



FTDI CHIP

Industrial specification

Isolation 3000VDC

USB to serial converters from Single chip USB to RS422/485

USB 1.0/1.1 compliant, USB 2.0 Full Speed compatible

12 Mbps USB data rate

Transmit and receive LED drive .

Built-in terminator 120 ohm for DIP switch setting

32 Device Connectivity for RS485 Max.

Serial Interface 1 Port

15 KV ESD protection for all serial ports and RS422/485 signals Surge Protection

Connector: Terminal Block 5P and MINI USB B type

Cable:USB Type A and MINI USB B Type

.Driver Support

Windows 98, 98SE, ME

Windows 2000

Windows XP and XP 64-bit

Windows Vista and Vista 64-bit

Windows Server 2003 and 2003 64-bit

Windows Server 2008 and 2008 64-bit

Windows 7 and 7 64-bit

Mac OS8/9,OS-X

Linux 2.4 and greater

Applications

- .RS-422/485 communication
- .Utility meters
- .Industrial process control
- .Building automation
- .Industrial-controlled Local Area Network
- .Industrial PCs and PC peripherals devices

Serial Converter

Mode	Asynchronous serial communication
Speed	Up to 115.2kbps
Connector	Terminal Block 5P 5.08mm
Signals	TX+,TX-,RX+,RX- ,SGND
Protection	15KV ESD Protection for all signals RS422/485 signals Surge Protection
Data Bits	7,8
Stop Bits	1,2
Flow Control	RTS/CTS,XON/XOFF
Parity	None,Even,Odd,Space,Mark
IRQ	Assigned by BIOS
FIFO	TX Buffer 128 bytes, RX Buffer 256 bytes
Switch	RS422 Term.Resistor setting
	RS485 Term.Resistor setting
	RS485 Echo/non-Echo selection
	RS422/485 selection

Software

Driver Support	Windows 98, 98SE, ME, 2000, Server 2003, XP ,Server 2008, XP 64-bit Windows Vista, Vista 64-bit,Server 2008 R2,Windows 7,Windows 7 X64 Mac OS 8/9, OS-X Linux 2.4 and greater
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Hardware

Power Input	MINI USB B type connector
Power Consumption	54mA max
LED	TXD,RXD
Isolation	Optical 3000 VDC max
Dimensions	42.5(W)x22.5(H)94.5(D)mm
Weight	56g

Terminal Block PIN Define

	RS422	RS422Multi-Drop/RS485 4W	RS485
1	TX+	TX+	
2	TX-	TX+	
3	RX+	RX+	DATA+
4	RX-	RX-	DATA-
5	SG	SG	SG

DIP SW

DIP SW SET	1	2	3	4	
0=OFF,1=ON	0	0	0	x	RS422
	0	0	1	x	RS422
	1	0	1	x	RS485 4W,RS422 Multi Drop
	0	1	0	x	RS485 2W NO ECHO
	0	1	1	x	RS485 2W ECHO
	x	x	x	1	RS422/485 Term.Resistor ON

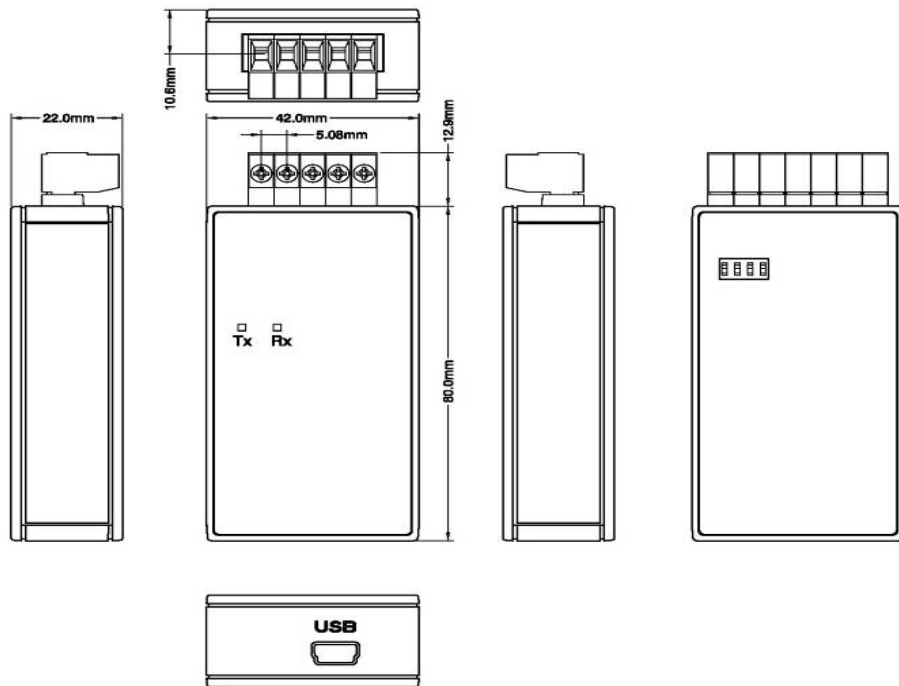
Environmental

Operating Temp	-30~75℃
Storage Temp	-40~85℃
Humidity	5~95% Non-Condensing
Case	PC

