°F)

250MHz
@250MHz Max. 32.8dB/100m
50mm (1.97in)
-10°C - 60°C (14°F - 140°F)
-20°C - 75°C (-4°F - 167°F)

- No. 44460 – 10m [32.81ft]
- No. 44461 – 20m [65.62ft]
- No. 44462 – 30m [98.43ft]
- No. 44463 – 40m [131.23ft]
- No. 44464 – 50m [164.04ft]
- No. 44465 – 75m [246.06ft]
- No. 44466 – 100m [328.08ft]

- No. 44470 – 10m [32.81ft]
- No. 44471 – 20m [65.62ft]
- No. 44472 – 30m [98.43ft]
- No. 44473 – 40m [131.23ft]
- No. 44474 – 50m [164.04ft]
- No. 44475 – 75m [246.06ft]
- No. 44476 – 100m [328.08ft]

CONNECT EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR PRO AV ACTIVE CABLE RANGE



ACTIVE DISPLAYPORT TO HDMI 4K CABLE

These adapter cables convert and extend the signal of a DisplayPort capable source device for transmission to HDMI capable target devices such as projectors or displays. They support resolutions up to 4K UHD at 30Hz with a 4:4:4 colour space and 8bit colour depth. Uncompressed audio signals (LPCM), DTS, Dolby Digital, DTS-HD and Dolby True HD are also supported. Compatibility with DisplayPort 1.2 and HDMI 1.4a is ensured, as well as backwards compatibility with all older DP and HDMI standards. Power is supplied via the DisplayPort connection, eliminating the need for an external power source, additional cables and mains adapters while minimising the required installation work. A low attenuation triple shield construction and high performance 28AWG tinned copper conductors make the cables impervious to interference, thus ensuring delay free, high resolution signal transmission. Ideal for professional applications requiring durable and reliable point to point plug and play connection of DisplayPort capable source devices to HDMI displays.

-
- No. 41715 – 0.5m Active DisplayPort to HDMI 4K Cable
 - No. 41716 – 1m Active DisplayPort to HDMI 4K Cable
 - No. 41717 – 2m Active DisplayPort to HDMI 4K Cable



ACTIVE HDMI 2.0 18G CABLE

These compact cables allow active point-to-point HDMI signal transmission. Being effortless to install, they are an excellent solution for connecting HDMI 2.0 sources to compatible 4K UHD displays or projectors. All of the cables conform completely to the HDMI 2.0 specifications and permit throughputs of up to 18Gbps bandwidth. Resolutions up to 4K UHD at 60Hz are supported, resulting in clear, sharp images. The cables also support the REC.2020 colour space, which meets the requirements for High Dynamic Range (HDR) video content with enhanced contrast and lifelike colours. Dolby True HD and DTS-HD Master Audio with up to 32 channels are additionally supported. Power is supplied via the HDMI interface, which enables installations in environments with limited availability of power sources. These cables are ideal for professional installations in which transmitted signals must arrive at the display without any compression, where passive cables would be too short and extender systems are not appropriate for installation.

-
- No. 41071 – 10m Active HDMI 2.0 18G Cable
 - No. 41072 – 15m Active HDMI 2.0 18G Cable
 - No. 41073 – 20m Active HDMI 2.0 18G Cable
 - No. 41074 – 25m Active HDMI 2.0 18G Cable



CONNECTORS

Connector A
Connector B
Housing Material
Connector Plating
Pin Construction
Pin Plating
Dimensions (approx.) WxDxH

ACTIVE DISPLAYPORT TO HDMI 4K CABLE

DisplayPort Male
HDMI Type A Male
ABS
1µm Gold Plating
Phosphor Copper
3µm Gold Plating
DP 36.4x19.9x11.6mm [1.43x0.78x0.46in] HDMI 44x20.5x10.5mm [1.73x0.81x0.41in]

ACTIVE HDMI 2.0 18G CABLE

HDMI Type A Male
HDMI Type A Male
ABS
24K Gold Flash
Phosphor Bronze
24K Gold 3µm
21.68x43x13.22mm [0.85x1.69x0.52in]

CABLE CONSTRUCTION

Standard
Type
Jacket Diameter
Jacket Material
Conductor Material
Conductor Gauge
Shielding

DP 1.2
Round
7.3mm [0.29in]
PVC
Tinned Copper
28AWG
85% Aluminium Mylar

HDMI 2.0
Round
8.6mm [0.34in]
PVC
Bare Copper
28AWG
Aluminium Foil Mylar, 100% / Aluminium Alloy Braiding, 70%

SPECIFICATIONS

Supported Bandwidth
Maximum Resolution
Nominal Attenuation
Minimum Bend Radius
Operating Temperature
Storage Temperature

10.2Gbps
4096x2160@60Hz 4:4:4 8bit
-
73mm [2.87in]
10°C - 80°C (50°F - 176°F)
-20°C - 80°C (-4°F - 176°F)

18Gbps
4096x2160@60Hz 4:4:4 8bit
300KHz - 825MHz 5dB, 2.475GHz - 4.125GHz 12dB - 20dB
100mm [3.94in]
-20°C - 80°C (-4°F - 176°F)
-10°C - 60°C (14°F - 140°F)

No. 41715 - 0.5m [1.64ft]
No. 41716 - 1m [3.28ft]
No. 41717 - 2m [6.56ft]

No. 41071 - 10m [32.81ft]
No. 41072 - 15m [49.21ft]
No. 41073 - 20m [65.62ft]
No. 41074 - 25m [82.02ft]

CONNECT EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR PRO AV FIBRE OPTIC CABLE RANGE



LC-LC OM3 50/125 FIBRE OPTIC PATCH CABLE

Equipped with 50/125µm optical fibres, these OM3 duplex fibre optic cables are ideal for transmitting high resolution AV signals, high speed, high bandwidth data transmission over 10 gigabit Ethernet and Fibre Channel networks. LC duplex plugs with automatic locking facilitate use in both permanent and temporary installations. This means that, for example, components can be easily replaced or exchanged at any time without having to lay a new cable. They work well with HDMI, DisplayPort and DVI fibre optic extenders for dependably transmitting high resolution signals over long distances.

-
- No. 46374 – 10m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46375 – 15m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46376 – 20m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46400 – 30m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46401 – 40m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46402 – 50m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46403 – 75m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46404 – 100m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46405 – 150m LC-LC OM3 50/125 Fibre Optic Patch Cable
 - No. 46406 – 200m LC-LC OM3 50/125 Fibre Optic Patch Cable



MPO FIBRE OPTIC CABLE, 50/125µm OM3

These low-loss OM3 multi-mode fibre optic patch cables are inherently corrosion-resistant and impervious to EMI, making them ideal for transmitting high bandwidth audio and video signals over long distances. They excel with small diameter strands and low signal attenuation. A 50/125µm core ensures low latency data transmission in duplex multi-mode applications. The MTP/MPO plug connectors contain 12 parallel strands for maximum bandwidth. They run in a single high precision ferrule to reduce insertion and return losses. The connectors are quick and easy to remove by hand for replacing or exchanging components. The cables are specially designed for use with HDMI, DisplayPort and DVI fibre optic extenders, and pre-terminated versions are suitable for distances between 10 and 200 metres. Ideal for linking rack mounted devices without climate control, behind walls or ceilings or in high EMI environments.

-
- No. 46980 – 10m MPO Fibre Optic Cable, 50/125µm OM3
 - No. 46981 – 20m MPO Fibre Optic Cable, 50/125µm OM3
 - No. 46982 – 30m MPO Fibre Optic Cable, 50/125µm OM3
 - No. 46983 – 50m MPO Fibre Optic Cable, 50/125µm OM3
 - No. 46984 – 100m MPO Fibre Optic Cable, 50/125µm OM3
 - No. 46985 – 150m MPO Fibre Optic Cable, 50/125µm OM3
 - No. 46986 – 200m MPO Fibre Optic Cable, 50/125µm OM3



CONNECTORS

Connector A
Connector B
Housing Material
Dimensions (approx.) WxDxH

LC-LC OM3 50/125 FIBRE OPTIC PATCH CABLE

2xLC
2xLC
Polytherimite
12.4x53.0x11.0mm (0.49x2.09x0.43in)

MPO FIBRE OPTIC CABLE, 50/125µM OM3

MPO
MPO
Plastic
12.5x65.0x9.2mm (0.49x2.56x0.36in)

CABLE CONSTRUCTION

Type
Jacket Diameter
Jacket Material
Conductor Material

50/125 OM3 Fibre
3.0x6.0mm (0.12 x 0.24in)
LSZH
SiO2

50/125 OM3 Fibre
3.0mm (0.12in)
LSZH
SiO2

SPECIFICATIONS

Supported Bandwidth
Nominal Attenuation
Minimum Bend Radius
Operating Temperature
Storage Temperature

EMB: 2000MHz/km@850nm
<2.3dB/km @850nm <0.6dB/km @1300nm
15mm (0.59in)
-20°C - 60°C [-4°F - 140°F]
-45°C - 80°C [-49°F - 176°F]

EMB: 2000MHz/km@850nm
<2.3dB/km @850nm <0.6dB/km @1300nm
15mm (0.59in)
-20°C - 60°C [-4°F - 140°F]
-45°C - 80°C [-49°F - 176°F]

- No. 46374 – 10m [32.81ft]
- No. 46375 – 15m [49.21ft]
- No. 46376 – 20m [65.62ft]
- No. 46400 – 30m [98.43ft]
- No. 46401 – 40m [131.23ft]
- No. 46402 – 50m [164.04ft]
- No. 46403 – 75m [246.03ft]
- No. 46404 – 100m [328.08ft]
- No. 46405 – 150m [492.13ft]
- No. 46406 – 200m [656.17ft]

- No. 46980 – 10m [32.81ft]
- No. 46981 – 20m [65.62ft]
- No. 46982 – 30m [98.43ft]
- No. 46983 – 50m [164.04ft]
- No. 46984 – 100m [328.08ft]
- No. 46985 – 150m [492.13ft]
- No. 46986 – 200m [656.17ft]

LINDY
CABLE LINES

LINEAR THINKING CABLE LINES

Lines represents the concept of cable connectivity from Lindy.

Lines is Black, Anthra, Cromo and Gold variants that meet the complex requirements of a wide variety of applications and markets from consumer use to professional AV and digital signage. Lines is the ultimate expression of our technical excellence, design philosophy and, most importantly our passion, in creating industry leading high performance cable solutions.

Discover Linear Thinking at LindyCables.com



GOLD LINE NO COMPROMISE

Built for mission critical systems and industrial applications.
Featuring DisplayPort, HDMI & DVI connectors.



CROMO LINE DESIGN & PERFORMANCE

Developed for prosumer and public facing commercial applications.
Featuring DisplayPort, HDMI & USB connectors.



ANTHRA LINE PROFESSIONAL CHOICE

Designed for use in pro AV & commercial applications.
Featuring DisplayPort, HDMI, DVI & USB connectors.











BLACK LINE UNIVERSAL CONNECTIONS

Perfect for home and small office applications.
Featuring DisplayPort, HDMI & USB connectors.



THE MOST COMPREHENSIVE PORTFOLIO: THE CABLE LINES

Choose from our comprehensive product portfolio for connecting AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.

CABLE LINES	LENGTH INDICATOR	DISPLAYPORT		HDMI					DVI			
		DisplayPort 1.4	DisplayPort 1.2	High Speed HDMI	Standard HDMI	HDMI to DVI-D	Mini HDMI to DVI	Micro HDMI to DVI	DVI-D Dual Link	DVI-D Dual Link Extension	DVI-D Single Link	DVI-I Single Link
Gold Line 		● 0.5m, 1m, 2m & 3m	● 5m, 7.5m, 10m, 15m & 20m	● 0.5m, 1m, 2m, 3m, 5m & 7.5m	● 10m, 15m & 20m	● 0.5m, 1m, 2m, 3m, 5m, 10m & 15m	○	○	● 0.5m, 1m, 2m, 3m, 5m, 7.5m, 10m, 15m, 20m & 25m	● 2m	● 10m, 15m, 20m & 25m	○
Cromo Line 		● 0.5m, 1m & 2m	● 3m & 5m	● 0.3m, 0.5m, 1m, 2m, 3m & 5m	● 7.5m & 10m	○	○	○	○	○	○	○
Anthra Line 		● 0.5m, 1m, 2m	● 3m & 5m	● 0.3m, 0.5m, 1m, 2m, 3m & 5m	○	○	○	○	● 0.5m, 1m, 2m, 3m, 5m, 7.5m, 10m, 15m & 20m	● 0.5m, 1m, 2m, 3m & 5m	● 10m, 15m, 20m & 25m	○
Black Line 		○	● 0.5m, 1m, 1.5m, 2m & 3m	● 0.5m, 1m, 2m, 3m, 5m	○	● 0.5m, 1m, 2m, 3m, 5m & 10m	● 0.5m, 1m, 2m & 3m	● 0.5m, 1m, 2m & 3m	● 0.5m, 1m, 2m, 3m & 5m	○	● 1m, 2m, 3m, 5m & 10m	● 1m, 2m, 3m & 5m

	USB TYPE C							USB 3.0				USB 2.0				
	USB 3.1 Type C to C,	USB 3.1 Type C to A,	USB 3.1 Type C to A Adapter	USB 2.0 Type C to C	USB 2.0 Type C to A	USB 2.0 Type C to Micro-B	USB 2.0 Type C to A Adapter	USB 3.0 Type A to A	USB 3.0 Type A to B	USB 3.0 Type A to Micro-B	USB 3.0 Type A Extension	USB 2.0 Type A to A	USB 2.0 Type A to B	USB 2.0 Type A to Mini-B	USB 2.0 Type A to Micro-B	USB 2.0 Type A Extension
	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	○	○	○	○	○	○	○	● 0.5m, 1m, 2m, 3m & 5m	● 0.5, 1m, 2m, 3m & 5m	● 0.5m, 1m, 2m & 3m	○	○	● 0.5m, 1m, 2m, 3m, 5m & 7.5m	● 0.5m, 1m, 2m, 3m, 5m & 7.5m	● 0.5m, 1m, 2m, 3m & 5m	○
	● 0.5m, 1m & 1.5m	● 0.5m, 1m & 1.5m	● 0.15m	● 0.5m, 1m, 2m & 3m	● 0.5m, 1m, 2m & 3m	● 0.5, 1m & 2m	● 0.15m	● 0.5m, 1m, 2m, 3m & 5m	● 0.5m, 1m, 2m, 3m & 5m	● 0.5m, 1m, 2m & 3m	● 0.5m, 1m, 2m & 3m	● 0.2m, 0.5m, 1m, 2m, 3m & 5m	● 0.2m, 0.5m, 1m, 2m, 3m, 5m, 7.5m & 10m	● 0.2m, 0.5m, 1m, 2m, 3m & 5m	● 0.2m, 0.5m, 1m, 2m, 3m & 5m	● 0.2m, 0.5m, 1m, 2m, 3m & 5m
	● 0.5m, 1m & 1.5m	● 0.5m, 1m & 1.5m	○	○	○	○	○	○	○	○	○	○	○	○	○	○

● Available
○ Not Available

CABLE LINES – DISPLAYPORT 1.4



**DISPLAYPORT 1.4 CABLE,
GOLD LINE**

CONNECTORS	
Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	24 Gold Plated Zinc Alloy
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	19.7x38.9x12mm (0.77x1.53x0.47in)



**DISPLAYPORT 1.4 CABLE,
CROMO LINE**

Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	Chrome plated ABS
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	19.7x38.9x12mm, (0.77x1.53x0.47in)



**DISPLAYPORT 1.4 CABLE,
ANTHRA LINE**

Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	ABS
Connector Plating	24K Gold 15µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 3µm
Dimensions (approx.) WxDxH	19.7x38.9x12mm (0.78x1.53x0.47in)

CABLE CONSTRUCTION

CABLE CONSTRUCTION	
Standard	DisplayPort 1.4
Type	Round
Jacket Diameter	9mm (0.35in)
Jacket Material	PVC
Conductor Material	OFC Copper
Conductor Gauge	24AWG
Shielding	Copper Braid 85%

SPECIFICATIONS

Supported Bandwidth	32.4Gbps
Maximum Resolution	7680x4320@60Hz 4:2:2 8bit 4096x2160@120Hz 4:4:4 8bit
Nominal Attenuation	300kHz-825MHz <5dB, 825MHz-2.475GHz <5dB, 2.475GHz-4.125GHz <12dB, 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	90mm (3.5in)
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 80°C (-13°F - 176°F)

No. 36290 – 0.5m (1.64ft)
No. 36291 – 1m (3.28ft)
No. 36292 – 2m (6.56ft)
No. 36293 – 3m (9.84ft)

No. 36300 – 0.5m (1.64ft)
No. 36301 – 1m (3.28ft)
No. 36302 – 2m (6.56ft)

No. 36480 – 0.5m (1.64ft)
No. 36481 – 1m (3.28ft)
No. 36482 – 2m (6.56ft)

CABLE LINES – DISPLAYPORT 1.2



**DISPLAYPORT 1.2 CABLE,
GOLD LINE**

CONNECTORS

Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	24 Gold Plated Zinc Alloy
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions [approx.] WxDxH	19.7x38.9x12mm [0.77x1.53x0.47in]

CABLE CONSTRUCTION

Standard	DisplayPort 1.2
Type	Round
Jacket Diameter	9mm [0.35in]
Jacket Material	PVC
Conductor Material	OFC Copper
Conductor Gauge	24AWG
Shielding	Copper Braid 85%

SPECIFICATIONS

Supported Bandwidth	21.6Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 10bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <1.2dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	90mm [3.5in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 80°C (-13°F - 176°F)

No. 36294 – 5m [16.40ft]
No. 36295 – 7.5m [24.61ft]
No. 36296 – 10m [32.81ft]
No. 36297 – 15m [49.21ft]
No. 36298 – 20m [65.62ft]



**DISPLAYPORT 1.2 CABLE,
CROMO LINE**

Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	Chrome plated ABS
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions [approx.] WxDxH	19.7x38.9x12mm [0.77x1.53x0.47in]

**DISPLAYPORT 1.2 CABLE,
CROMO LINE**

Standard	DisplayPort 1.2
Type	Round
Jacket Diameter	7.3mm [0.29in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	28AWG
Shielding	Copper Braid 85%

**DISPLAYPORT 1.2 CABLE,
CROMO LINE**

Supported Bandwidth	21.6Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 10bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <1.2dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	73mm [2.87in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)

No. 36303 – 3m [9.84ft]
No. 36304 – 5m [16.40ft]



**DISPLAYPORT 1.2 CABLE,
ANTHRA LINE**

Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	ABS
Connector Plating	24K Gold 15µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 3µm
Dimensions [approx.] WxDxH	19.7x38.9x12mm [0.78x1.53x0.47in]

**DISPLAYPORT 1.2 CABLE,
ANTHRA LINE**

Standard	DisplayPort 1.2
Type	Round
Jacket Diameter	7.3mm [0.29in]
Jacket Material	PVC
Conductor Material	Copper
Conductor Gauge	27AWG
Shielding	Copper Braid 65%

**DISPLAYPORT 1.2 CABLE,
ANTHRA LINE**

Supported Bandwidth	21.6Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 10bit
Nominal Attenuation	100MHz-450MHz <5.1dB, 450MHz-8100MHz <33.28dB
Minimum Bend Radius	28.4mm [1.12in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)

No. 36483 – 3m [9.84ft]
No. 36484 – 5m [16.40ft]



**DISPLAYPORT 1.2 CABLE,
BLACK LINE**

Connector A	DisplayPort Male
Connector B	DisplayPort Male
Housing Material	ABS
Connector Plating	Nickel
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 3µm
Dimensions [approx.] WxDxH	19.7x38.9x12mm [0.78x1.53x0.47in]

**DISPLAYPORT 1.2 CABLE,
BLACK LINE**

Standard	DisplayPort 1.2
Type	Round
Jacket Diameter	6mm [0.24in]
Jacket Material	PVC
Conductor Material	Copper
Conductor Gauge	30AWG
Shielding	Copper Braid 80%

**DISPLAYPORT 1.2 CABLE,
BLACK LINE**

Supported Bandwidth	21.6Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 10bit
Nominal Attenuation	300kHz-825MHz - <5dB, 825MHz-2.475GHz - <5dB, 2.475GHz-4.125GHz - <1.2dB, 4.125GHz-5.1GHz - <20dB
Minimum Bend Radius	48mm [1.89in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)

No. 36490 – 0.5m [1.64ft]
No. 36491 – 1m [3.28ft]
No. 36494 – 1.5m [4.92ft]
No. 36492 – 2m [6.56ft]
No. 36493 – 3m [9.84ft]

CABLE LINES – HIGH SPEED HDMI



**HIGH SPEED HDMI CABLE,
GOLD LINE**

CONNECTORS	
Connector A	HDMI Type A Male
Connector B	HDMI Type A Male
Housing Material	24K Gold Plated Zinc Alloy
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	20x34.1x11.6mm (0.79x1.34x0.46in)



**HIGH SPEED HDMI CABLE,
CROMO LINE**

Connector A	HDMI Type A Male
Connector B	HDMI Type A Male
Housing Material	Chrome plated ABS
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	20x34x10.6mm (0.79x1.34x0.42in)



**HIGH SPEED HDMI CABLE,
ANTHRA LINE**

Connector A	HDMI Type A Male
Connector B	HDMI Type A Male
Housing Material	PVC
Connector Plating	24K Gold 15µm
Pin Construction	Phosphor Copper
Pin Plating	24K Gold 3µm
Dimensions (approx.) WxDxH	19x34.1x10.8mm (0.75x1.34x0.43in)



**HIGH SPEED HDMI CABLE,
BLACK LINE**

Connector A	HDMI Type A Male
Connector B	HDMI Type A Male
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Phosphor Copper
Pin Plating	Gold Flash
Dimensions (approx.) WxDxH	19x34.1x10.8mm (0.75x1.34x0.43in)

CABLE CONSTRUCTION

Standard	High Speed HDMI with Ethernet
Type	Round
Jacket Diameter	8.5mm (0.33in)
Jacket Material	PVC
Conductor Material	OFC Copper
Conductor Gauge	24AWG
Shielding	Copper Braid 85%

Standard	High Speed HDMI with Ethernet
Type	Round
Jacket Diameter	6mm (0.24in)
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	30AWG
Shielding	Copper Braid 85%

Standard	High Speed HDMI with Ethernet
Type	Round
Jacket Diameter	6mm (0.24in)
Jacket Material	PVC
Conductor Material	Copper
Conductor Gauge	30AWG
Shielding	Copper Braid 65%

Standard	High Speed HDMI with Ethernet
Type	Round
Jacket Diameter	5.5mm (0.22in)
Jacket Material	PVC
Conductor Material	Copper Coated Steel
Conductor Gauge	30AWG
Shielding	Aluminium Foil

SPECIFICATIONS

Supported Bandwidth	18Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 8bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <12dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	85mm (3.35in)
Operating Temperature	-10°C - 80°C (14°F - 176°F)
Storage Temperature	-10°C - 80°C (14°F - 176°F)
ATC Approved	Yes

No. 37860 – 0.5m [1.64ft]
No. 37861 – 1m [3.28ft]
No. 37862 – 2m [6.56ft]
No. 37863 – 3m [9.84ft]
No. 37864 – 5m [16.4ft]
No. 37865 – 7.5m [24.61ft]

Supported Bandwidth	18Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 8bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <12dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	60mm (2.36in)
Operating Temperature	-10°C - 80°C (14°F - 176°F)
Storage Temperature	-10°C - 80°C (14°F - 176°F)
ATC Approved	Yes

No. 37869 – 0.3m [1ft]
No. 37870 – 0.5m [1.64ft]
No. 37871 – 1m [3.28ft]
No. 37872 – 2m [6.56ft]
No. 37873 – 3m [9.84ft]
No. 37874 – 5m [16.4ft]

Supported Bandwidth	18Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 8bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <12dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	48mm (1.89in)
Operating Temperature	-30°C - 80°C (-22°F - 176°F)
Storage Temperature	-10°C - 85°C (14°F - 185°F)
ATC Approved	Yes

No. 36960 – 0.3m [1ft]
No. 36961 – 0.5m [1.64ft]
No. 36962 – 1m [3.28ft]
No. 36963 – 2m [6.56ft]
No. 36964 – 3m [9.84ft]
No. 36965 – 5m [16.40ft]

Supported Bandwidth	18Gbps
Maximum Resolution	4096x2160@60Hz 4:4:4 8bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <12dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	22mm (0.87in)
Operating Temperature	-30°C - 80°C (-22°F - 176°F)
Storage Temperature	-10°C - 85°C (14°F - 185°F)
ATC Approved	Yes

No. 36470 – 0.5m [1.64ft]
No. 36471 – 1m [3.28ft]
No. 36472 – 2m [6.56ft]
No. 36473 – 3m [9.84ft]
No. 36474 – 5m [16.4ft]

CABLE LINES – STANDARD HDMI



**STANDARD HDMI CABLE,
GOLD LINE**

CONNECTORS

Connector A	HDMI Type A Male
Connector B	HDMI Type A Male
Housing Material	24K Gold Plated Zinc Alloy
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions [approx.] WxDxH	20x34.1x11.6mm [0.79x1.34x0.46in]

CABLE CONSTRUCTION

Standard	HDMI with Ethernet
Type	Round
Jacket Diameter	8.5mm [0.33in]
Jacket Material	PVC
Conductor Material	OFC Copper
Conductor Gauge	24AWG
Shielding	Copper Braid 85%

SPECIFICATIONS

Supported Bandwidth	10.2Gbps
Maximum Resolution	4096x2160@60Hz 4:2:0 8bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <12dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	85mm [3.35in]
Operating Temperature	-10°C - 80°C [14°F - 176°F]
Storage Temperature	-10°C - 80°C [14°F - 176°F]
ATC Approved	Yes
	No. 37866 – 10m [32.81ft] No. 37867 – 15m [49.21ft] No. 37868 – 20m [65.62ft]



**STANDARD HDMI CABLE,
CROMO LINE**

Connector A	HDMI Type A Male
Connector B	HDMI Type A Male
Housing Material	Chrome plated ABS
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Copper
Pin Plating	24K Gold 15µm
Dimensions [approx.] WxDxH	20x34x10.6mm [0.79x1.34x0.42in]

Standard	HDMI with Ethernet
Type	Round
Jacket Diameter	8.5mm [0.33in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	26AWG
Shielding	Copper Braid 85%

Supported Bandwidth	10.2Gbps
Maximum Resolution	4096x2160@60Hz 4:2:0 8bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz <5dB 2.475GHz-4.125GHz <12dB 4.125GHz-5.1GHz <20dB
Minimum Bend Radius	60mm [2.36in]
Operating Temperature	-10°C - 80°C [14°F - 176°F]
Storage Temperature	-10°C - 80°C [14°F - 176°F]
ATC Approved	Yes
	No. 37875 – 7.5m [24.61ft] No. 37876 – 10m [32.81ft]

CABLE LINES – HDMI TO DVI



**HDMI TO DVI-D CABLE,
GOLD LINE**

CONNECTORS

Connector A	HDMI Type A Male
Connector B	DVI-D Male (Single Link)
Housing Material	24K Gold Plated Metal
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	HDMI: 20x36x11.2mm (0.78x1.42x0.44in) DVI:39.5x44.5x16.5m (1.55x1.73x0.65in)



**HDMI TO DVI-D CABLE,
BLACK LINE**

Connector A	HDMI Type A Male
Connector B	DVI-D Male (Single Link)
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	HDMI: 19.9x42.5x11.2mm (0.78x1.67x0.44in) DVI:36.8x44.5x12.5mm (1.45x1.75x0.50in)

CABLE CONSTRUCTION

Standard	DVI-D Single Link	DVI-D Single Link
Type	Round	Round
Jacket Diameter	9mm (0.35in)	5.5mm (0.22in)
Jacket Material	PVC	PVC
Conductor Material	OFC Copper	Tinned Copper
Conductor Gauge	24AWG	30AWG
Shielding	Copper Braid 85%	Aluminium/Magnesium Braid 85%

SPECIFICATIONS

Supported Bandwidth	4.95Gbps	4.95Gbps
Maximum Resolution	1920x1200@60Hz	1920x1200@60Hz
Nominal Attenuation	1 - 825Mhz < 8db	1 - 825Mhz < 12db
Minimum Bend Radius	126mm (4.96in)	120mm (4.72in)
Operating Temperature	-20°C - 80°C (-4°F - 176°F)	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)	-25°C - 85°C (-13°F - 185°F)
ATC Approved	-	-

No. 36193 – 0.5m [1.64ft]
 No. 36194 – 1m [3.28ft]
 No. 36195 – 2m [6.56ft]
 No. 36196 – 3m [9.84ft]
 No. 36197 – 5m [16.40ft]
 No. 36198 – 10m [32.81ft]
 No. 36199 – 15m [49.21ft]

No. 36270 – 0.5m [1.64ft]
 No. 36271 – 1m [3.28ft]
 No. 36272 – 2m [6.56ft]
 No. 36273 – 3m [9.84ft]
 No. 36274 – 5m [16.40ft]
 No. 36275 – 10m [32.81ft]

CABLE LINES – MINI HDMI TO DVI



**MINI HDMI TO DVI CABLE,
BLACK LINE**

CONNECTORS

Connector A	HDMI Type C Male
Connector B	DVI-D-Male (Single Link)
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	HDMI: 14.1x33.5x8.3mm [0.56x1.32x0.33in] DVI: 36.8x44.5x12.5mm [1.45x1.75x0.50in]

CABLE CONSTRUCTION

Standard	DVI-D Single Link
Type	Round
Jacket Diameter	4.8mm [0.19in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	32AWG
Shielding	Aluminium/Magnesium Braid 85%

SPECIFICATIONS

Supported Bandwidth	4.95Gbps
Maximum Resolution	1920x1200@60Hz
Nominal Attenuation	1 - 825Mhz < 12db
Minimum Bend Radius	120mm [4.72in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]
ATC Approved	-

No. 36280 – 0.5m [1.64ft]
No. 36281 – 1m [3.28ft]
No. 36282 – 2m [6.56ft]
No. 36283 – 3m [9.84ft]

CABLE LINES – MICRO HDMI TO DVI



**MICRO HDMI TO DVI CABLE,
BLACK LINE**

CONNECTORS

Connector A	HDMI Type D Male
Connector B	DVI-D-Male (Single Link)
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	HDMI: 10.4x26.3x7.3mm [0.41x1.04x0.29in] DVI: 36.8x44.5x12.5mm [1.45x1.75x0.50in]

CABLE CONSTRUCTION

Standard	DVI-D Single Link
Type	Round
Jacket Diameter	4.8mm [0.19in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	32AWG
Shielding	Aluminium/Magnesium Braid 85%

SPECIFICATIONS

Supported Bandwidth	4.95Gbps
Maximum Resolution	1920x1200@60Hz
Nominal Attenuation	1 - 825Mhz < 12db
Minimum Bend Radius	120mm [4.72in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]
ATC Approved	-

No. 36285 – 0.5m [1.64ft]
No. 36286 – 1m [3.28ft]
No. 36287 – 2m [6.56ft]
No. 36288 – 3m [9.84ft]

CABLE LINES – DVI-D DUAL LINK



**DVI-D DUAL LINK CABLE,
GOLD LINE**

CONNECTORS	
Connector A	DVI-D Male (Dual Link)
Connector B	DVI-D Male (Dual Link)
Housing Material	24K Gold Plated Metal
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	39.5x44.5x16.5mm [1.55x1.73x0.65in]



**DVI-D DUAL LINK CABLE,
ANTHRA LINE**

Connector A	DVI-D Male (Dual Link)
Connector B	DVI-D Male (Dual Link)
Housing Material	PVC
Connector Plating	24K Gold 1µm
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	39.5x44.5x16.5mm [1.56x1.75x0.65in]