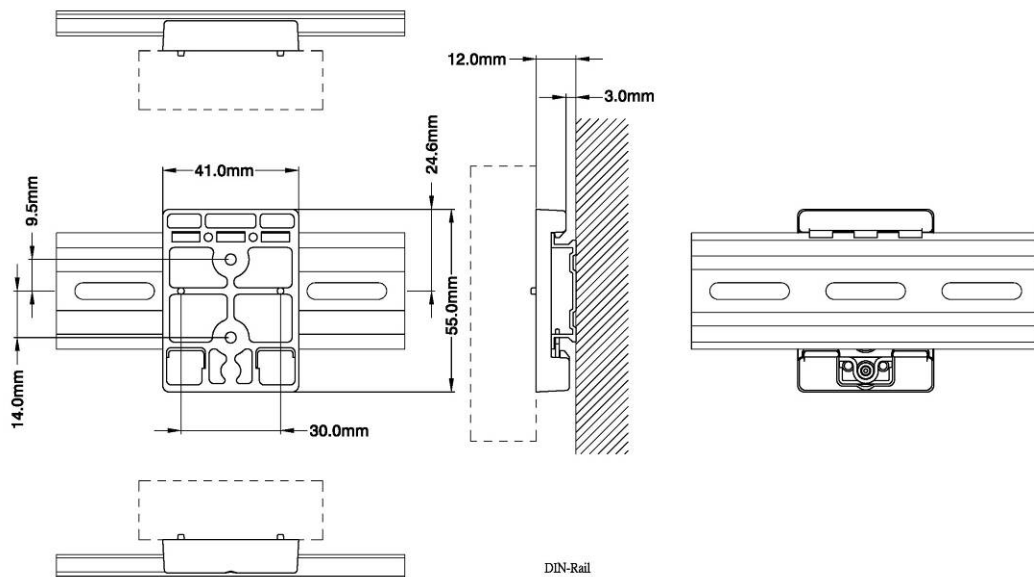
Approvals

CE ,FCC RoHs Compliant

Dimension



DIN rail Dimension



Ordering Information

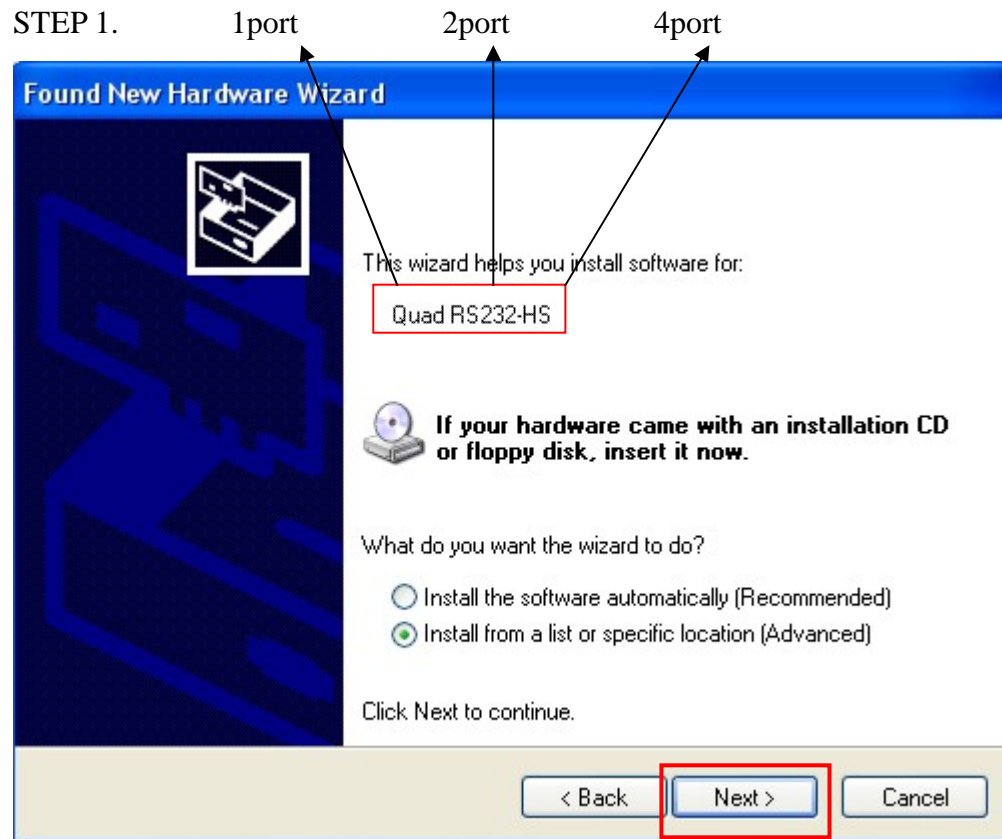
Available Models

UD-101i : USB to RS422/485 converter with optical isolation

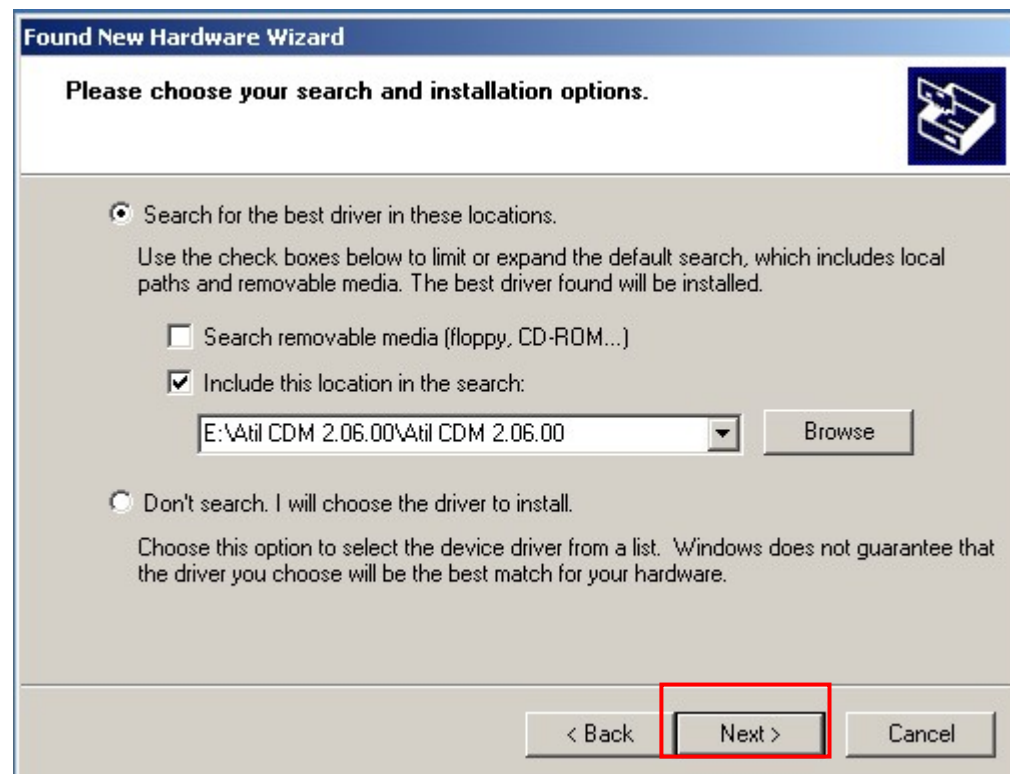
UD-101i-D: USB to RS422/485 converter with optical isolation and DIN rail

Driver installation guide for windows XP

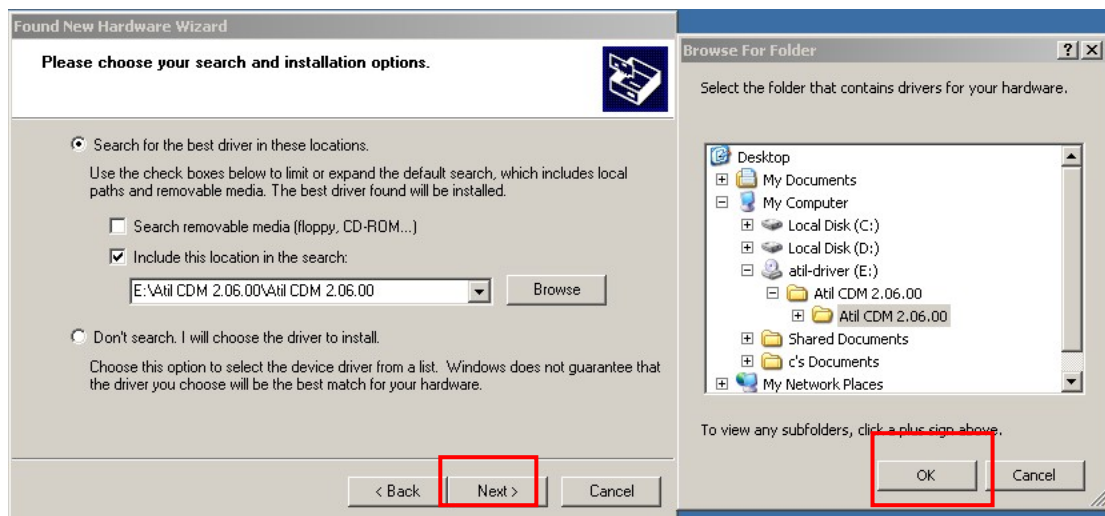
STEP 1.



STEP 2.



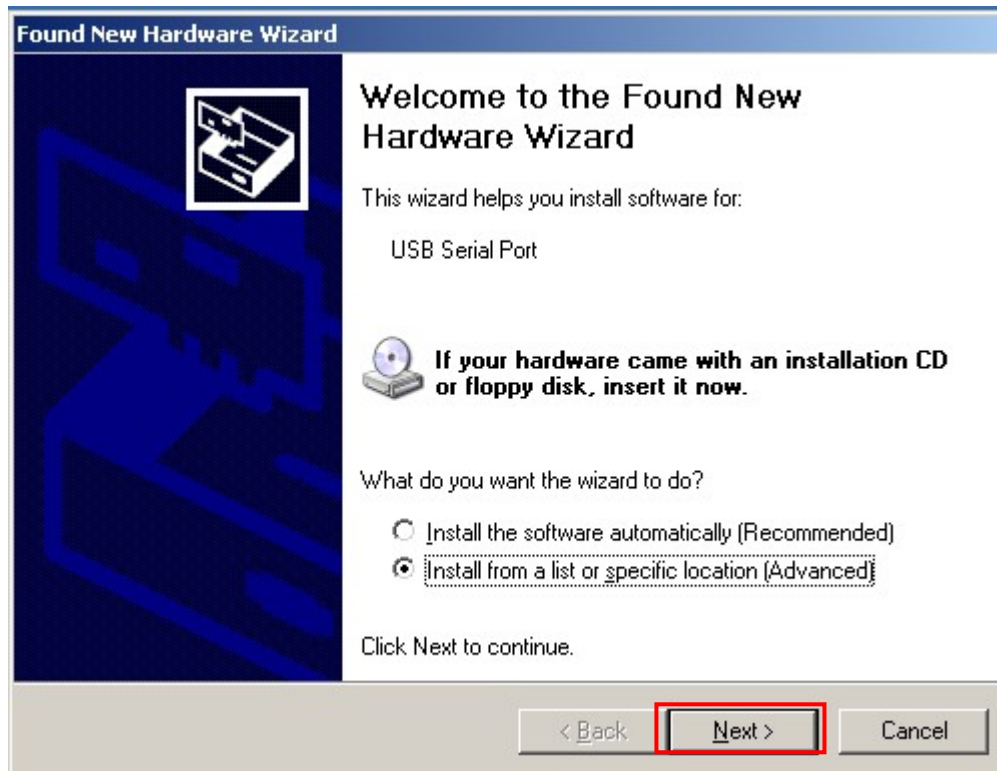
STEP 3.