**DVI-D DUAL LINK CABLE,
BLACK LINE**

Connector A	DVI-D Male (Dual Link)
Connector B	DVI-D Male (Dual Link)
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	36.8x44.5x12.5mm [1.45x1.75x0.50in]

CABLE CONSTRUCTION

Standard	DVI-D Dual Link
Type	36200–36206: Round 36207–36209: Oval
Jacket Diameter	36200–36206: 8.6mm [0.34in] 36207–36209: 11.5x18mm [0.45x0.71in]
Jacket Material	PVC
Conductor Material	OFC Copper
Conductor Gauge	36200–36206: 28AWG 36207–36209: 24AWG
Shielding	Copper Braid 85%

Standard	DVI-D Dual Link
Type	Round
Jacket Diameter	36220–36226: 8.6mm [0.34in] 36227–36228: 12.0mm [0.47in]
Jacket Material	PVC
Conductor Material	Copper
Conductor Gauge	36220–36226: 28AWG 36227–36228: 24AWG
Shielding	Aluminium/Magnesium Braid 75%

Standard	DVI-D Dual Link
Type	Round
Jacket Diameter	8.5mm [0.34in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	28AWG
Shielding	Copper Braid 85%

SPECIFICATIONS

Supported Bandwidth	9.9Gbps
Maximum Resolution	2560x1600@60Hz
Nominal Attenuation	1 - 825Mhz < 8db
Minimum Bend Radius	120mm [4.72in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)

No. 36200 – 0.5m [1.64ft]
 No. 36201 – 1m [3.28ft]
 No. 36202 – 2m [6.56ft]
 No. 36203 – 3m [9.84ft]
 No. 36204 – 5m [16.40ft]
 No. 36205 – 7.5m [24.61ft]
 No. 36206 – 10m [32.81ft]
 No. 36207 – 15m [49.21ft]
 No. 36208 – 20m [65.62ft]
 No. 36209 – 25m [82.02ft]

Supported Bandwidth	9.9Gbps
Maximum Resolution	2560x1600@60Hz
Nominal Attenuation	1 - 825Mhz < 8db
Minimum Bend Radius	86mm [3.39in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)

No. 36220 – 0.5m [1.64ft]
 No. 36221 – 1m [3.28ft]
 No. 36222 – 2m [6.56ft]
 No. 36223 – 3m [9.84ft]
 No. 36224 – 5m [16.40ft]
 No. 36225 – 7.5m [24.61ft]
 No. 36226 – 10m [32.81ft]
 No. 36227 – 15m [49.21ft]
 No. 36228 – 20m [65.62ft]

Supported Bandwidth	9.9Gbps
Maximum Resolution	2560x1600@60Hz
Nominal Attenuation	1 - 825Mhz < 8db
Minimum Bend Radius	120mm [4.72in]
Operating Temperature	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)

No. 36250 – 0.5m [1.64ft]
 No. 36251 – 1m [3.28ft]
 No. 36252 – 2m [6.56ft]
 No. 36253 – 3m [9.84ft]
 No. 36254 – 5m [16.44ft]

CABLE LINES – DVI-D DUAL LINK EXTENSION



CONNECTORS	DVI-D DUAL LINK EXTENSION CABLE, GOLD LINE	DVI-D DUAL LINK EXTENSION CABLE, ANTHRA LINE
Connector A	DVI-D Male (Dual Link)	DVI-D Male (Dual Link)
Connector B	DVI-D Female (Dual Link)	DVI-D Female (Dual Link)
Housing Material	24K Gold Plated Metal	PVC
Connector Plating	24K Gold 3µm	24K Gold 1µm
Pin Construction	Phosphor Bronze	Brass
Pin Plating	24K Gold 15µm	24K Gold 1µm
Dimensions (approx.) WxDxH	39.5x44.5x16.5mm (1.55x1.73x0.65in)	39.5x44.5x16.5mm (1.56x1.75x0.65in)
CABLE CONSTRUCTION	DVI-D Dual Link	DVI-D Dual Link
Standard	DVI-D Dual Link	DVI-D Dual Link
Type	Round	Round
Jacket Diameter	8.6mm (0.34in)	6mm (0.24in)
Jacket Material	PVC	PVC
Conductor Material	OFC Copper	Copper
Conductor Gauge	28AWG	28AWG
Shielding	Copper Braid 85%	Copper Braid 80%
SPECIFICATIONS	DVI-D Dual Link	DVI-D Dual Link
Supported Bandwidth	9.9Gbps	9.9Gbps
Maximum Resolution	2560x1600@60Hz	2560x1600@60Hz
Nominal Attenuation	1 - 825Mhz < 8db	1 - 825Mhz < 8db
Minimum Bend Radius	120mm (4.72in)	86mm (3.39in)
Operating Temperature	-20°C - 80°C (-4°F - 176°F)	-20°C - 80°C (-4°F - 176°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)	-25°C - 85°C (-13°F - 185°F)
	No. 36212 – 2m (6.56ft)	No. 36230 – 0.5m (1.64ft) No. 36231 – 1m (3.28ft) No. 36232 – 2m (6.56ft) No. 36233 – 3m (9.84ft) No. 36234 – 5m (16.44ft)

CABLE LINES – DVI-D SINGLE LINK



**DVI-D SINGLE LINK CABLE,
GOLD LINE**

CONNECTORS	
Connector A	DVI-D Male (Single Link)
Connector B	DVI-D Male (Single Link)
Housing Material	24K Gold Plated Metal
Connector Plating	24K Gold 3µm
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold 15µm
Dimensions (approx.) WxDxH	39.5x44.5x16.5mm [1.55x1.73x0.65in]



**DVI-D SINGLE LINK CABLE,
ANTHRA LINE**

Connector A	DVI-D Male (Single Link)
Connector B	DVI-D Male (Single Link)
Housing Material	PVC
Connector Plating	24K Gold 1µm
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	39.5x44.5x16.5mm [1.56x1.75x0.65in]



**DVI-D SINGLE LINK CABLE,
BLACK LINE**

Connector A	DVI-D Male (Single Link)
Connector B	DVI-D Male (Single Link)
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions (approx.) WxDxH	36.8x44.5x12.5mm [1.45x1.75x0.50in]

CABLE CONSTRUCTION

CABLE CONSTRUCTION	
Standard	DVI-D Single Link
Type	Round
Jacket Diameter	9mm [0.35in]
Jacket Material	PVC
Conductor Material	OFC Copper
Conductor Gauge	24AWG
Shielding	Copper Braid 85%
Standard	DVI-D (Single Link)
Type	Round
Jacket Diameter	9.5mm [0.37in]
Jacket Material	PVC
Conductor Material	Copper
Conductor Gauge	24AWG
Shielding	Aluminium/Magnesium Braid 75%
Standard	DVI-D Single Link
Type	Round
Jacket Diameter	7.3mm [0.29in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	28AWG
Shielding	Aluminium/Magnesium Braid 85%

SPECIFICATIONS

Supported Bandwidth	4.95Gbps	4.95Gbps	4.95Gbps
Maximum Resolution	1920x1200@60Hz	1920x1200@60Hz	1920x1200@60Hz
Nominal Attenuation	1 - 825Mhz < 8db	1 - 825Mhz < 8db	1 - 825Mhz < 8db
Minimum Bend Radius	126mm [4.96in]	95mm [3.74in]	120mm [4.72in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]	-20°C - 80°C [-4°F - 176°F]	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]	-25°C - 85°C [-13°F - 185°F]	-25°C - 85°C [-13°F - 185°F]
	No. 36215 - 10m [32.81ft] No. 36216 - 15m [49.21ft] No. 36217 - 20m [65.62ft] No. 36218 - 25m [82.02ft]	No. 36240 - 10m [32.81ft] No. 36241 - 15m [49.21ft] No. 36242 - 20m [65.62ft] No. 36243 - 25m [82.02ft]	No. 36255 - 1m [3.28ft] No. 36256 - 2m [6.56ft] No. 36257 - 3m [9.84ft] No. 36258 - 5m [16.44ft] No. 36259 - 10m [32.81ft]

CABLE LINES – DVI-I SINGLE LINK



DVI-I SINGLE LINK CABLE, BLACK LINE

CONNECTORS

Connector A	DVI-I Male (Single Link)
Connector B	DVI-I Male (Single Link)
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Brass
Pin Plating	24K Gold 1µm
Dimensions [approx.] WxDxH	36.8x44.5x12.5mm [1.45x1.75x0.50in]

CABLE CONSTRUCTION

Standard	DVI-I Single Link
Type	Round
Jacket Diameter	8mm [0.32in]
Jacket Material	PVC
Conductor Material	Bare Copper
Conductor Gauge	30AWG
Shielding	Aluminium/Magnesium Braid 75%

SPECIFICATIONS

Supported Bandwidth	4.95Gbps
Maximum Resolution	1920x1200@60Hz
Nominal Attenuation	1 - 825Mhz < 12db
Minimum Bend Radius	120mm [4.72in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36260 – 1m [3.28ft]
No. 36261 – 2m [6.56ft]
No. 36262 – 3m [9.84ft]
No. 36263 – 5m [16.44ft]

CABLE LINES – USB 3.1 TYPE C TO C



USB 3.1 TYPE C TO C CABLE, 5A, ANTHRA LINE

CONNECTORS	
Connector A	USB Type C Male
Connector B	USB Type C Male
Housing Material	PVC
Connector Plating	24K Gold plated
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold plated
Dimensions (approx.) WxDxH	12.7x30.8x7.3mm [0.5x1.21x0.29in]

CABLE CONSTRUCTION

Standard	USB 3.1
Type	Round
Jacket Diameter	4.8mm [0.19in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	24/30/32AWG
Shielding	Tinned Copper Braid 85%

SPECIFICATIONS

Supported Bandwidth	10Gbps
Maximum Resolution	-
Nominal Attenuation	0.5Mhz – 15Ghz < 40db
Minimum Bend Radius	48mm [1.89in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36900 – 0.5m [1.64ft]
 No. 36901 – 1m [3.28ft]
 No. 36902 – 1.5m [4.92ft]



USB 3.1 TYPE C TO C CABLE, BLACK LINE

Connector A	USB Type C Male
Connector B	USB Type C Male
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold plated
Dimensions (approx.) WxDxH	11.0x25.0x7.3mm [0.43x0.98x0.29in]

Standard	USB 3.1
Type	Round
Jacket Diameter	4.5mm [0.18in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	26/30AWG
Shielding	Tinned Copper Braid 75%

Supported Bandwidth	10Gbps
Maximum Resolution	-
Nominal Attenuation	0.5Mhz – 15Ghz < 40db
Minimum Bend Radius	45mm [1.77in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36905 – 0.5m [1.64ft]
 No. 36906 – 1m [3.28ft]
 No. 36907 – 1.5m [4.92ft]

CONNECTORS

Connector A	USB Type C Male
Connector B	USB Type C Male
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold plated
Dimensions (approx.) WxDxH	11.0x25.0x7.3mm [0.43x0.98x0.29in]

CABLE CONSTRUCTION

Standard	USB 3.1
Type	Round
Jacket Diameter	4.5mm [0.18in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	26/30AWG
Shielding	Tinned Copper Braid 75%

SPECIFICATIONS

Supported Bandwidth	10Gbps
Maximum Resolution	-
Nominal Attenuation	0.5Mhz – 15Ghz < 40db
Minimum Bend Radius	45mm [1.77in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

CABLE LINES – USB 3.1 TYPE C TO A



USB 3.1 TYPE C TO A CABLE, 5A, ANTHRA LINE

USB Type C Male
USB Type A Male
PVC
24K Gold plated
Phosphor Bronze
24K Gold plated
A: 15.5x35x7.8mm (0.61x1.38x0.31in)
C: 12.7x30.8x7.3mm (0.5x1.21x0.29in)



USB 3.1 TYPE C TO C CABLE, BLACK LINE

USB Type C Male
USB Type A Male
PVC
Nickel
Phosphor Bronze
24K Gold plated
A: 15.5x35x7.8mm (0.61x1.38x0.31in)
C: 11.0x25.0x7.3mm (0.43x0.98x0.29in)

USB 3.1
Round
4.5mm (0.18in)
PVC
Tinned Copper
24/30/32AWG
Tinned Copper Braid 85%

USB 3.1
Round
4.5mm (0.18in)
PVC
Tinned Copper
26/30AWG
Aluminium/Magnesium Braid 85%

10Gbps
-
0.5Mhz - 15Ghz < 40db
45mm (1.77in)
-20°C - 80°C (-4°F - 176°F)
-25°C - 85°C (-13°F - 185°F)

10Gbps
-
0.5Mhz - 15Ghz < 40db
45mm (1.77in)
-20°C - 80°C (-4°F - 176°F)
-25°C - 85°C (-13°F - 185°F)

No. 36910 – 0.5m [1.64ft]
No. 36911 – 1m [3.28ft]
No. 36912 – 1.5m [4.92ft]

No. 36915 – 0.5m [1.64ft]
No. 36916 – 1m [3.28ft]
No. 36917 – 1.5m [4.92ft]

CABLE LINES – USB TYPE C TO A



USB 3.1 TYPE C TO A CABLE, ANTHRA LINE

CONNECTORS

Connector A
Connector B
Housing Material
Connector Plating
Pin Construction
Pin Plating
Dimensions (approx.) WxDxH

USB Type C Male
USB Type A Female
PVC
24K Gold plated
Phosphor Bronze
24K Gold plated
A: 17.0x35.0x9.8mm (0.67x1.38x0.39in)
C: 11.0x21.65x7.3mm (0.43x0.85x0.29in)

CABLE CONSTRUCTION

Standard
Type
Jacket Diameter
Jacket Material
Conductor Material
Conductor Gauge
Shielding

USB 3.1
Round
4.5mm (0.18in)
PVC
Tinned Copper
26/30/30AWG
Aluminium/Magnesium Braid 85%

SPECIFICATIONS

Supported Bandwidth
Maximum Resolution
Nominal Attenuation
Minimum Bend Radius
Operating Temperature
Storage Temperature

10Gbps
-
0.5Mhz - 15Ghz < 40db
45mm (1.77in)
-20°C - 80°C (-4°F - 176°F)
-25°C - 85°C (-13°F - 185°F)

No. 36895 – 0.15m [0.5ft]

CABLE LINES – USB 2.0 TYPE C TO C



**USB 2.0 TYPE C TO C CABLE,
ANTHRA LINE**

CONNECTORS

Connector A	USB Type C Male
Connector B	USB Type C Male
Housing Material	PVC
Connector Plating	24K Gold plated
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold plated
Dimensions (approx.) WxDxH	11.0x21.65x7.3mm [0.43x0.85x0.29in]

CABLE CONSTRUCTION

Standard	USB 2.0
Type	Round
Jacket Diameter	4.5mm [0.18in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	24/28/32AWG
Shielding	Aluminium/Magnesium Braid 85%

SPECIFICATIONS

Supported Bandwidth	480Mbps
Maximum Resolution	-
Nominal Attenuation	0.5Mhz - 400Mhz < 5.8db
Minimum Bend Radius	45mm [1.77in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36870 – 0.5m [1.64ft]
 No. 36871 – 1m [3.28ft]
 No. 36872 – 2m [6.56ft]
 No. 36873 – 3m [9.84ft]

CABLE LINES – USB 2.0 TYPE C TO MICRO-B



**USB 2.0 TYPE C TO MICRO-B CABLE,
ANTHRA LINE**

CONNECTORS

Connector A	USB Type C Male
Connector B	USB Type Micro-B Male
Housing Material	PVC
Connector Plating	24K Gold plated
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold plated
Dimensions (approx.) WxDxH	Micro-B: 15.5x35x7.8mm [0.61x1.38x0.31in] C: 11.0x21.65x7.3mm [0.43x0.85x0.29in]

CABLE CONSTRUCTION

Standard	USB 2.0
Type	Round
Jacket Diameter	3.5mm [0.14in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	28/28AWG
Shielding	Aluminium/Magnesium Braid 60%