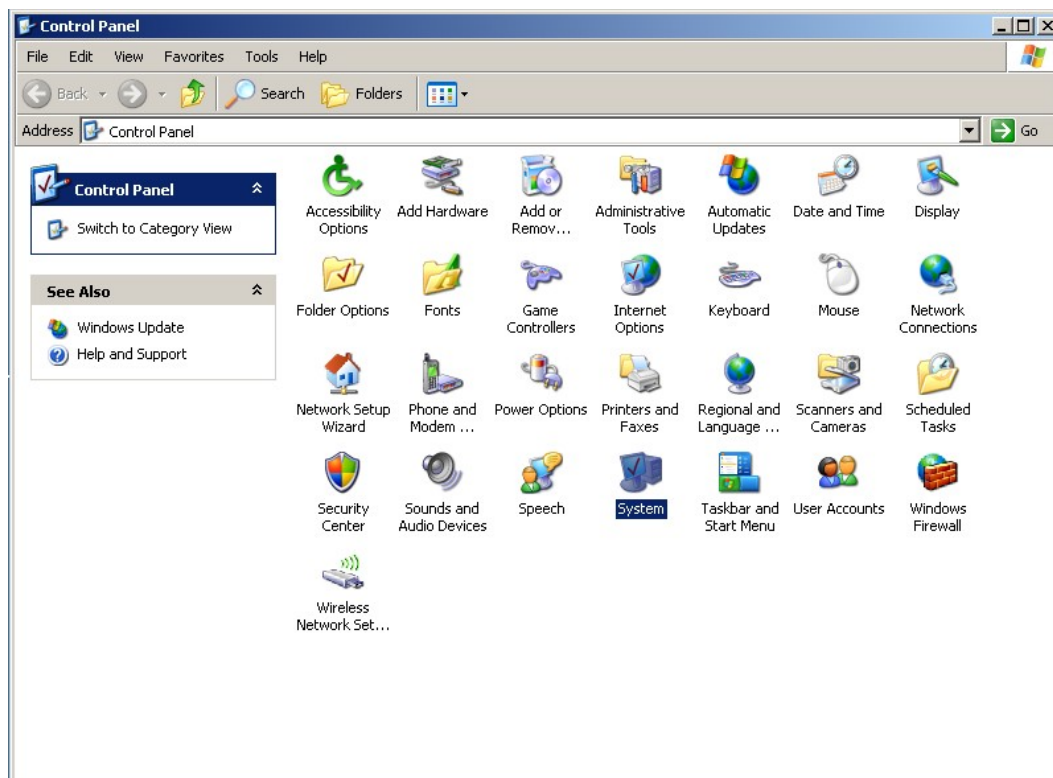
SETP 4.



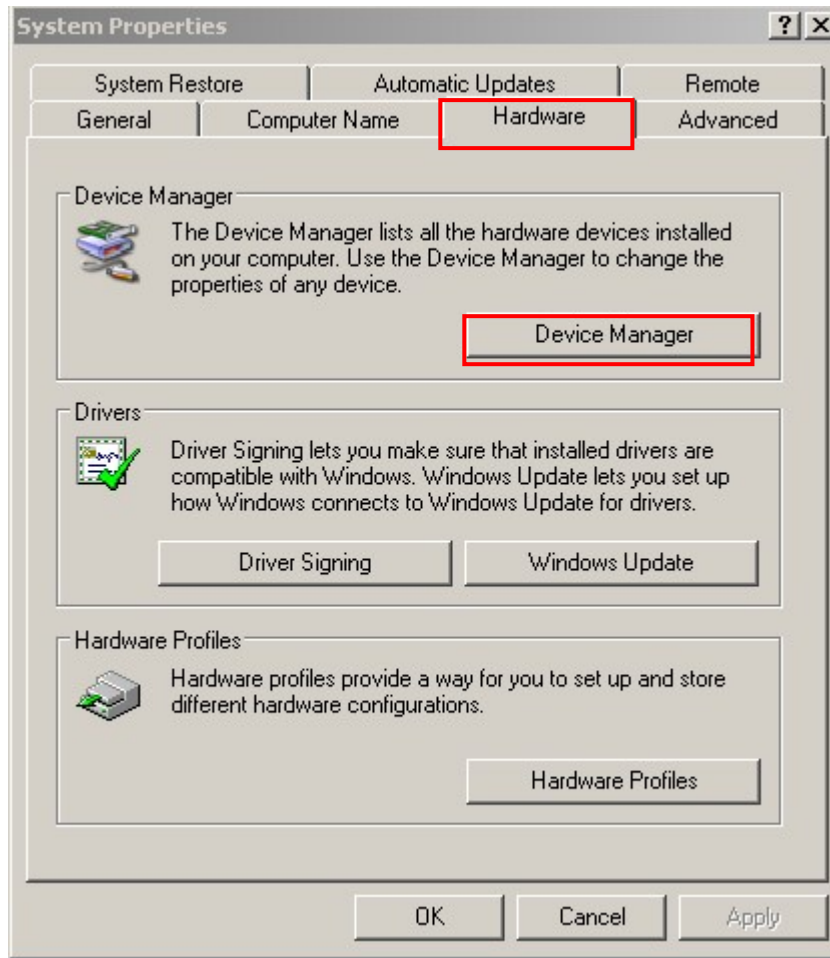
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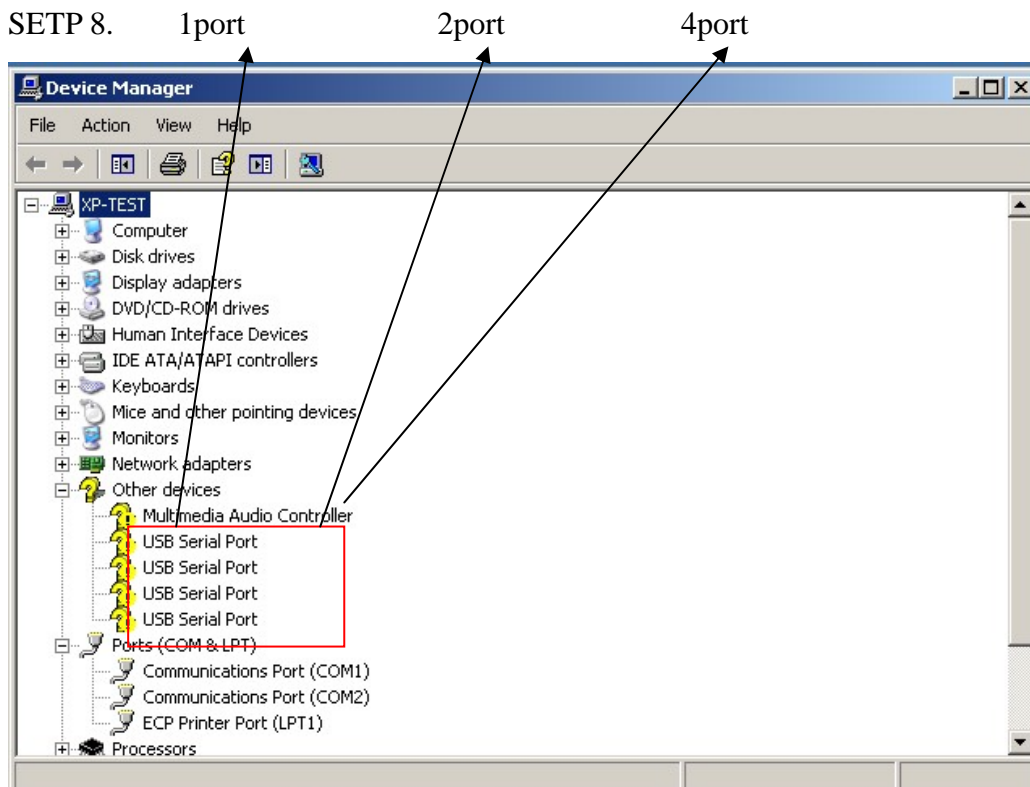
STEP 6.