SPECIFICATIONS

Supported Bandwidth	480Mbps
Maximum Resolution	-
Nominal Attenuation	0.5Mhz - 400Mhz < 5.8db
Minimum Bend Radius	35mm [1.38in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36890 – 0.5m [1.64ft]
 No. 36891 – 1m [3.28ft]
 No. 36892 – 2m [6.56ft]

CABLE LINES – USB 2.0 TYPE C TO A



USB 2.0 TYPE C TO A CABLE, ANTHRA LINE

CONNECTORS

Connector A	USB Type C Male
Connector B	USB Type A Female
Housing Material	PVC
Connector Plating	24K Gold plated
Pin Construction	Phosphor Bronze
Pin Plating	24K Gold plated
Dimensions (approx.) WxDxH	A: 17.0x35.0x9.8mm [0.67x1.38x0.39in] C: 11.0x21.65x7.3mm [0.43x0.85x0.29in]

CABLE CONSTRUCTION

Standard	USB 2.0
Type	Round
Jacket Diameter	3.5mm [0.14in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	28/28AWG
Shielding	Aluminium/Magnesium Braid 60%

SPECIFICATIONS

Supported Bandwidth	480Mbps
Maximum Resolution	-
Nominal Attenuation	0.5Mhz – 400Mhz < 5.8db
Minimum Bend Radius	35mm [1.38in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36897 – 0.15m (0.5ft)

CABLE LINES – USB 3.0 TYPE A TO A



CONNECTORS

	USB 3.0 TYPE A TO A CABLE, CROMO LINE	USB 3.0 TYPE A TO A CABLE, ANTHRA LINE
Connector A	USB 3.0 Type A Male	USB 3.0 Type A Male
Connector B	USB 3.0 Type A Male	USB 3.0 Type A Male
Housing Material	Chrome Plated, ABS	PVC
Connector Plating	Gold 1µm	Gold Plated
Pin Construction	Phosphor Bronze	Copper
Pin Plating	Gold 3µm	Gold Plated
Dimensions (approx.) WxDxH	15.5x35x7.8mm (0.61x1.38x0.31in)	12.0x20x4.5mm (0.47x0.79x0.18in)

CABLE CONSTRUCTION

	USB 3.0	USB 3.0
Standard	USB 3.0	USB 3.0
Type	Round	Round
Jacket Diameter	5.5mm (0.22in)	5.5mm (0.22in)
Jacket Material	PVC	PVC
Conductor Material	Tinned Copper	Tinned Copper
Conductor Gauge	24/28/28AWG	24/28/30AWG
Shielding	Copper Braid 65%	Aluminium Braid 85%

SPECIFICATIONS

	USB 3.0	USB 3.0
Supported Bandwidth	5Gbps	5Gbps
Maximum Resolution	-	-
Nominal Attenuation	0.5-3m: 0.5MHz-7.5GHz<25DB 5m: 0.5MHz-7.5GHz<32DB	0.5MHz-7.5GHz<25DB
Minimum Bend Radius	55mm (2.2in)	48mm (1.89in)
Operating Temperature	-20°C - 80°C (-4°F - 176°F)	0°C - 60°C (32°F - 140°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)	0°C - 60°C (32°F - 140°F)

No. 36625 – 0.5m [1.64ft]
 No. 36626 – 1m [3.28ft]
 No. 36627 – 2m [6.56ft]
 No. 36628 – 3m [9.84ft]
 No. 36629 – 5m [16.40ft]

No. 36750 – 0.5m [1.64ft]
 No. 36751 – 1m [3.28ft]
 No. 36752 – 2m [6.56ft]
 No. 36753 – 3m [9.84ft]
 No. 36754 – 5m [16.40ft]

CABLE LINES – USB 3.0 TYPE A TO B



CONNECTORS	USB 3.0 TYPE A TO B CABLE, CROMO LINE	USB 3.0 TYPE A TO B CABLE, ANTHRA LINE
Connector A	USB 3.0 Type A Male	USB 3.0 Type A Male
Connector B	USB 3.0 Type B Male	USB 3.0 Type B Male
Housing Material	Chrome Plated, ABS	PVC
Connector Plating	Gold 1µm	Gold Plated
Pin Construction	Phosphor Bronze	Copper
Pin Plating	Gold 3µm	Gold Plated
Dimensions [approx.] WxDxH	A: 15.5x35x7.8mm (0.61x1.38x0.31in) B: 12.2x35x13.5mm (0.48x1.38x0.53in)	A: 12.0x20x4.5mm (0.47x0.79x0.18in) B: 8.0x21.7x6.5mm (0.32x0.85x0.26in)
CABLE CONSTRUCTION		
Standard	USB 3.0	USB 3.0
Type	Round	Round
Jacket Diameter	5.5mm [0.22in]	5.5mm [0.22in]
Jacket Material	PVC	PVC
Conductor Material	Tinned Copper	Tinned Copper
Conductor Gauge	24/28/28AWG	24/28/30AWG
Shielding	Copper Braid 65%	Aluminium Braid 85%
SPECIFICATIONS		
Supported Bandwidth	5Gbps	5Gbps
Maximum Resolution	-	-
Nominal Attenuation	0.5-3m: 0.5MHz-7.5GHz<25DB 5m: 0.5MHz-7.5GHz<32DB	0.5MHz-7.5GHz<25DB
Minimum Bend Radius	55mm [2.2in]	48mm [1.89in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]	0°C - 60°C [32°F - 140°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]	0°C - 60°C [32°F - 140°F]
	No. 36660 – 0.5m [1.64ft] No. 36661 – 1m [3.28ft] No. 36662 – 2m [6.56ft] No. 36663 – 3m [9.84ft] No. 36664 – 5m [16.40ft]	No. 36740 – 0.5m [1.64ft] No. 36741 – 1m [3.28ft] No. 36742 – 2m [6.56ft] No. 36743 – 3m [9.84ft] No. 36744 – 5m [16.40ft]

CABLE LINES – USB 3.0 TYPE A TO MICRO-B



**USB 3.0 TYPE A TO MICRO-B CABLE,
CROMO LINE**

CONNECTORS

Connector A	USB 3.0 Type A Male
Connector B	USB 3.0 Type Micro-B Male
Housing Material	Chrome Plated, ABS
Connector Plating	Gold 1µm
Pin Construction	Phosphor Bronze
Pin Plating	Gold 3µm
Dimensions (approx.) WxDxH	A: 15.5x35x7.8mm [0.61x1.38x0.31in] Micro-B: 15.75x26x7.8mm [0.62x1.03x0.31in]

CABLE CONSTRUCTION

Standard	USB 3.0
Type	Round
Jacket Diameter	5.5mm [0.22in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	24/28/28AWG
Shielding	Copper Braid 65%

SPECIFICATIONS

Supported Bandwidth	5Gbps
Maximum Resolution	-
Nominal Attenuation	0.5MHz-7.5GHz<25DB
Minimum Bend Radius	55mm [2.2in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36656 – 0.5m [1.64ft]
No. 36657 – 1m [3.28ft]
No. 36658 – 2m [6.56ft]
No. 36659 – 3m [9.84ft]



**USB 3.0 TYPE A TO MICRO-B CABLE,
ANTHRA LINE**

Connector A	USB 3.0 Type A Male
Connector B	USB 3.0 Type Micro-B Male
Housing Material	PVC
Connector Plating	Gold Plated
Pin Construction	Copper
Pin Plating	Gold Plated
Dimensions (approx.) WxDxH	A: 12.0x20x4.5mm [0.47x0.79x0.18in] Micro-B: 15.75x26.0x7.8mm [0.62x1.02x0.31in]

Standard	USB 3.0
Type	Round
Jacket Diameter	5.5mm [0.22in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	24/28/30AWG
Shielding	Aluminium Braid 85%

Supported Bandwidth	5Gbps
Maximum Resolution	-
Nominal Attenuation	0.5MHz-7.5GHz<25DB
Minimum Bend Radius	48mm [1.89in]
Operating Temperature	0°C - 60°C [32°F - 140°F]
Storage Temperature	0°C - 60°C [32°F - 140°F]

No. 36765 – 0.5m [1.64ft]
No. 36766 – 1m [3.28ft]
No. 36767 – 2m [6.56ft]
No. 36768 – 3m [9.84ft]

CABLE LINES – USB 3.0 TYPE A EXTENSION



USB 3.0 TYPE A EXTENSION CABLE, ANTHRA LINE

CONNECTORS

Connector A	USB 3.0 Type A Male
Connector B	USB 3.0 Type A Female
Housing Material	PVC
Connector Plating	Gold Plated
Pin Construction	Copper
Pin Plating	Gold Plated
Dimensions [approx.] WxDxH	AM: 12.0x20x4.5mm (0.47x0.79x0.18in) AF: 14.7x18.6x7.0mm (0.58x0.73x0.28in)

CABLE CONSTRUCTION

Standard	USB 3.0
Type	Round
Jacket Diameter	5.5mm (0.22in)
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	24/28/30AWG
Shielding	Aluminium Braid 85%

SPECIFICATIONS

Supported Bandwidth	5Gbps
Maximum Resolution	-
Nominal Attenuation	0.5MHz-7.5GHz<25DB
Minimum Bend Radius	48mm (1.89in)
Operating Temperature	0°C - 60°C (32°F - 140°F)
Storage Temperature	0°C - 60°C (32°F - 140°F)

No. 36760 – 0.5m [1.64ft]
No. 36761 – 1m [3.28ft]
No. 36762 – 2m [6.56ft]
No. 36763 – 3m [9.84ft]

CABLE LINES – USB 2.0 TYPE A TO A



**USB 2.0 TYPE A TO A CABLE,
ANTHRA LINE**

CONNECTORS

Connector A	USB 2.0 Type A Male
Connector B	USB 2.0 Type A Male
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Copper
Pin Plating	Gold
Dimensions (approx.) WxDxH	12.0x36x4.5mm [0.47x1.42x0.18in]

CABLE CONSTRUCTION

Standard	USB 2.0
Type	Round
Jacket Diameter	4.4mm [0.17in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	26/28AWG
Shielding	Aluminium Magnesium Braid

SPECIFICATIONS

Supported Bandwidth	480Mbps
Maximum Resolution	-
Nominal Attenuation	0.5-400MHz < 5.8db
Minimum Bend Radius	16mm [0.63in]
Operating Temperature	0°C - 60°C [32°F - 140°F]
Storage Temperature	0°C - 60°C [32°F - 140°F]

No. 36690 – 0.2m [0.66ft]
 No. 36691 – 0.5m [1.64ft]
 No. 36692 – 1m [3.28ft]
 No. 36693 – 2m [6.56ft]
 No. 36694 – 3m [9.84ft]
 No. 36695 – 5m [16.44ft]

CABLE LINES – USB 2.0 TYPE A TO B



**USB 2.0 TYPE A TO B CABLE,
CROMO LINE**

CONNECTORS

Connector A	USB 2.0 Type A Male
Connector B	USB 2.0 Type B Male
Housing Material	Chrome Plated, ABS
Connector Plating	Gold 1µm
Pin Construction	Phosphor Bronze
Pin Plating	Gold 3µm
Dimensions (approx.) WxDxH	A: 15.5x35x7.8mm [0.61x1.38x0.31in] B: 11.8x35x10.2mm [0.47x1.38x0.40in]

CABLE CONSTRUCTION

Standard	USB 2.0
Type	Round
Jacket Diameter	4.6mm [0.18in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	24/28AWG
Shielding	Copper Braid 85%

SPECIFICATIONS

Supported Bandwidth	480Mbps
Maximum Resolution	-
Nominal Attenuation	0.5-5m: 0.5-400MHz < 5.8db 7.5m: 0.5-400MHz < 7.0db
Minimum Bend Radius	55mm [2.2in]
Operating Temperature	-20°C - 80°C [-4°F - 176°F]
Storage Temperature	-25°C - 85°C [-13°F - 185°F]

No. 36640 – 0.5m [1.64ft]
 No. 36641 – 1m [3.28ft]
 No. 36642 – 2m [6.56ft]
 No. 36643 – 3m [9.84ft]
 No. 36644 – 5m [16.44ft]
 No. 36645 – 7.5m [24.61ft]

CABLE LINES – USB 2.0 TYPE A TO MINI-B



**USB 2.0 TYPE A TO B CABLE,
ANTHRA LINE**

USB 2.0 Type A Male
USB 2.0 Type B Male
PVC
Nickel
Copper
Gold
A: 12.0x36x4.5mm (0.47x1.42x0.18in) B: 6.6x34.4x7.3mm (0.26x1.35x0.29in)

USB 2.0
Round
4.4mm (0.17in)
PVC
Tinned Copper
26/28AWG
Aluminium Magnesium Braid

480Mbps
-
0.5-400MHz < 5.8db
16mm (0.63in)
0°C - 60°C (32°F - 140°F)
0°C - 60°C (32°F - 140°F)

No. 36670 – 0.2m [0.66ft]
No. 36671 – 0.5m [1.64ft]
No. 36672 – 1m [3.28ft]
No. 36673 – 2m [6.56ft]
No. 36674 – 3m [9.84ft]
No. 36675 – 5m [16.44ft]
No. 36676 – 7.5m [24.61ft]
No. 36677 – 10m [32.81ft]



**USB 2.0 TYPE A TO MINI-B CABLE,
CROMO LINE**

USB 2.0 Type A Male
USB 2.0 Type Mini-B Male
Chrome Plated, ABS
Gold 1µm
Phosphor Bronze
Gold 3µm
A: 15.5x35x7.8mm (0.61x1.38x0.31in) Mini-B: 10x24x7.5mm (0.39x0.95x0.30in)

USB 2.0
Round
4.0mm (0.16in)
PVC
Tinned Copper
24/28AWG
Copper Braid 70%

480Mbps
-
0.5-5m: 0.5-400MHz < 5.8db 7.5m: 0.5-400MHz < 7.0db
55mm (2.2in)
-20°C - 80°C (-4°F - 176°F)
-25°C - 85°C (-13°F - 185°F)

No. 36630 – 0.5m [1.64ft]
No. 36631 – 1m [3.28ft]
No. 36632 – 2m [6.56ft]
No. 36633 – 3m [9.84ft]
No. 36634 – 5m [16.44ft]
No. 36635 – 7.5m [24.61ft]



**USB 2.0 TYPE A TO MINI-B CABLE,
ANTHRA LINE**

USB 2.0 Type A Male
USB 2.0 Type Mini-B Male
PVC
Nickel
Copper
Gold
A: 12.0x36x4.5mm (0.47x1.42x1.42in) Mini-B: 6.8x32.8x3.0mm (0.27x1.29x0.12in)

USB 2.0
Round
3.8mm (0.15in)
PVC
Tinned Copper
28/28AWG
Aluminium Magnesium Braid

480Mbps
-
0.5-400MHz < 5.8db
16mm (0.63in)
0°C - 60°C (32°F - 140°F)
0°C - 60°C (32°F - 140°F)

No. 36720 – 0.2m [0.7ft]
No. 36721 – 0.5m [1.64ft]
No. 36722 – 1m [3.28ft]
No. 36723 – 2m [6.56ft]
No. 36724 – 3m [9.84ft]
No. 36725 – 5m [16.44ft]

CONNECTORS

Connector A
Connector B
Housing Material
Connector Plating
Pin Construction
Pin Plating
Dimensions (approx.) WxDxH

CABLE CONSTRUCTION

Standard
Type
Jacket Diameter
Jacket Material
Conductor Material
Conductor Gauge
Shielding

SPECIFICATIONS

Supported Bandwidth
Maximum Resolution
Nominal Attenuation
Minimum Bend Radius
Operating Temperature
Storage Temperature

CABLE LINES – USB 2.0 TYPE A TO MICRO-B



**USB 2.0 TYPE A TO MICRO-B CABLE,
CROMO LINE**

CONNECTORS	
Connector A	USB 2.0 Type A Male
Connector B	USB 2.0 Type Micro-B Male
Housing Material	Chrome Plated, ABS
Connector Plating	Gold 1µm
Pin Construction	Phosphor Bronze
Pin Plating	Gold 3µm
Dimensions (approx.) WxDxH	A: 15.5x35x7.8mm (0.61x1.38x0.31in) Micro-B: 10x24x7.5mm (0.39x0.95x0.30in)