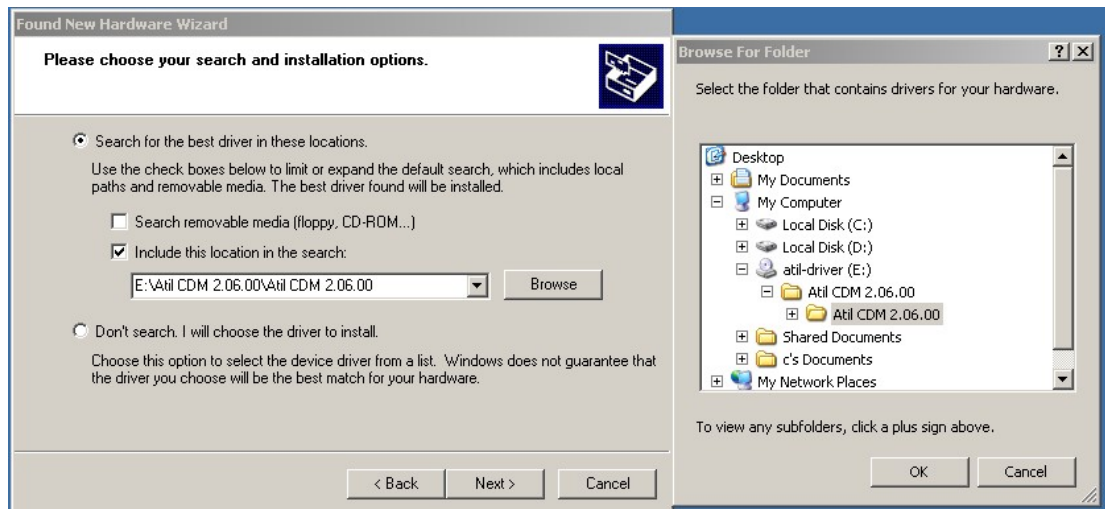
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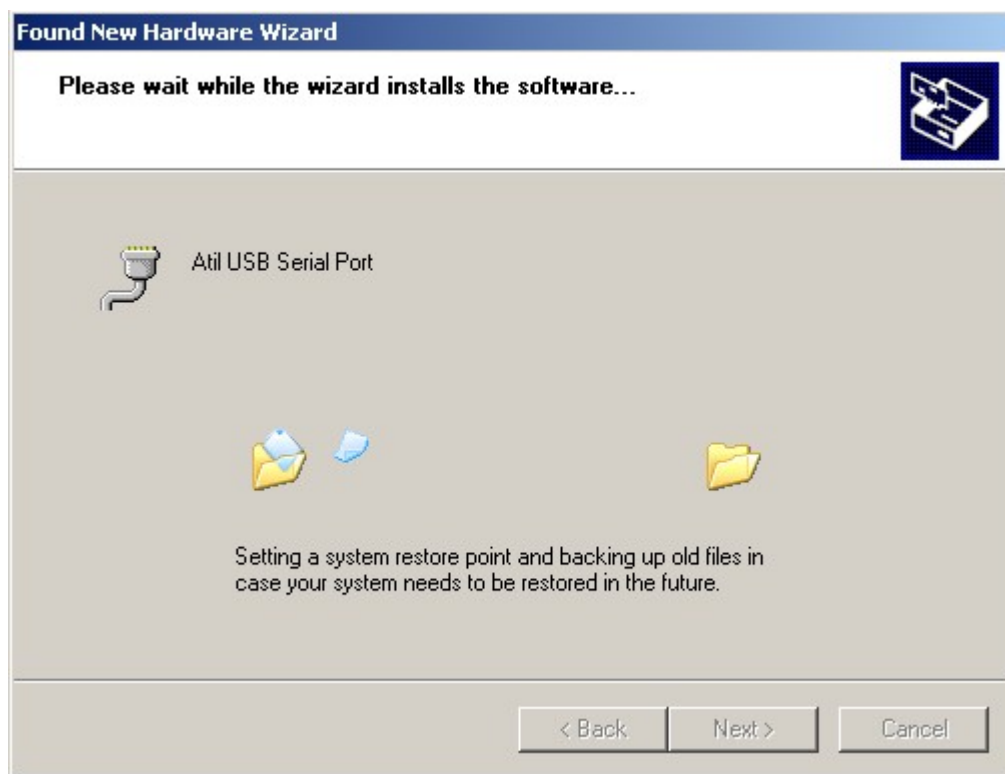
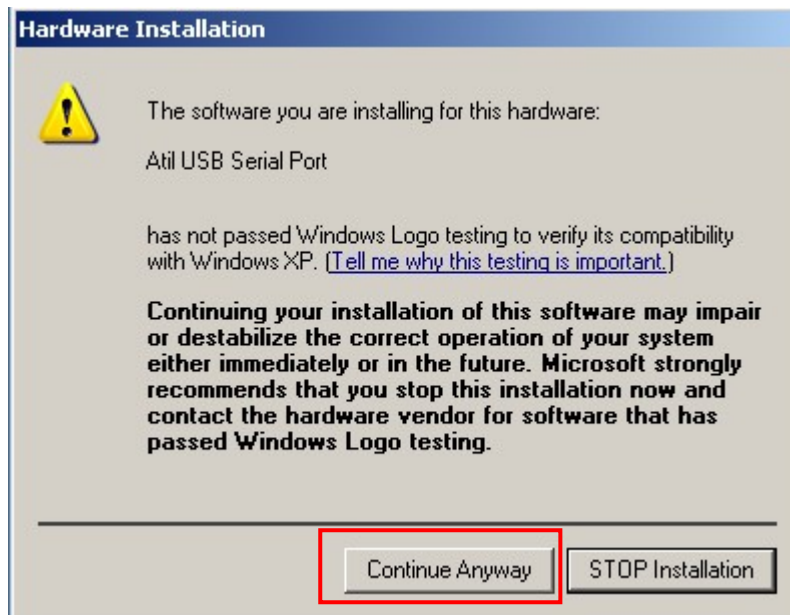
SETP 8.



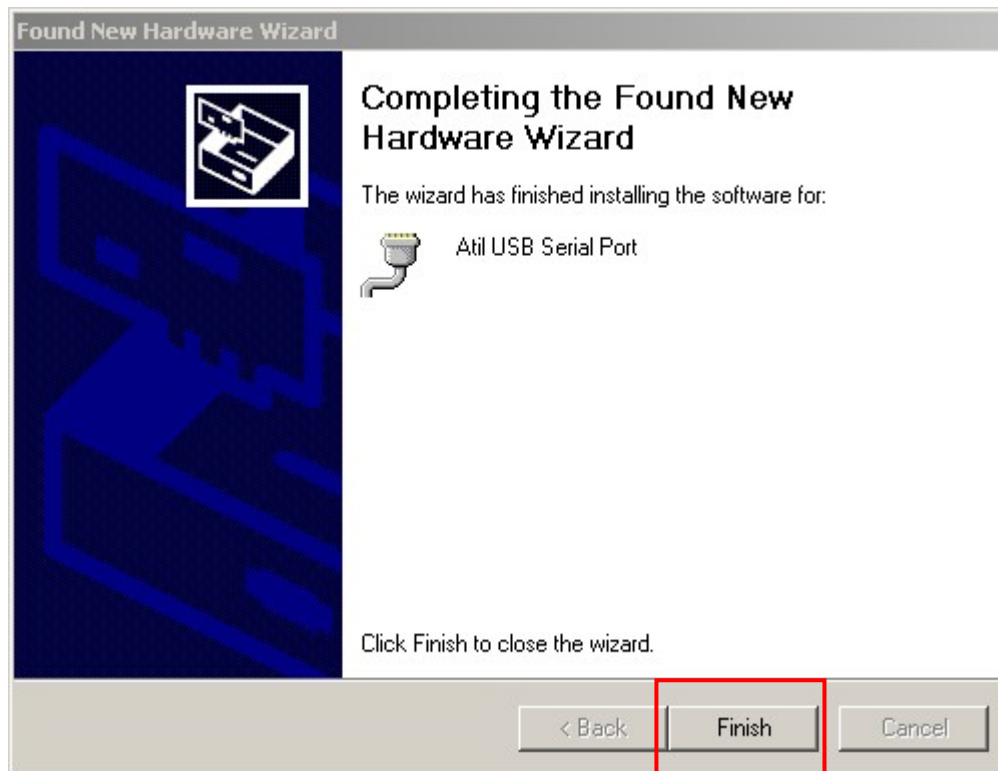
STEP 9.



STEP 10..