**USB 2.0 TYPE A TO MICRO-B CABLE,
ANTHRA LINE**

Connector A	USB 2.0 Type A Male
Connector B	USB 2.0 Type Micro-B Male
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Copper
Pin Plating	Gold
Dimensions (approx.) WxDxH	A: 12.0x36x4.5mm (0.47x1.42x0.18in) Micro-B: 4.8x16.4x3.3mm (0.19x0.65x0.13in)

CABLE CONSTRUCTION

Standard	USB 2.0	USB 2.0
Type	Round	Round
Jacket Diameter	4.0mm (0.16in)	3.5mm (0.14in)
Jacket Material	PVC	PVC
Conductor Material	Tinned Copper	Tinned Copper
Conductor Gauge	24/28AWG	28/28AWG
Shielding	Copper Braid 70%	Aluminium Magnesium Braid

SPECIFICATIONS

Supported Bandwidth	480Mbps	480Mbps
Maximum Resolution	-	-
Nominal Attenuation	0.5-400MHz < 5.8db	0.5-400MHz < 5.8db
Minimum Bend Radius	55mm (2.2in)	16mm (0.63in)
Operating Temperature	-20°C - 80°C (-4°F - 176°F)	0°C - 60°C (32°F - 140°F)
Storage Temperature	-25°C - 85°C (-13°F - 185°F)	0°C - 60°C (32°F - 140°F)

No. 36650 – 0.5m (1.64ft)
No. 36651 – 1m (3.28ft)
No. 36652 – 2m (6.56ft)
No. 36653 – 3m (9.84ft)
No. 36654 – 5m (16.44ft)

No. 36730 – 0.2m (0.66ft)
No. 36731 – 0.5m (1.64ft)
No. 36732 – 1m (3.28ft)
No. 36733 – 2m (6.56ft)
No. 36734 – 3m (9.84ft)
No. 36735 – 5m (16.44ft)

CABLE LINES – USB 2.0 TYPE A EXTENSION



USB 2.0 TYPE A EXTENSION CABLE, ANTHRA LINE

CONNECTORS

Connector A	USB 2.0 Type A Male
Connector B	USB 2.0 Type A Female
Housing Material	PVC
Connector Plating	Nickel
Pin Construction	Copper
Pin Plating	Gold
Dimensions [approx.] WxDxH	A [M]: 12.0x36x4.5mm [0.47x1.42x0.18in] A [F]: 14.5x17.4x5.1mm [0.57x0.69x0.20in]

CABLE CONSTRUCTION

Standard	USB 2.0
Type	Round
Jacket Diameter	4.4mm [0.17in]
Jacket Material	PVC
Conductor Material	Tinned Copper
Conductor Gauge	26/28AWG
Shielding	Aluminium Magnesium Braid

SPECIFICATIONS

Supported Bandwidth	480Mbps
Maximum Resolution	-
Nominal Attenuation	0.5-400MHz < 5.8db
Minimum Bend Radius	16mm [0.63in]
Operating Temperature	0°C - 60°C [32°F - 140°F]
Storage Temperature	0°C - 60°C [32°F - 140°F]

No. 36700 – 0.2m [0.66ft]
 No. 36701 – 0.5m [1.64ft]
 No. 36702 – 1m [3.28ft]
 No. 36703 – 2m [6.56ft]
 No. 36704 – 3m [9.84ft]
 No. 36705 – 5m [16.44ft]





CONVERTING

To allow devices to communicate with one another, it's necessary to convert a wide range of protocols between different interfaces. Thanks to our many years of experience, we are thoroughly familiar with protocol converters of this kind and rely exclusively on the latest technologies to ensure that our customers benefit from the best possible solutions.

SCENARIOS, PRODUCTS & TECHNICAL INFORMATION

DONGLE RANGE

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BOX RANGE

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MST HUB RANGE

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HDMI TO VGA & AUDIO CONVERTER
No. 38285

AV CONVERSION

HDMI TO VGA AND AUDIO

The ideal solution for using older VGA displays or projectors that lack modern digital interfaces. This converter has been developed to prevent these proven units, many of which work very reliably, from becoming obsolete when installing a new source device that hasn't got a VGA port. While converting the video signal from the HDMI stream, it also extracts and decodes the stereo audio signal and sends it to an integrated analogue audio port. This allows for continued use of the integrated speaker found in some VGA displays or connection to external speakers.

**HIGH RESOLUTION DIGITAL IN ►
HDMI CONNECTOR**

A video bandwidth of 10.2 Gbps enables input resolutions up to 1920x1200p at 60Hz with a colour depth of 12 bits per channel so that high resolution content with brilliant colours can also be enjoyed.



**▼ ANALOGUE AUDIO AND POWER
3.5MM AUDIO CONNECTOR AND USB MICRO B**

For sending signals to passive or analogue pairs of speakers or headphones. Also ideal for extracting the audio signal, for example from music videos. Unfortunately, not all video cards supply the power required by the HDMI specs. When this happens, the converter can be operated using a standard mains adapter with a micro USB connector.



**◀ HIGH RESOLUTION ANALOGUE OUT
VGA OUTPUT**

Many proven old VGA ports are still in use. For example, if you want to use a Raspberry Pi with a legacy VGA display for surveillance purposes, this converter is ideal.

18G VIA PLUG & PLAY DISPLAYPORT TO HDMI

This active DisplayPort to HDMI converter is the perfect way to connect 4K displays and TVs with an HDMI connector to DisplayPort compatible video cards. Designed for direct connection between a DisplayPort 1.2 port and an HDMI cable that supports 4K resolutions as per the HDMI 2.0 specification. 4K multi monitor technologies including AMD EyeFinity, 2D NVIDIA Surround and Intel Collage are supported, as well as the transfer of content protected by HDCP 2.2 or 1.4.

DISPLAYPORT 1.2 TO HDMI 2.0
18G ACTIVE CONVERTER
No. 41068



**FULL BANDWIDTH ►
4K WITH UP TO 8BPC**

A video bandwidth of 18Gbps, DisplayPort 1.2 and HDMI 2.0 allow input resolutions up to 3840x2160p at 60Hz with a 4:4:4 colour space and a colour depth of eight bits per channel. The converter therefore ensures outstandingly vibrant colours and rich detail.



**▲ QUICK & EASY
DISPLAYPORT CONNECTION**

The converter features easy plug & play use, dispensing completely with configuration and setup. Simply plug it in to the video card and connect to an HDMI cable and display and you're good to go.

CONVERT EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR DONGLE RANGE



HDMI 2.0 4K EDID EMULATOR

This compact adapter has been specially designed for applications that depend on the reliable availability of EDID information. It saves and emulates a display's EDID so sources won't alter or deactivate their signals if there is a problem: ideal for use with AV/KVM extenders, switches and even splitters. Adapters of this kind are also useful with IP solutions involving remote access to a PC or server, to prevent its video cards from interrupting their output. Featuring a maximum resolution of Ultra HD 4K at 60Hz and HDCP 2.2, it is suited for all modern IT and AV applications.

No. 32115



HDMI TO DISPLAYPORT 4K CONVERTER

This handy adapter converts HDMI signals to DisplayPort for connecting HDMI sources like laptops, desktop computers, Blu-Ray players, cameras and many others to DisplayPort target devices such as displays and projectors. As this technology supports Ultra HD 4K, crystal clear, brilliant images are ensured for editing high resolution 4K videos, CAD applications, animations etc.

No. 38146



HDMI TO VGA CONVERTER

This adapter converts signals from an HDMI source into an analogue VGA signal. It supports resolutions up to 1080p and 1920x1200 for PC VGA displays. This enables the user to connect modern HDMI capable devices to an older VGA display or projector. The converter can also be used to add another display to extend the available desktop workspace. It is also ideally suited for travelling, as it is small and lightweight and allows convenient plug & play installation for any device.

No. 38291



DISPLAYPORT TO DVI-D CONVERTER

This adapter cable makes it possible to attach DVI displays and other DVI-D target devices to sources with a DisplayPort output port. It automatically converts DisplayPort signals into DVI-D signals to permit the use of existing DVI devices with modern DisplayPort equipment. The benefit is that multimedia content can be quickly and conveniently – thanks to plug & play installation – transmitted to external and projectors. The hex nuts mate perfectly with the screws on standard VGA cables for a secure, reliable connection.

No. 41004



DISPLAYPORT TO VGA ACTIVE CONVERTER

This robust active converter makes it possible to connect DisplayPort sources to VGA equipment of any kind, thus ensuring the compatibility of state-of-the-art DisplayPort workstations or other devices with older VGA monitors. Plug & play installation makes the converter quick and easy to use: its hex nuts mate perfectly with the screws on standard VGA cables for a secure, reliable connection. This also makes the converter an ideal mobile accessory for BYOD practitioners, allowing them to flexibly adapt to available equipment. It can also be used to extend an existing desktop workplace.

No. 41006



DVI-D TO VGA CONVERTER

With this adapter, modern digital DVI-D source devices can be connected to older VGA displays: it converts DVI-D signals with resolutions up to 1200p into VGA format. It is powered by the source device, to which it is securely attached using two integrated screws. It is the ideal mobile solution for presenting user generated content in conference or training rooms. The converter is also ideal for adding a second display to a desktop computer.

No. 38189



VGA TO DVI-D CONVERTER

This converter has been specially developed for converting analogue signals to digital DVI-D. It supports resolutions up to 1920x1200, making it a one size fits all solution for connecting high definition DVI-D displays or projectors to VGA signal sources. It is powered via the USB port of the source device, a space saving approach that is ideal for professional mobile or stationary uses.

No. 38184

THE MOST COMPREHENSIVE PORTFOLIO: THE DONGLE RANGE

Choose from our comprehensive product portfolio for converting AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



CONNECTORS	HDMI 2.0 4K EDID EMULATOR	HDMI TO DISPLAYPORT 4K CONVERTER	HDMI TO VGA CONVERTER	HDMI TO VGA & AUDIO CONVERTER
Connector A	HDMI Type A Male	HDMI Type A Female	HDMI Type A Male	HDMI Type A Male
Connector B	HDMI Type A Female	DisplayPort Male	VGA Female	VGA Female, 3.5mm Stereo Audio Port
Housing Material	ABS	PVC	ABS	ABS
Connector Plating	Nickel	Nickel	Nickel	Nickel
Pin Construction	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze	Phosphor Bronze
Pin Plating	Nickel	Nickel	Nickel	Nickel
Dimensions (approx.) WxDxH	41x23x12mm [1.61x0.91x0.47in]	40x45x15mm [1.57x1.77x0.59in]	37x42x14.5mm [1.46x1.65x0.57in]	45x45x15mm [1.77x1.77x0.59in]
CABLE CONSTRUCTION				
Length	-	-	100mm [3.94in]	100mm [3.94in]
Standard	HDMI 2.0	HDMI 1.4 / DP 1.3	HDMI 1.3	HDMI 1.3
Type	-	Round	Round	Round
Jack Diameter	-	-	4.8mm [0.19in]	4.8mm [0.19in]
Jack Material	PVC	PVC	PVC	PVC
Conductor Material	-	Tinned Copper	Tinned Copper	Tinned Copper
Conductor Gauge	-	28AWG	30AWG	30AWG
Shielding	Copper Foil	Aluminium Alloy	Aluminium Braid + Mylar	Aluminium Braid + Mylar
SPECIFICATIONS				
Supported Bandwidth	18Gbps	10.2Gbps	4.95Gbps	4.95Gbps
Maximum Resolution	3840x2160@60Hz 4:4:4 8bit / 4:2:2 12bit	3840x2160@30Hz 4:4:4 8bit	1920x1200@60Hz 12bit	1920x1200@60Hz 12bit
Nominal Attenuation	300kHz-825MHz <5dB 825MHz-2.475GHz 5dB-12dB 2.475GHz-4.125GHz 12dB-20dB 4.125GHz-5.1GHz 20dB-25dB	300kHz-825MHz <5dB 825MHz-2.475GHz 5dB-12dB 2.475GHz-4.125GHz 12dB-20dB 4.125GHz-5.1GHz 20dB-25dB	300kHz-825MHz <5dB 825MHz-2.475GHz 5dB-12dB 2.475GHz-4.125GHz 12dB-20dB 4.125GHz-5.1GHz 20dB-25dB	300kHz-825MHz <5dB 825MHz-2.475GHz 5dB-12dB 2.475GHz-4.125GHz 12dB-20dB 4.125GHz-5.1GHz 20dB-25dB
Minimum Bend Radius	-	-	-	-
Operating Temperature	0°C - 60°C [32°F - 140°F]	-20°C - 85°C [-4°F - 185°F]	0°C - 70°C [32°F - 158°F]	0°C - 70°C [32°F - 158°F]
Storage Temperature	-10°C - 70°C [14°F - 158°F]	-20°C - 85°C [-4°F - 185°F]	-10°C - 80°C [14°F - 176°F]	-10°C - 80°C [14°F - 176°F]
	No. 32115	No. 38146	No. 38291	No. 38285



**DISPLAYPORT 1.2 TO HDMI 2.0
18G ACTIVE CONVERTER**

DisplayPort Male
HDMI Type A Female
Thermoplastic
Gold Flash
Phosphor Bronze
Gold Flash
45x45x15mm [1.77x1.77x0.59in]



**DISPLAYPORT TO DVI-D
CONVERTER**

DisplayPort Male
DVI-D Female (Single Link)
PVC
Gold Flash
Phosphor Bronze
Gold Flash
20x53.02x11mm [0.79x2.09x0.43in]



**DISPLAYPORT TO VGA ACTIVE
CONVERTER**

DisplayPort Male
VGA Female
Thermoplastic
Gold Flash
Phosphor bronze
Gold Flash
39x55x17mm [1.54x2.17x0.67in]



**DVI-D TO VGA
CONVERTER**

DVI-D Male (Single Link)
VGA Female
PVC
Nickel
Phosphor Bronze
Nickel
45x45x15mm [1.77x1.77x0.59in]



**VGA TO DVI-D
CONVERTER**

VGA Male
DVI-D Female (Single Link)
PVC
Nickel
Phosphor Bronze
Nickel
45x45x15mm [1.77x1.77x0.59in]

150mm [5.91in]
DVI 1.3 / HDMI 2.0a
Round
5mm [0.2in]
PVC
Copper
30AWG
Aluminium Magnesium Alloy, 65% Coverage

150mm [5.91in]
DP 1.2 / DVI 1.0
Round
6.5mm [0.26in]
PVC
Tinned Copper
28AWG
Aluminium Magnesium Alloy, 85% Coverage

150mm [5.91in]
DP 1.2
Round
6.5mm [0.26in]
PVC
Tinned Copper
28AWG
Aluminium Magnesium Alloy, 85% Coverage

100mm [3.94in]
DVI 1.3 (Single Link)
Round
5.5mm [0.22in]
PVC
Tinned Copper
30AWG
Aluminium

100mm [3.94in] USB - 200mm [7.87in]
DVI 1.0 (Single Link)
Round
5.5mm [0.22in]
PVC
Tinned Copper
30AWG, 28AWG (USB)
Aluminium

18Gbps
3840x2160@60Hz 4:4:4 8bit
300kHz-825MHz - <5dB 825MHz-2.475GHz - <5dB 2.475GHz-4.125GHz - <12dB 4.125GHz-5.1GHz - <20dB
55mm [2.17in]
0°C - 70°C [32°F - 158°F]
-20°C - 70°C [-4°F - 158°F]

10.8Gbps
1920x1200@60Hz 4:4:4 12bit
300kHz-825MHz - <5dB 825MHz-2.475GHz - <5dB 2.475GHz-4.125GHz - <12dB 4.125GHz-5.1GHz - <20dB
-
-20°C - 80°C [-4°F - 176°F]
-20°C - 70°C [-4°F - 158°F]

10.8Gbps
1920x1200@60Hz 4:4:4 12bit
300kHz-825MHz - <5dB 825MHz-2.475GHz - <5dB 2.475GHz-4.125GHz - <12dB 4.125GHz-5.1GHz - <20dB
70mm [2.76in]*
-20°C - 80°C [-4°F - 176°F]
-20°C - 70°C [-4°F - 158°F]

4.95Gbps
1920x1200@60Hz 12bit
300kHz-825MHz <5dB 825MHz-2.475GHz 5dB-12dB 2.475GHz-4.125GHz 12dB-20dB 4.125GHz-5.1GHz 20dB-25dB
55mm [2.17in]
-20°C - 80°C [-4°F - 176°F]
-20°C - 80°C [-4°F - 176°F]

4.95Gbps
1920x1200@60Hz 12bit
300kHz-825MHz <5dB 825MHz-2.475GHz 5dB-12dB 2.475GHz-4.125GHz 12dB-20dB 4.125GHz-5.1GHz 20dB-25dB
55mm [2.17in]
-20°C - 80°C [-4°F - 176°F]
-20°C - 80°C [-4°F - 176°F]

No. 41068

No. 41004

No. 41006

No. 38189

No. 38184

—
SOME THINGS
STILL SEEM
IMPOSSIBLE TODAY.
UNTIL THEY HAPPEN.
—

As media technologies become more diverse and complex, the importance of reliably converting seemingly incompatible signals is growing steadily.