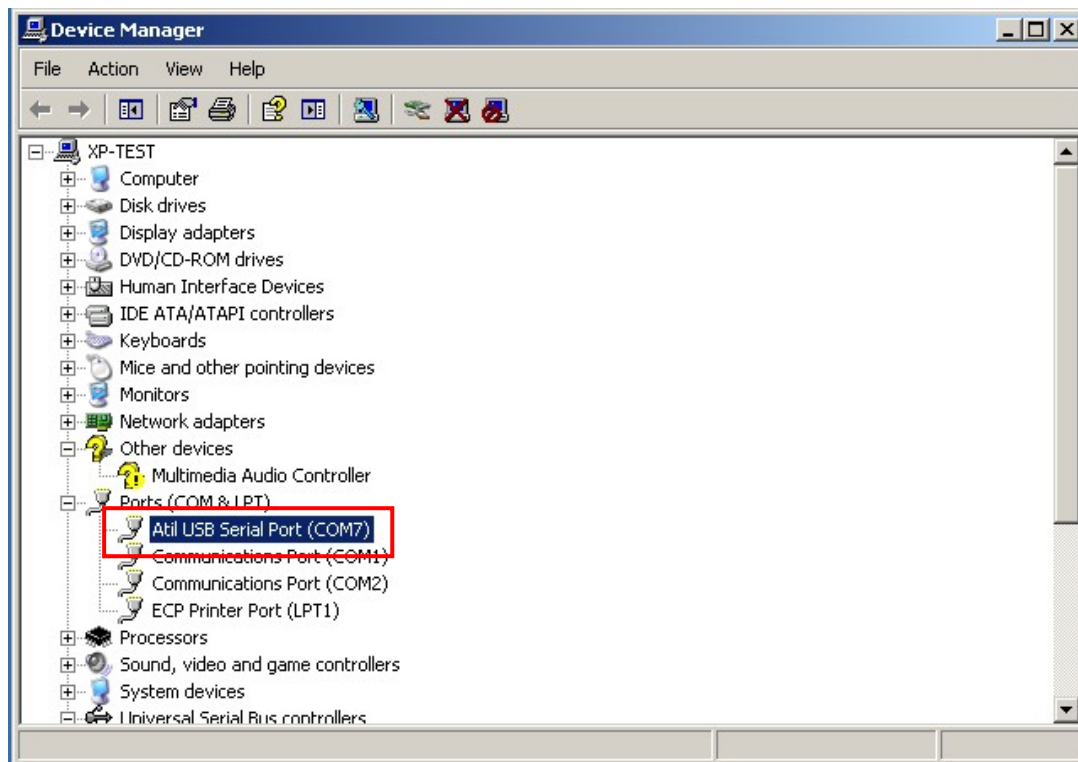
SETP 11.



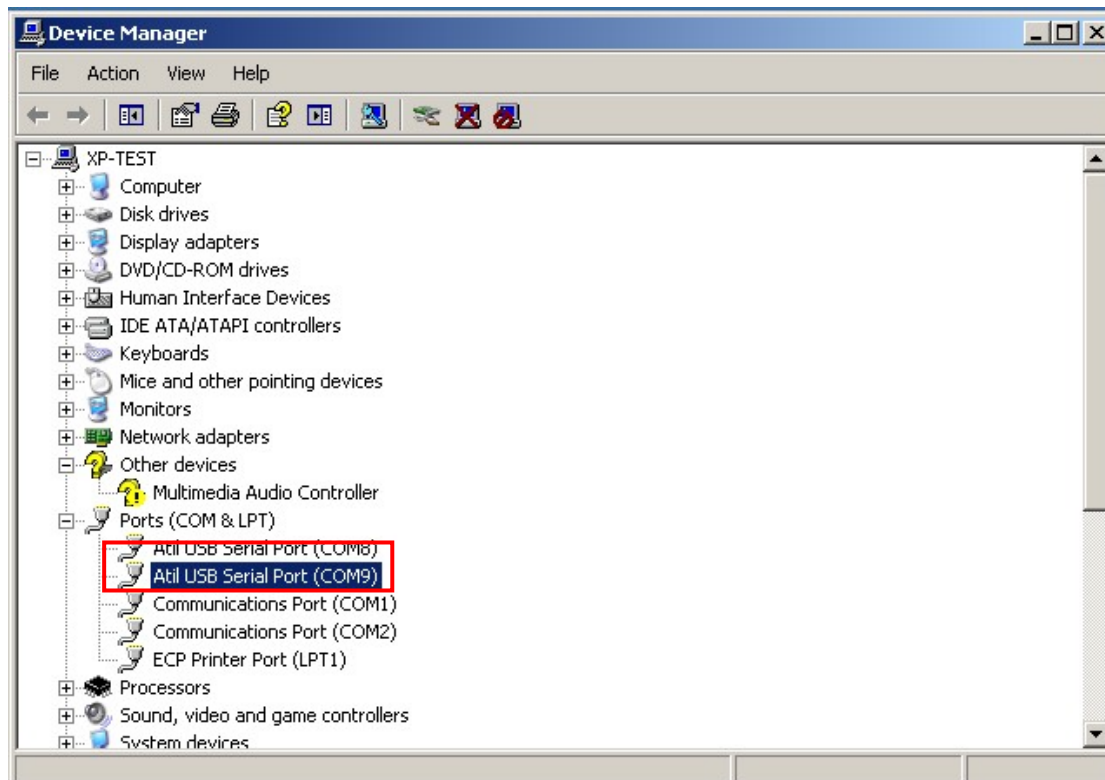
2port Loop STEP 9~11 two next

4port Loop STEP 9~11 four next

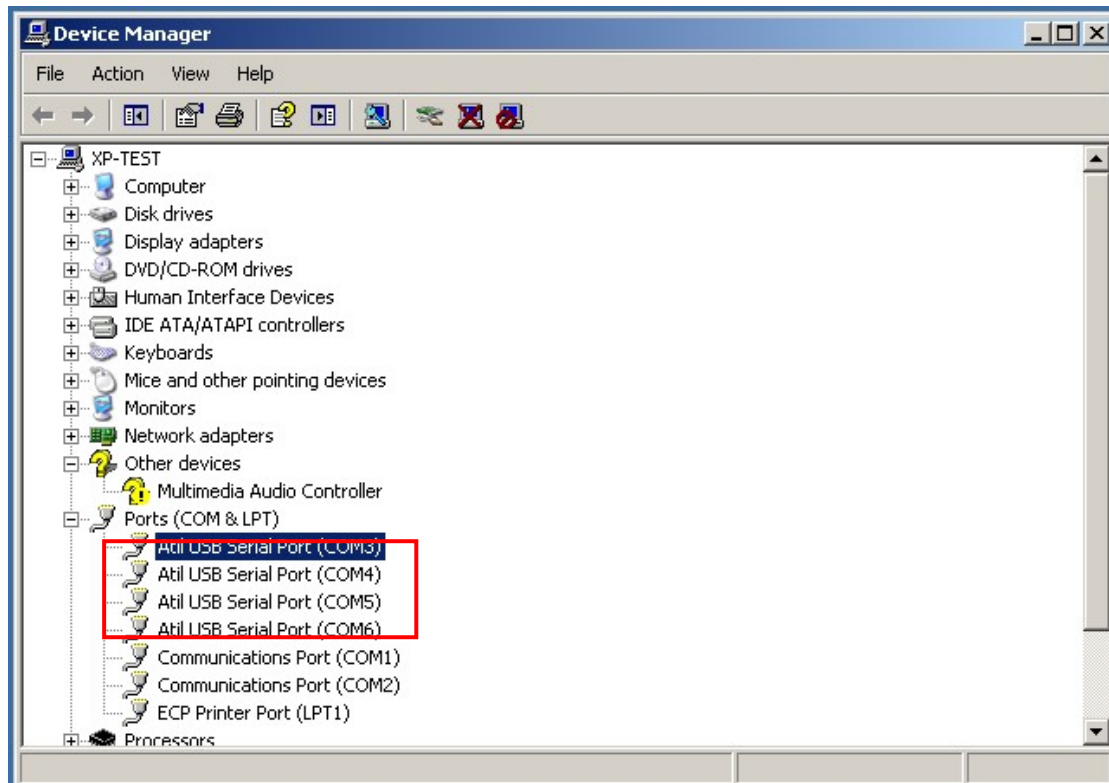
USB to 1port RS232/422/485



USB to 2port RS232

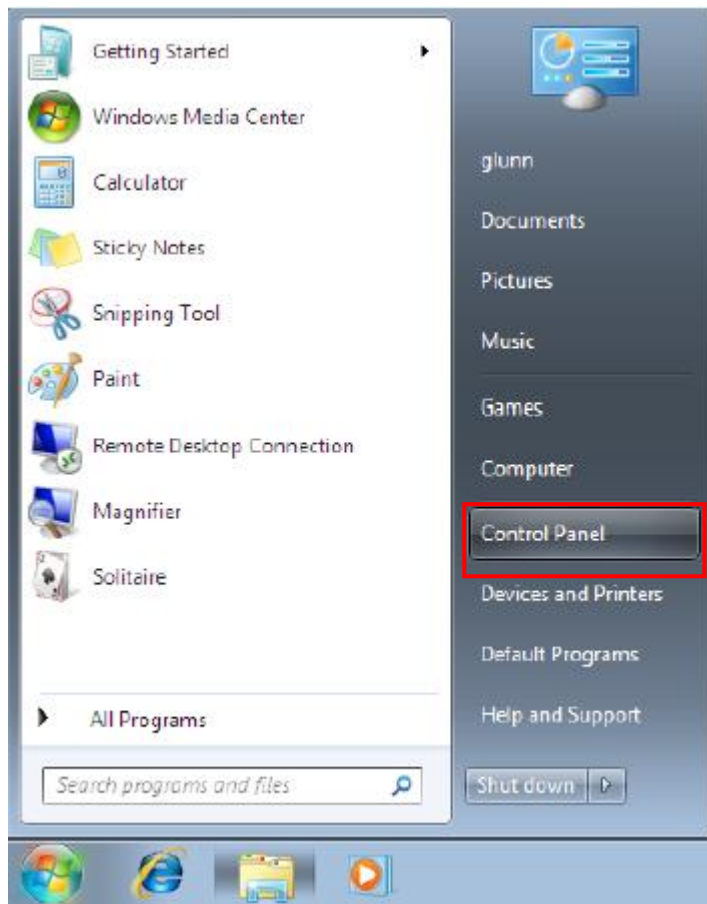


USB to 4port RS232