Both new and legacy media often have multiple I/O ports and transmission protocols at both source and target devices. And the proliferation of digital AV interfaces is driving a greater need for adapters and converters for replacing individual components when needed and so that older but still completely functional hardware can continue to be used in newer AV environments.

The technical challenges this poses have less to do with actual conversion of digital AV protocols, and much more with the need for the components doing the converting to be able to deal with very high frequency signals.

Owing to the increasing use of UHD and 4K signals, huge data volumes need to be transmitted at lightning speed without any losses – and an AV signal transmission path is only as good as its weakest component.

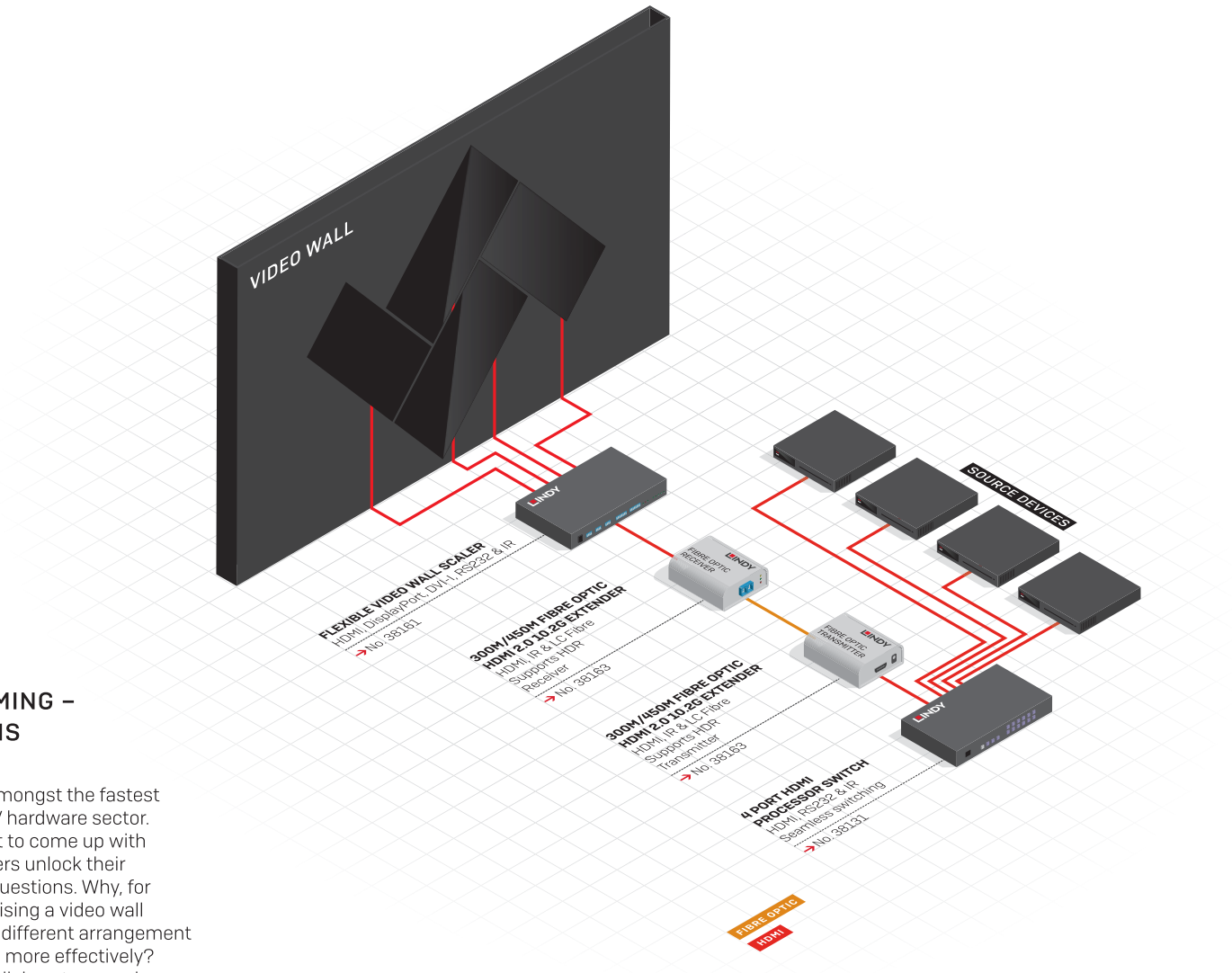
PERFECTION IN 4K

FLEXIBLE VIDEO WALL SCALER

This flexible video wall scaler sets new standards of creativity for video walls. Preconfigured screen arrays, cascading and user friendly on-screen displays enable countless configurations, from geometrical across unusual to highly unconventional and/or asymmetrical. Specially designed for use in retail, advertising, commercial and hospitality contexts, it supports a large number of predefined presets for arranging and orientating displays in different ways. In combination with other AV products – fibre optic extenders and HDMI switches, for example – this paves the way for highly complex application scenarios with multiple sources for delivering variable video content and transmitting signals across large distances for back office solutions.

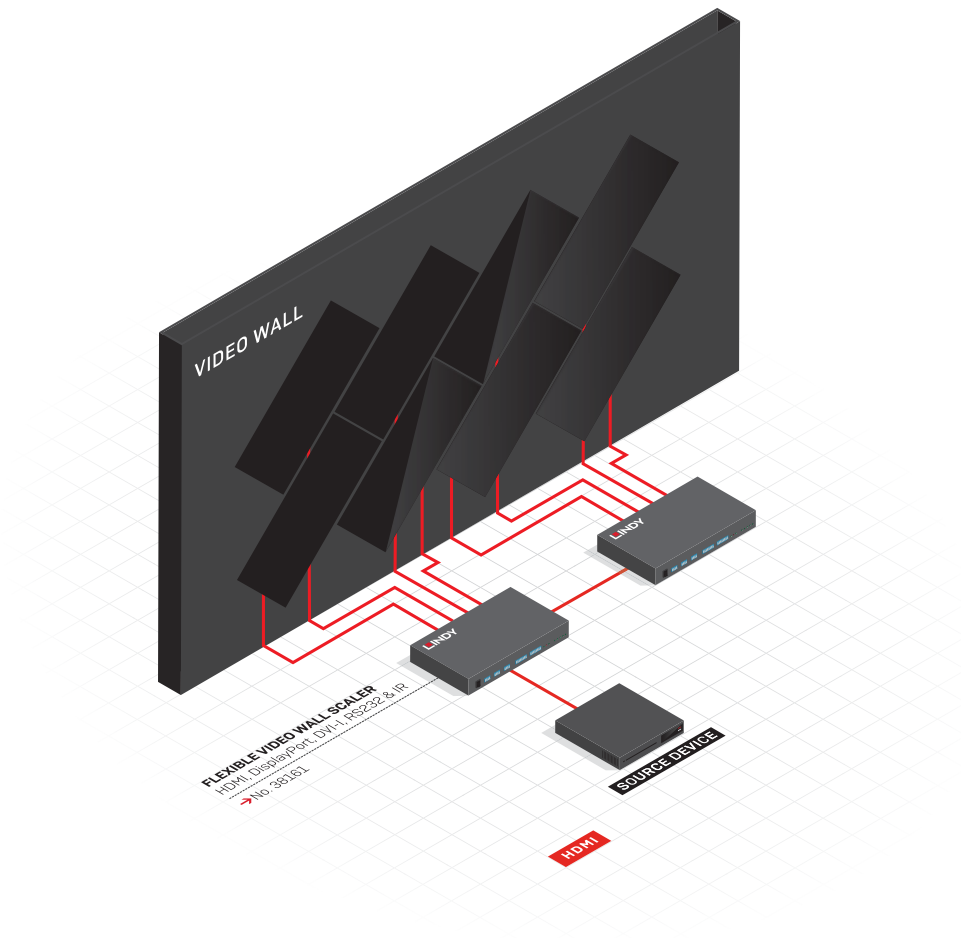
FLEXIBLE VIDEO WALL SCALER
No. 38161





PRESENTING AND INFORMING – PRODUCT PRESENTATIONS

Presentations on video walls rank amongst the fastest growing market categories in the AV hardware sector. This makes it all the more important to come up with innovative new products that let users unlock their creativity and get answers to their questions. Why, for example, should the screens comprising a video wall always be placed at right angles if a different arrangement would grab people's attention much more effectively? When placed in portrait format, parallel or staggered, diagonally or in any other desired angle to one another with the video content also rotated (or not), they turn into genuine eye-catchers for customers and audiences.



PRESENTING AND INFORMING – EVOKING EMOTIONS

Image enhancing large format video walls are an essential requirement in areas which are predestined for public use, like company foyers or hotel lobbies. Whether the aim is to impress visitors with visionary corporate themes or entertain guests with spectacular video sequences or thrilling landscapes, video walls spanning eight, twelve or even more

displays are a breeze to implement thanks to the cascading capabilities of this video wall scaler. It actually makes it possible to integrate up to an amazing 40 displays, making it thoroughly future proof for realizing even the boldest ideas. This eliminates all constraints on the possibilities for creatively arranging and positioning the displays.

**4K VIDEO WALL AND SCALER IN ONE ►
MULTI RESOLUTION**

Input resolutions up to 4K, which can be distributed to the HDMI output ports with resolutions up to Full HD, ensure fluid presentation of content. No matter whether the signals arrive via HDMI, DisplayPort or DVI, input resolutions smaller than 4K are scaled up to 4x Full HD.



**FULL CONTROL OF ALL CONTENT ▲
MULTI PICTURE**

Overlay technologies like PiP (Picture in Picture) or PoP (Picture on Picture) permit the simultaneous display of multiple images. Each of the scaler's three available inputs can be configured to serve as the source for additional content. Freely positionable PiP content can be as large as 1080p, and PoP images can be up to half the size of the overall video wall.



**▲ SEAMLESS TRANSITIONS
MULTI-FORM FACTOR**

The use of different display models is enabled by an integrated bezel correction feature that uses freely configurable algorithms to compensate for bezels (the plastic or metal borders around screens) of varying widths. This ensures that video content is always shown in correct alignment, even in highly unusual display configurations.



HDMI 2.0A 4K
AUDIO EXTRACTOR & EMBEDDER
No. 38168

2 WAY AUDIO HDMI AUDIO EXTRACTOR & EMBEDDER

This invaluable unit extracts audio data from a 4K HDMI stream or embeds an external audio signal in one. For extraction, an HDMI signal with integrated audio passes through to the output port for relay to a target display while the audio signal is routed to an AV receiver, speaker or soundbar in analogue stereo or digital TOSLINK format. Ideal for separating audio and video streams in video walls. Alternatively, the audio of an HDMI input signal can be replaced with an external audio signal and output with the AV stream: perfect for adding your own music to video content without editing, amongst many other uses.

**IN ►
EMBEDDER FUNCTION**

An analogue or digital audio signal fed via a 3.5mm stereo or TOSLINK connector is embedded in an HDMI stream to replace the original audio.



**▼ OUT
EXTRACTOR FUNCTION**

An audio signal can be extracted via a 3.5mm stereo jack in analogue stereo format or via TOSLINK as a digital multichannel stream (up to eight audio channels, 2.0, 5.1, 7.1) for sampling rates up to 192 kHz. This also works with the signal from the display's audio return channel (configurable).



**◀ THROUGH
AUDIO SIGNAL RETAINED**

This extractor's video chipset with 18 Gbps bandwidth supports HDMI 2.0a, i.e. resolutions up to 4K at 60Hz with 4:4:4 chroma sub-sampling, 10bit colour depth, 4:2:0 HDR and HDCP 2.2. Standalone source devices like Blu-ray players can therefore be used without problem. While being extracted, the audio signal (as well as the remote control signal) also remains in the HDMI stream and can be output at the display or muted as required.





4X4 HDMI MATRIX SWITCH
WITH VIDEO WALL SCALING
No. 38131

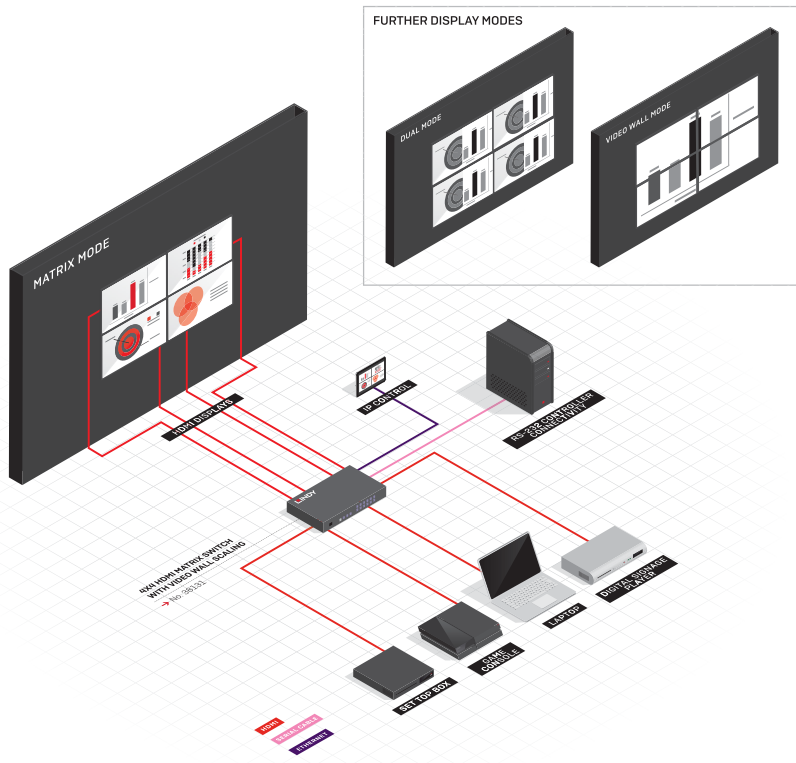
SEAMLESS

4x4 HDMI MATRIX AND VIDEO WALL

This product redefines matrix switches: four HDMI inputs can be freely selected and independently assigned to four HDMI output ports for routing to connected displays. All switching is absolutely seamless for smooth work and fluid presentations. Each of the four input signals can be simultaneously switched through to all four output ports and scaled up to a 2x2 video wall, shown separately alongside the other three signals, or even share a split display with one of them (in dual mode). This ability to rapidly switch back and forth between an overview of all content and large-format display of a selected AV signal removes all constraints and takes presentations to a new level.