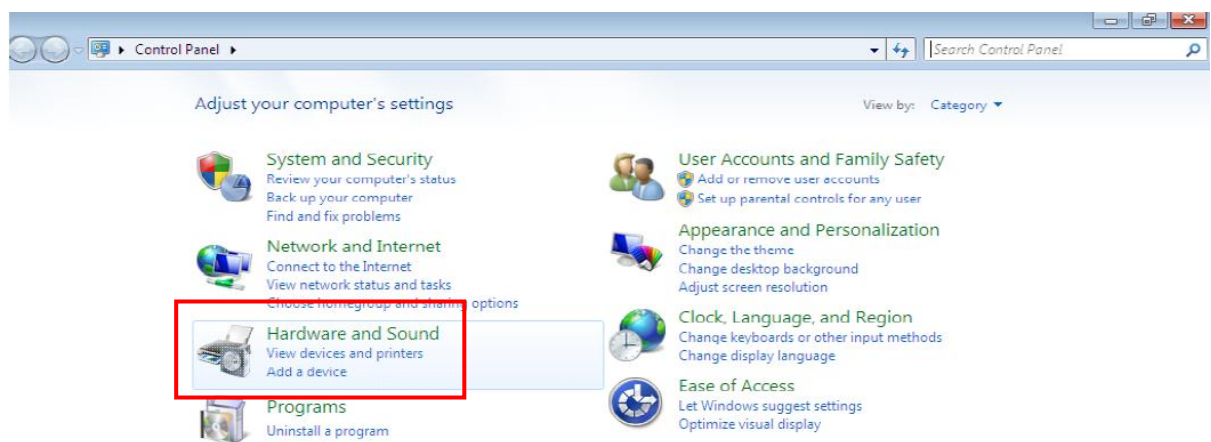


Driver installation guide for windows 7

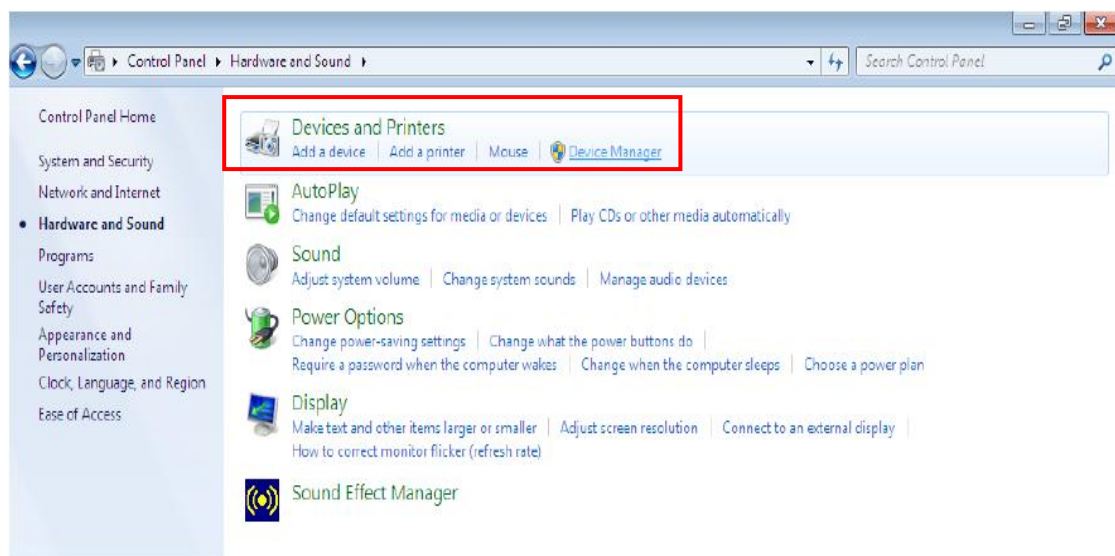
Step 1



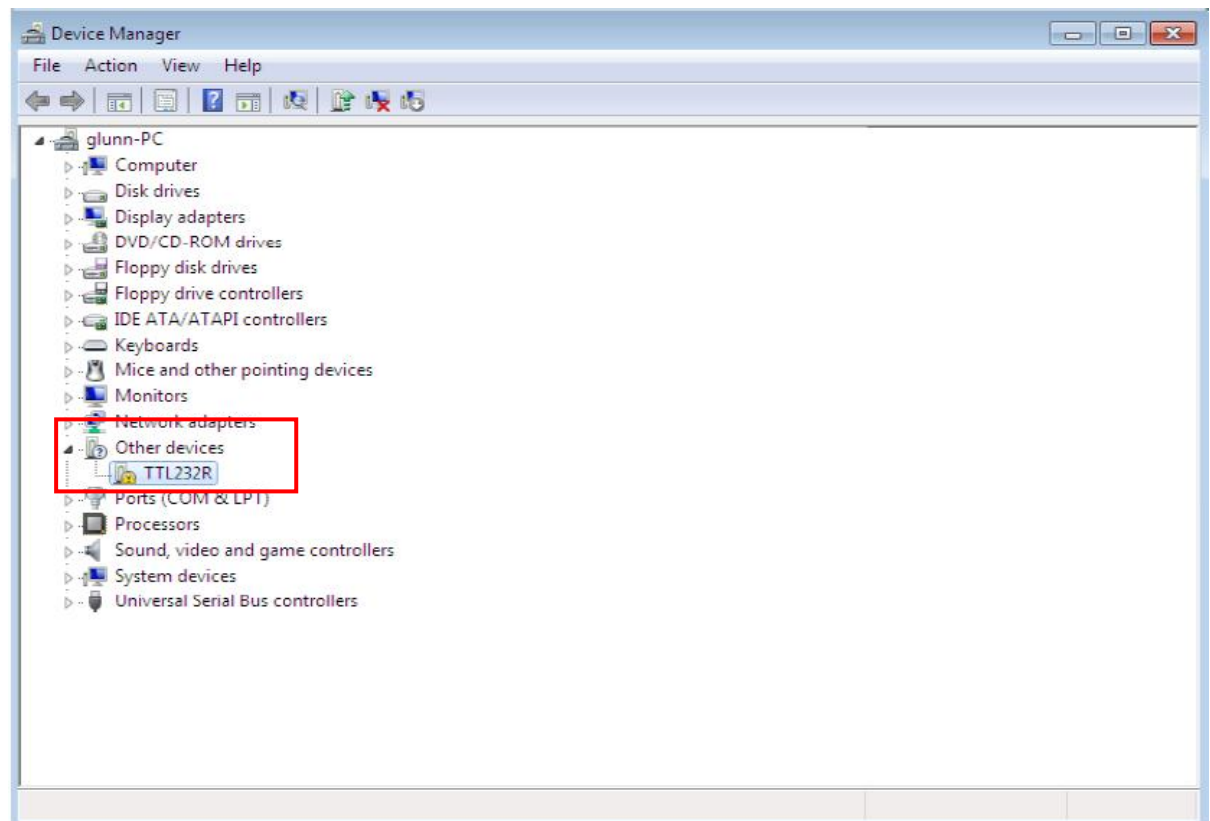
Step2 Hardware and Sound



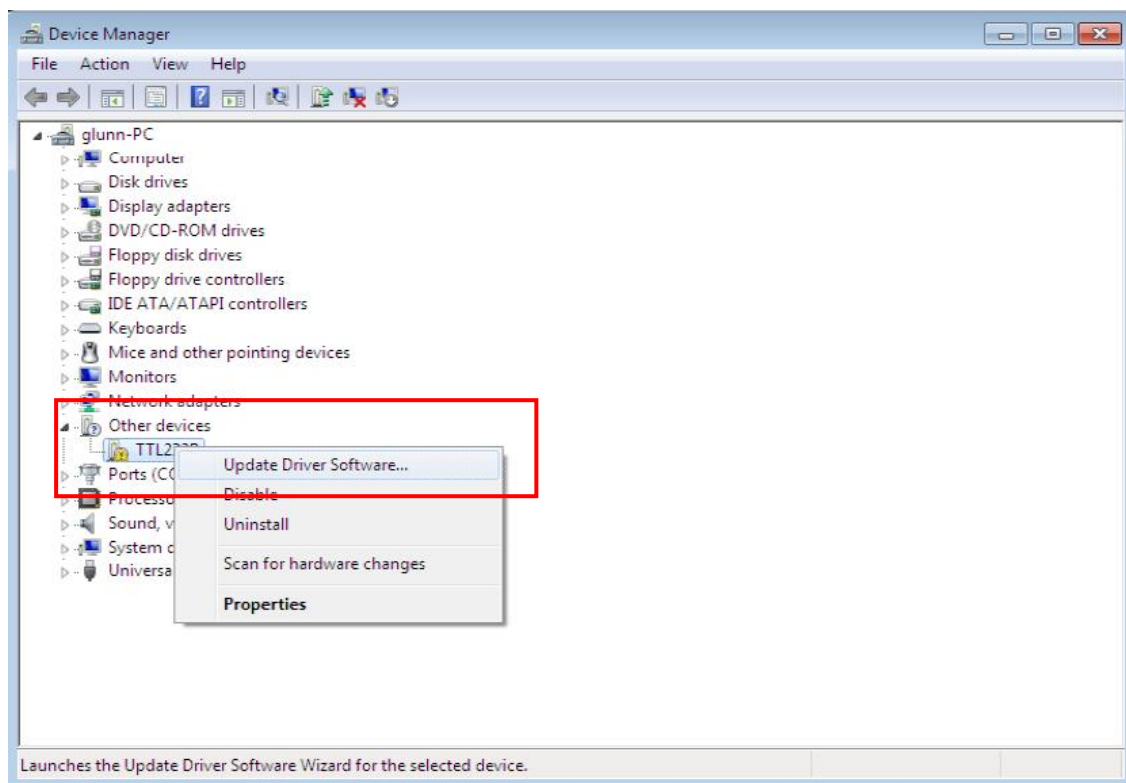
Step3 Devices and Printers



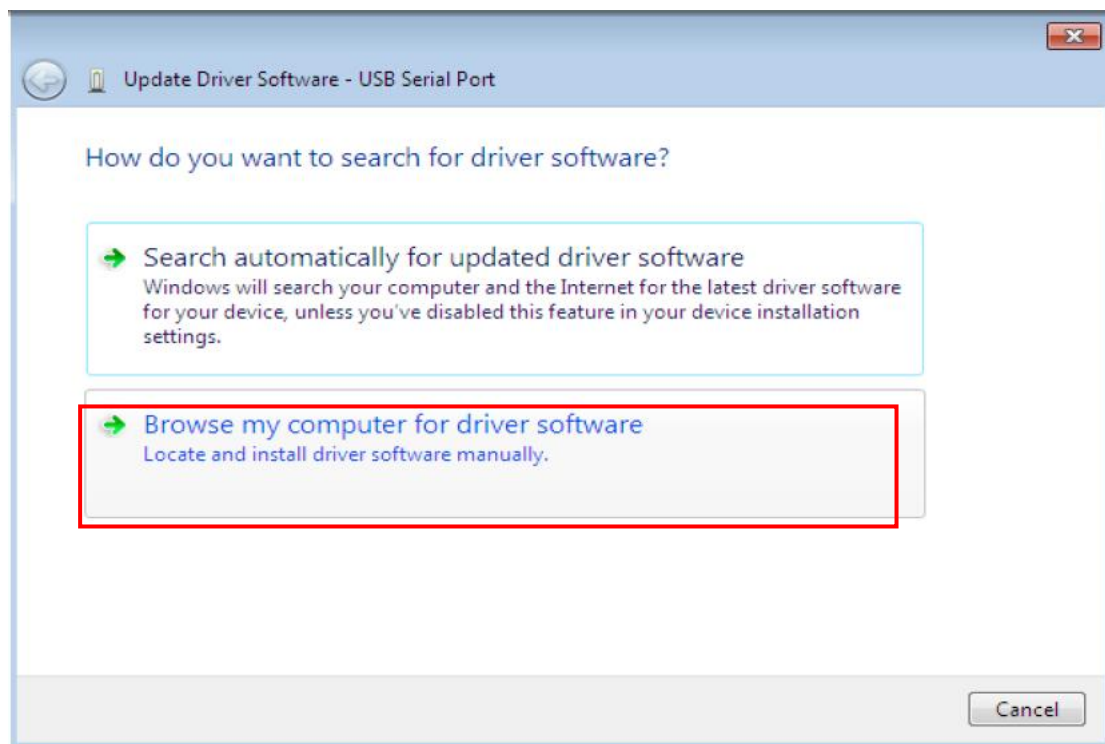