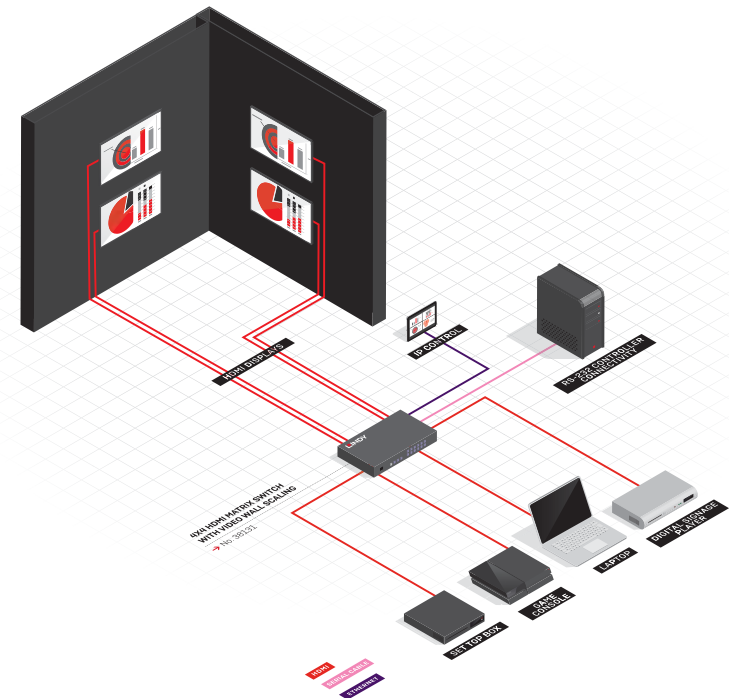
PRESENTING AND INFORMING – APPROPRIATE TO EVERY SITUATION

The HDMI video wall matrix switch is a powerful solution for monitoring and surveillance, retail and marketing presentations, or work situations where it's important to have fast, concurrent access to lots of information in real time (such as stock markets). It effortlessly handles whatever is needed, from speedy switching of Full HD content amongst individual displays all the way to scaling signals up to video wall format. To ensure brilliant colours and crisp details, it supports Full HD signals with a 4:4:4 colour space and a colour depth of up to 12bits per channel at all input and output ports.



PRESENTING AND INFORMING – A COMPLETE OVERVIEW

When there's a need to show four different video signals on two displays at different locations, the dual mode of this HDMI video wall matrix comes into play. As it has the ability to combine two signals on the same display in split-screen mode, digital signage scenarios – to name just one of many examples – can be quickly and easily implemented. Nor is it a problem to simultaneously present retail products on two main paths used by customers, pointed in just the right directions to catch their eyes.





**MATRIX SWITCH AND VIDEO WALL IN ONE ▲
ALL FUNCTIONS AT YOUR FINGERTIPS**

Four input and four output ports, all HDMI compatible, can be freely switched and configured on the front panel, with an IR remote or OSD menu, or via a network using included ready-to-install software. This adds up to a huge range of setting and configuration possibilities, including bezel correction to compensate for lateral misalignment of the display edges and predefined switching presets for instant remote access.

**▼ FORMAT AND CONTENT AT YOUR
COMMAND BY IR REMOTE CONTROL**

All switching functions plus the most important settings, freely definable presets and the OSD menu can be called up and operated using an IR remote with a rich function set. Ideal for making the most of large, complex presentations.



CONVERT EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR BOX RANGE



VGA & AUDIO TO HDMI CONVERTER

This compact device converts VGA signals from any source device for output to an HDMI target device, including stereo sound. It supports resolutions up to Full HD 1080p, which doesn't require any extended functionality such as signal scaling. This in turn ensures compatibility with environments that include both modern and legacy AV accessories. Thanks to plug & play installation, no software is required – and the converter is always ready to go.

No. 38165



HDMI TO HDMI & VGA CONVERTER

This versatile splitter simultaneously sends HDMI signals to HDMI and VGA target devices. It also converts audio signals from digital to analogue, which makes it ideal for integration in new or existing AV installations in meeting rooms or training facilities. Signals can be transmitted up to 10m from input to output. It is supplied with accessories for easy plug & play installation behind displays or even underneath tables.

No. 38149



3G SDI TO HDMI CONVERTER/EXTENDER

These powerful tools flex their muscles when an AV installation includes both SDI and HDMI devices. In addition to converting signals between SDI and HDMI, they are able to embed and extract audio signals to support the use of external sound equipment. Multiple units can also be combined to extend signals over a distance of up to 100m. They have been specially developed for use in professional AV, broadcasting and security applications to integrate HDMI and SDI equipment and avoid costly SDI displays.

No. 38198 – 3G SDI to HDMI Converter/Extender

No. 38199 – HDMI to 3G SDI Converter/Extender



4 PORT HDMI VIDEO WALL SCALER

This scaler distributes and scales Full HD signals from an HDMI compliant source device to up to four displays with a resolution of 1080p. This makes it possible to very simply implement 2x2, 4x1 or 1x4 video walls for a vast range of uses. To configure video walls up to 15x15, multiple scalers can be daisy-chained using a dedicated port. Adjustable bezel correction is included for precisely compensating for each screen's frame width to ensure seamless reproduction of the scaled content across the wall. What's more, contrast, brightness, saturation and hue can be precisely defined for each screen. Ideal for a wide spectrum of AV applications including events in multi-use indoor arenas, shopping centres, conference rooms and control rooms.

No. 38134



4 PORT HDMI 4K VIDEO WALL SCALER

This video wall scaler routes 4K UHD signals from an HDMI source to an array of four freely configurable screens. More displays can be added to create even larger video walls by daisy-chaining multiple scalers. Independently of the screens used, the frame width (bezel correction), contrast, brightness, saturation and hue of each output can be individually adjusted for precise reproduction of the content across all of the displays. The scaler can be controlled via a serial connection or IP. Flexibly usable in conference or presentation rooms as well as other professional AV environments.

No. 38135

THE MOST COMPREHENSIVE PORTFOLIO: THE BOX RANGE

Choose from our comprehensive product portfolio for converting AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	VGA & AUDIO TO HDMI CONVERTER	HDMI TO HDMI & VGA CONVERTER	3G SDI TO HDMI CONVERTER/EXTENDER	HDMI TO 3G SDI CONVERTER/EXTENDER
AV Interface	VGA to HDMI	HDMI to HDMI & VGA	3G SDI to HDMI	HDMI to 3G SDI
Interface Standard	HDMI 1.2a	HDMI 1.3	HDMI 1.3	HDMI 1.3
Supported Bandwidth	6.75Gbps	10.2Gbps	6.75Gbps	6.75Gbps
Maximum Input Resolution	1920x1080@60Hz	1920x1080@60Hz 4:4:4 8Bit	1920x1080@60Hz	1920x1080@60Hz
Maximum Output Resolution	1920x1080@60Hz	1920x1080@60Hz 4:4:4 8Bit (HDMI) / 60Hz RGB (VGA)	1920x1080@60Hz	1920x1080@60Hz
HDCP Support	1.1	1.4 (HDMI only)	-	-
Supported Audio	Audio Pass-Through	Digital Audio Pass-Through, PCM Audio Analogue Conversion	PCM, Analogue L/R	PCM, Analogue L/R
Separate Audio Ports	HDMI, RCA (Input)	3.5mm Stereo	HDMI, 3.5mm Stereo	HDMI, 3.5mm Stereo
Special Features	-	-	-	-
CONNECTORS				
Input	1 x VGA (Female), 2 x RCA (female)	1 x HDMI (Female)	1 x BNC (Female)	1 x HDMI (Female), 1 x 3.5mm Stereo Audio (Female)
Output	1 x HDMI (Female)	1 x HDMI (Female), 1 x VGA (Female), 1 x 3.5mm Stereo Audio (Female)	1 x HDMI (Female), 1 x 3.5mm Stereo Audio (Female)	1 x BNC (Female)
Power	5.5/2.1mm DC socket	5.5/2.5mm DC socket	5.5/2.5mm DC socket	5.5/2.5mm DC socket
PHYSICAL PROPERTIES				
Dimensions [approx.] WxDxH	87x66x25mm (3.43x2.6x0.98in)	94x72x25mm (3.7x2.83x0.98in)	80x30x120mm (3.15x1.18x4.72in)	80x30x120mm (3.15x1.18x4.72in)
Housing Material	Metal	Metal	Metal	Metal
Net Weight	0.246kg (0.54lb)	0.225kg (0.5lb)	0.035kg (0.08lb)	0.036kg (0.08lb)
Operating Temperature	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)	-20°C - 60°C (-4°F - 140°F)
Humidity	10 - 85% RH (non-condensing)	0 - 60% RH (non-condensing)	20 - 90% RH (non-condensing)	20 - 90% RH (non-condensing)
Power Requirements	5VDC 1A	5VDC 1A	5VDC 2.6A	5VDC 2.6A
	No. 38165	No. 38149	No. 38198	No. 38199



**HDMI 2.0A 4K
AUDIO EXTRACTOR & EMBEDDER**

HDMI
HDMI 2.0a
18Gbps
4096x2160@60Hz 4:4:4 8Bit
4096x2160@60Hz 4:4:4 8Bit
2.2
Audio Pass-Through
HDMI, TOSLINK, 3.5mm Stereo Audio
CEC Pass-Through

1 x HDMI (Female), 1 x 3.5mm Stereo Audio (Female), 1 x TOSLINK (Female)
1 x HDMI (Female), 1 x 3.5mm Stereo Audio (Female), 1 x TOSLINK (Female)
5.5/2.1mm DC socket

127x67x27mm (5x2.64x1.06in)
Metal
0.363kg (0.8lb)
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
20 - 90% RH (non-condensing)
5VDC 1.2A

No. 38168

**4 PORT HDMI
VIDEO WALL SCALER**

HDMI
HDMI 1.3a
6.75Gbps
1920x1200@60Hz
1920x1200@60Hz
1.4
Audio Pass-Through
HDMI
Supports RS232 and RJ45 Control

1 x HDMI (Female)
4 x HDMI (Female)
5.5/2.1mm DC socket

436x247x44mm (17.17x9.72x1.73in)
Metal
3.138kg (6.92lb)
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
20 - 90% RH (non-condensing)
12VDC 3A

No. 38134

**4 PORT HDMI 4K
VIDEO WALL SCALER**

HDMI
HDMI 1.4
9Gbps
4096x2160@24Hz
1920x1200@30Hz
1.4
Audio Pass-Through
HDMI
Supports RS232 and RJ45 Control

1 x HDMI (Female)
4 x HDMI (Female)
5.5/2.5mm DC socket

438x269x44mm (17.24x10.59x1.73in)
Metal
3.224kg (7.11lb)
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
20 - 90% RH (non-condensing)
12VDC 3A

No. 38135

**FLEXIBLE
VIDEO WALL SCALER**

HDMI, DVI-I & DP to HDMI
HDMI 1.4
10.2Gbps
3840x2160@30Hz
3840x2160@30Hz
1.4
Audio Pass-Through
HDMI
Supports irregular and block cascade video walls

1 x HDMI (Female), 1 x DP (Female), 1 x DVI-I Single Link (Female), 3.5mm IR (Female), RS232 (Female)
4 x HDMI (Female) + 1 x HDMI (Female) Cascade port
5.5/2.5mm DC socket

346x171x45mm (13.62x6.73x1.77in)
Metal
1.873kg (4.13lb)
0°C - 40°C (32°F - 104°F)
-20°C - 70°C (-4°F - 158°F)
20 - 90% RH (non-condensing)
12VDC 3.3A

No. 38161

**4X4 HDMI MATRIX SWITCH
WITH VIDEO WALL SCALING**

HDMI
HDMI 1.3
6.75Gbps
1920x1080@60Hz 4:4:4 12Bit
1920x1080@60Hz 4:4:4 12Bit
1.1
Audio Pass-through
-
Video Wall Scaling Up/Down Scaling

4 x HDMI (Female), USB Type Mini-B (Female)
4 x HDMI (Female)
5.5/2.1mm DC socket

436x247x44mm (17.17x9.72x1.73in)
Metal
2.95kg (6.5lb)
0°C - 40°C (32°F - 104°F)
-20°C - 60°C (-4°F - 140°F)
20 - 90% (non-condensing)
12VDC 3A

No. 38131

RESOURCE EFFICIENT DP1.2 TO 4X HDMI FULL HD

This high performance unit, which converts and scales video signals from 4K DisplayPort to 4x HDMI, includes an integrated video wall processor for two or four displays that supports a wide variety of output modes, including display duplication and extended desktop, plus expander and AMD Eyefinity functionality. It therefore serves as a converter, scaler and video wall controller all rolled into one. Thanks to use of DisplayPort's Multi-Stream Transport (MST) technology, it only needs a single DisplayPort feed from the video card, which makes it an ideal visualization solution. Its many uses include public presentations, advertising and large desktop environments (such as those used by stock brokers) as well as surveillance and monitoring.

DISPLAYPORT 1.2 TO 4 X HDMI CONVERTER
WITH VIDEO WALL PROCESSOR
No. 38418



**FULL USE OF RESOURCES ►
CONVERTER, SCALER AND 4K VIDEO WALL**

Converts DisplayPort signals to 4x HDMI while taking advantage of the Multi-Stream Transport (MST) mode of DisplayPort 1.2 to use all four lanes of a DisplayPort connection for multiple parallel video streams.



**▲ QUADRUPLED
2X2 VIDEOWALL**

In extended desktop mode, two pairs of Full HD displays with an expanded mode resolution of 3840x1080p can be combined into a 2x2 video wall with 4K resolution. Here too, the converter takes advantage of the video card's AMD Eyefinity compatibility.

CONVERT EVERYTHING – IT'S EASY! DISCOVER MORE FROM OUR MST HUB RANGE



DISPLAYPORT/DISPLAYPORT 2 PORT MST & SST HUB

This MST & SST hub allows a single DisplayPort equipped source device such as a PC to feed video signals to two compatible displays, either as a single large workspace spanning both displays or two separate workspaces. Integrated Single Stream Transport (SST) technology also lets the hub act like a conventional splitter and send the same content to each display. The hub includes female input and output interfaces for more flexible installation using cables of different lengths. Thanks to a robust metal housing with integrated mounting brackets and screw type DC connectors, it's ideal for commercial and industrial applications where reliability is paramount.

No. 38425



DISPLAYPORT MST HUBS

This DisplayPort MST hub has been specially developed for tapping the benefits of the multi-stream transport (MST) function of the DisplayPort interface. It makes it possible to take a DisplayPort source signal from a PC or laptop and route it to two or three DisplayPort capable target devices (displays, projectors etc.). Current computers excel in terms of mobility and flexibility, but this has unfortunately also led to a decrease in the number of video and other output ports. This MST hub makes sure that multiple monitors can be easily connected to them without the need to install an additional video card. It supports uncompressed resolutions up to 1080p on two or three independent monitors, making it the ideal solution for boosting the productivity of multitasking applications with high resolution images in professional environments.

No. 38426 – 2 Port 4K Mini DisplayPort MST Hub
 No. 38427 – 2 Port 4K DisplayPort MST Hub
 No. 38428 – 3 Port 4K Mini DisplayPort MST Hub
 No. 38429 – 3 Port 4K DisplayPort MST Hub

—
IT'S EASY
TO IMAGINE
THE NEXT STEP.
BUT YOU NEED
TO EXPERIENCE
A NEW WAY.
—

DisplayPort 1.2 with Multi-Stream Transport: send multiple independent video signals over a single DisplayPort output. Multi-Stream Transport (MST) makes it possible to send signals to between two and four displays, thanks to quick and easy plug & play signal distribution via several channels. Use of the MST protocol permits transmission of up to four different AV signals from a single DisplayPort 1.2 output on the source device. Different content with crisp, vibrant image quality can then be assigned to each of four MST capable displays without any scaling or resolution losses whatsoever. Alternatively, it's possible to clone the same signal on multiple displays. MST hubs with DisplayPort outputs are dual mode compatible (DisplayPort++). As a result, HDMI, VGA or Single Link DVI signals can be directly output and used via a passive or active adapter to ensure the compatibility of different terminal devices and dependable signal distribution.

THE MOST COMPREHENSIVE PORTFOLIO: THE MST HUB RANGE

Choose from our comprehensive product portfolio for converting AV signals in diverse ways – find a tailored solution for each of your needs at a glance. This gives you the information required to respond easily, flexibly and economically to requirements as they change from day to day – now and in the future.



SPECIFICATIONS	2 PORT 4K DISPLAYPORT MST/SST HUB	2 PORT 4K MINI DISPLAYPORT MST HUB	2 PORT 4K DISPLAYPORT MST HUB
AV Interface	DisplayPort to DisplayPort	Mini DisplayPort to DisplayPort	DisplayPort to DisplayPort
Interface Standard	DP 1.2	DP 1.2	DP 1.2
Supported Bandwidth	21.6Gbps	21.6Gbps	21.6Gbps
Maximum Input Resolution	3840x2160@60Hz 4:4:4 8bit	3840x2160@60Hz 4:4:4 8bit	3840x2160@60Hz 4:4:4 8bit
Maximum Output Resolution	3840x2160@30Hz	3840x2160@30Hz	3840x2160@30Hz
HDCP Support	1,3	1,4	1,4
Supported Audio	Audio Pass-Through	Audio Pass-Through	Audio Pass-Through
Separate Audio Ports	-	-	-
Special Features	-	-	-
CONNECTORS			
Input	1 x DisplayPort (Male)	1 x Mini DisplayPort (Male)	1 x DisplayPort (Male)
Output	2 x DisplayPort (Female)	2 x DisplayPort (Female)	2 x DisplayPort (Female)
Power	-	-	-
PHYSICAL PROPERTIES			
Dimensions [approx.] WxDxH	156x83x25mm [6.14x3.27x0.98in]	58x62x14mm [2.28x2.44x0.55in]	58x62x14mm [2.28x2.44x0.55in]
Housing Material	Metal	Plastic	Plastic
Net Weight	0.308kg (0.68lb)	0.53kg (1.17lb)	0.63kg (1.39lb)
Operating Temperature	0°C - 45°C (32°F - 113°F)	0°C - 45°C (32°F - 113°F)	0°C - 45°C (32°F - 113°F)
Storage Temperature	-20°C - 70°C (-4°F - 158°F)	-20°C - 70°C (-4°F - 158°F)	-20°C - 70°C (-4°F - 158°F)
Humidity	40 - 50% RH (non-condensing)	40 - 50% RH (non-condensing)	40 - 50% RH (non-condensing)
Power Requirements	12VDC 1A	USB Power	USB Power
	No. 38425	No. 38426	No. 38427



**3 PORT 4K MINI DISPLAYPORT
MST HUB**

Mini-DisplayPort to DisplayPort
DP 1.2
21.6Gbps
3840x2160@60Hz 4:4:4 8bit
3840x2160@30Hz
1.4
Audio Pass-Through
-
-

1 x Mini DisplayPort (Male)
3 x DisplayPort (Female)
5.5/2.1mm DC socket

78.2x60.5x18.5mm (3.08x2.38x0.73in)
Plastic
0.227kg (0.5lb)
0°C - 45°C (32°F - 113°F)
-20°C - 70°C (-4°F - 158°F)
40 - 50% RH (non-condensing)
5VDC 3A

No. 38428



**3 PORT 4K DISPLAYPORT
MST HUB**

DisplayPort to DisplayPort
DP 1.2
21.6Gbps
3840x2160@60Hz 4:4:4 8bit
3840x2160@30Hz
1.4
Audio Pass-Through
-
-

1 x DisplayPort (Male)
3 x DisplayPort (Female)
5.5/2.1mm DC socket

78.2x60.5x18.5mm (3.08x2.38x0.73in)
Plastic
0.238kg (0.52lb)
0°C - 45°C (32°F - 113°F)
-20°C - 70°C (-4°F - 158°F)
40 - 50% RH (non-condensing)
5VDC 3A

No. 38429



**DISPLAYPORT 1.2 TO 4 X HDMI CONVERTER
WITH VIDEO WALL PROCESSOR**

DisplayPort to HDMI
DP 1.2 / HDMI 1.4b
21.6Gbps
3840x2160@60Hz 4:4:4 8bit
3840x2160@30Hz
1.4
Audio Pass-Through
-
-
- Supports both MST and SST modes
- Output ports are grouped in computers OS: 1+2=Display 1, 3+4=Display 2
- Supports extended and duplicated desktop mode
- Requires an Intel / AMD graphics card that supports 4 displays via an MST enable DisplayPort output

1 x DisplayPort (Female)
4 x HDMI Type A (Female)
5.5/2.5mm DC socket

155x72x25mm (6.1x2.83x0.98in)
Metal
0.41kg (0.9lb)
0°C - 45°C (32°F - 113°F)
0°C - 70°C (32°F - 158°F)
40 - 50% RH (non-condensing)
5VDC 2A

No. 38418

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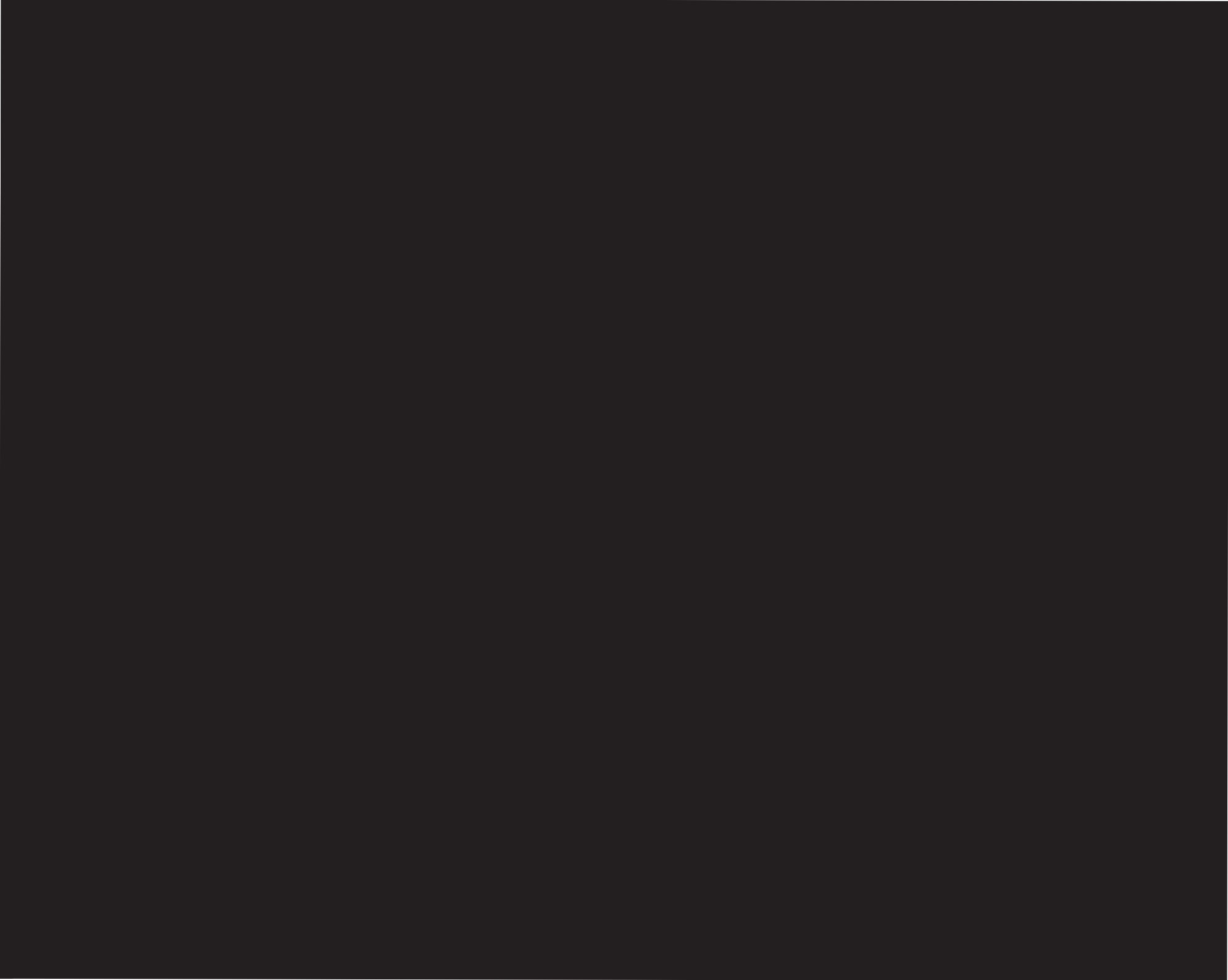
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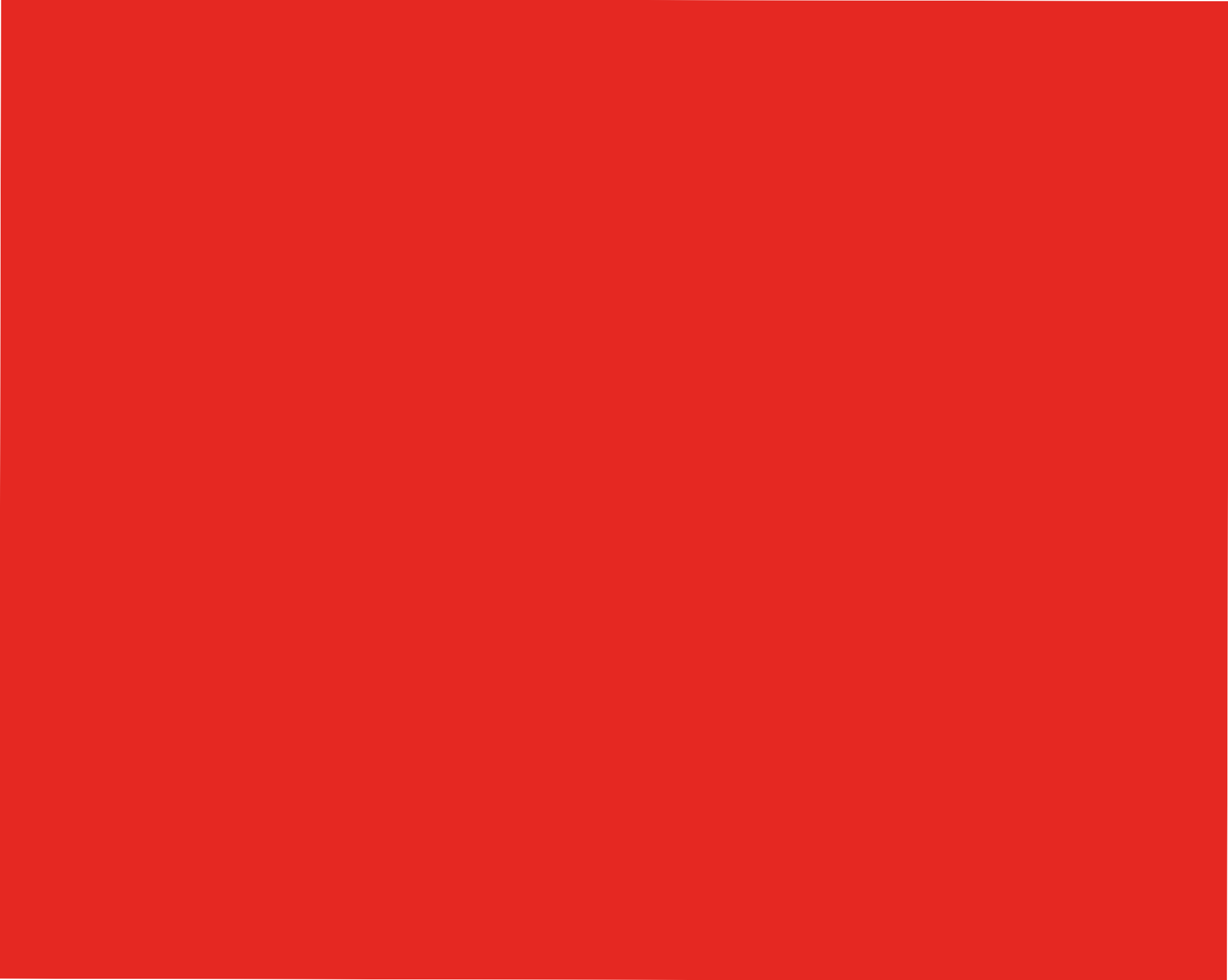
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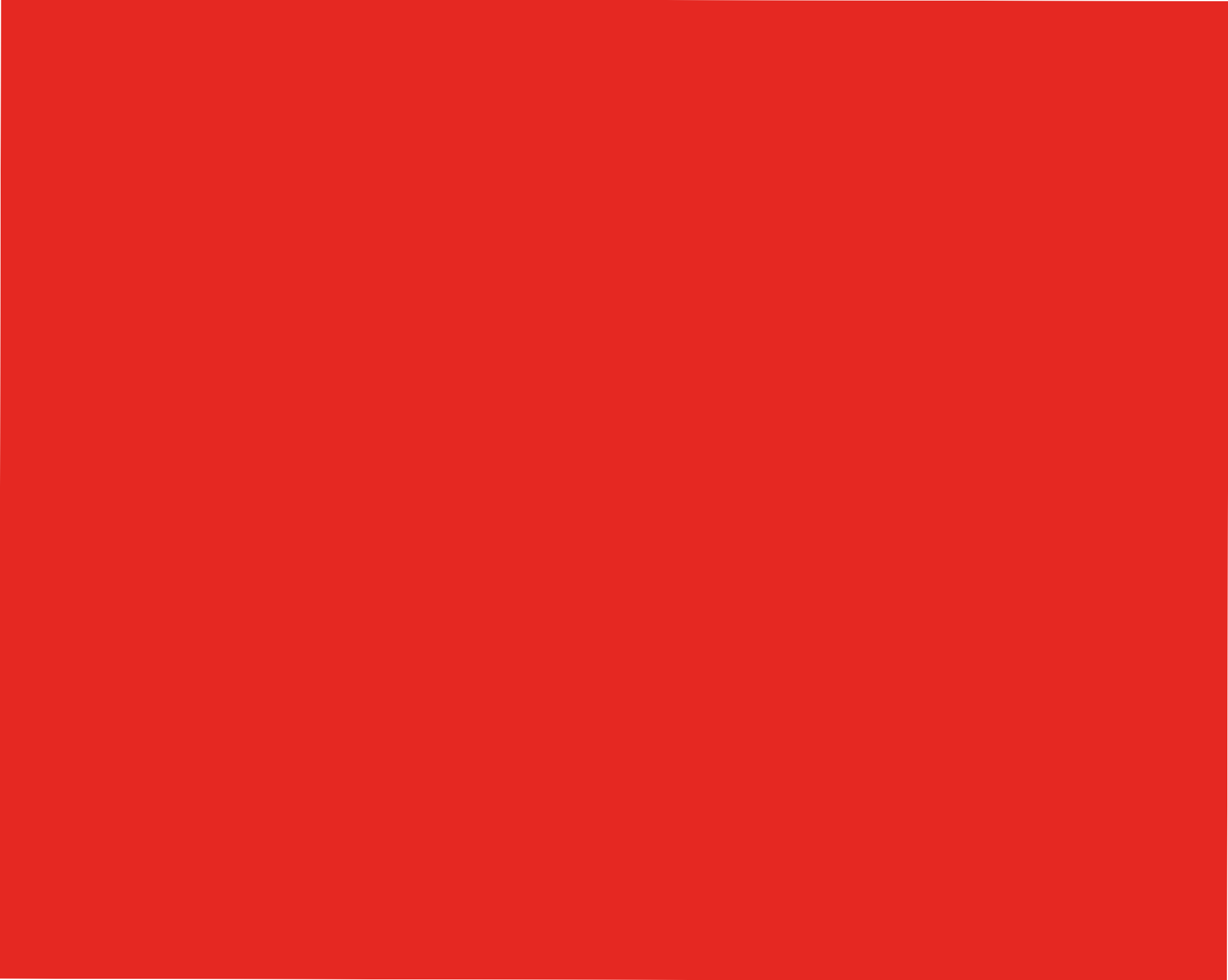
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of a perfect business relationship!







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