Step 4 Other device



Step 5 Update Driver Software



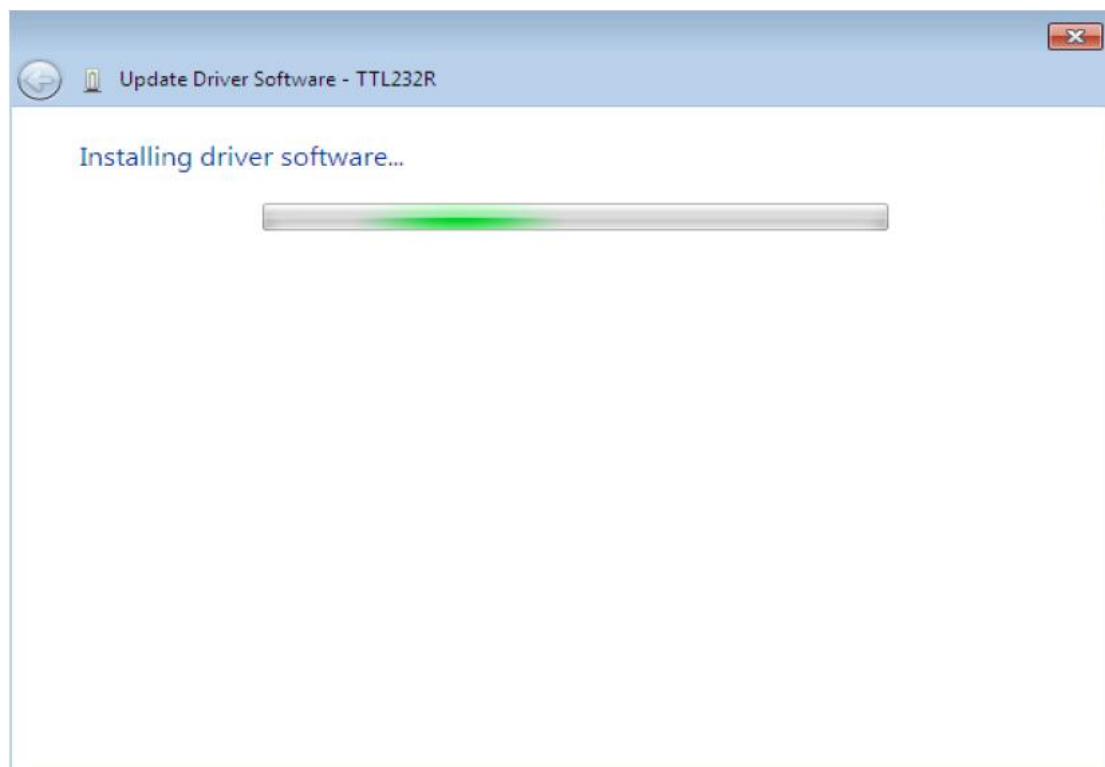
Step 6



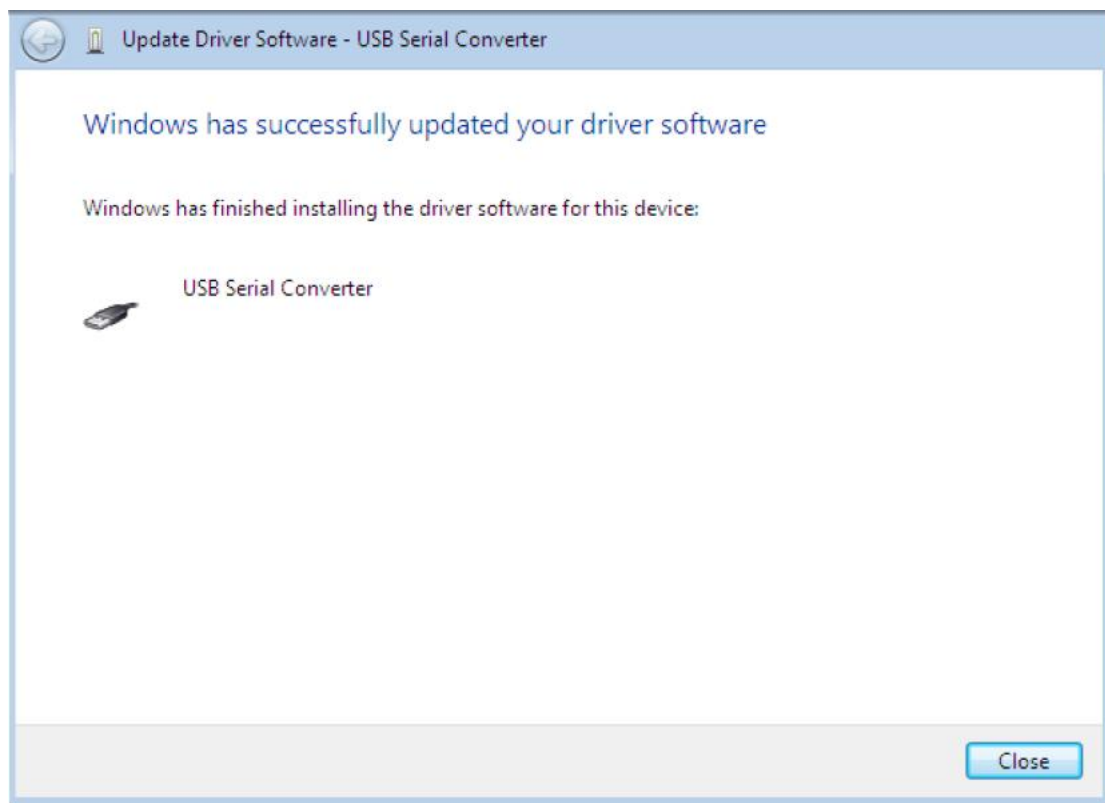
Step 7



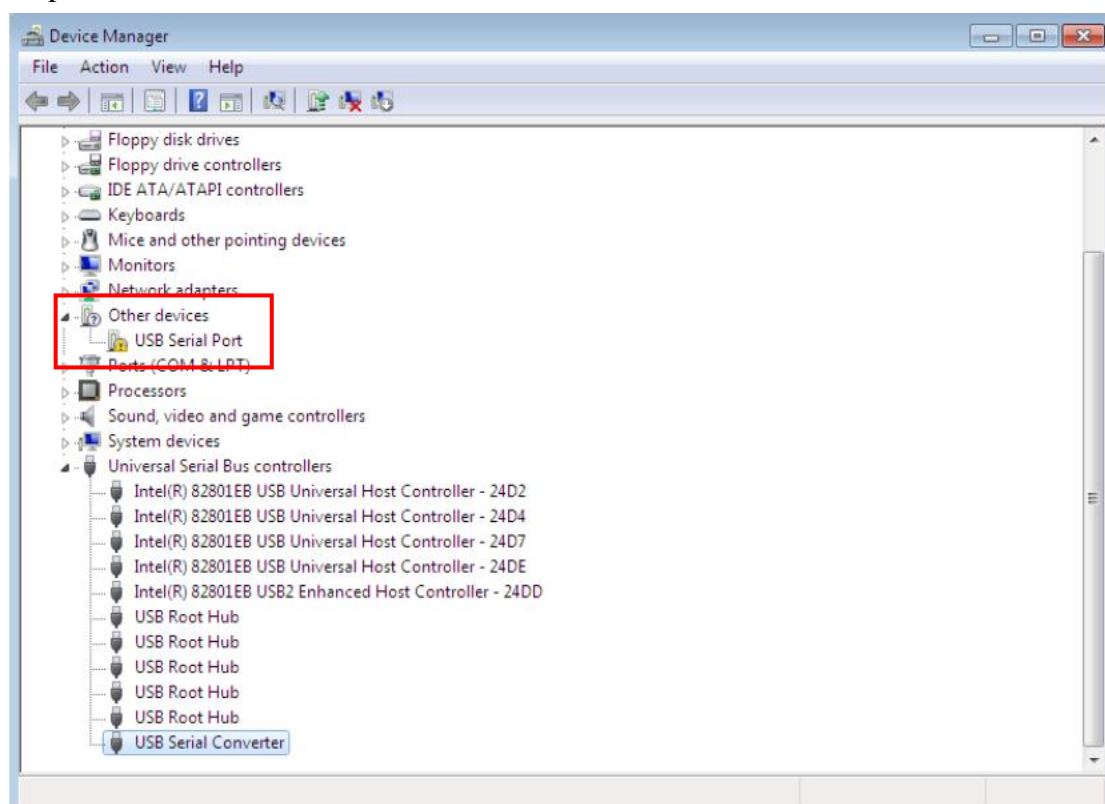
Step 8



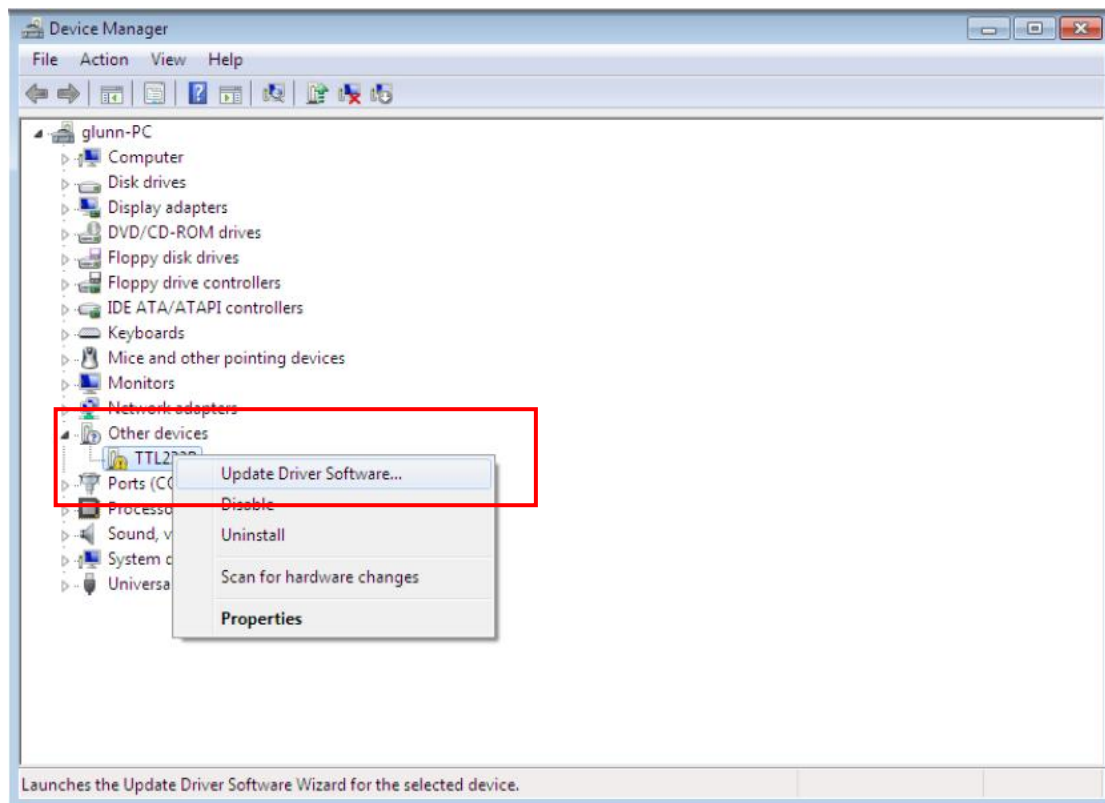
Step 9



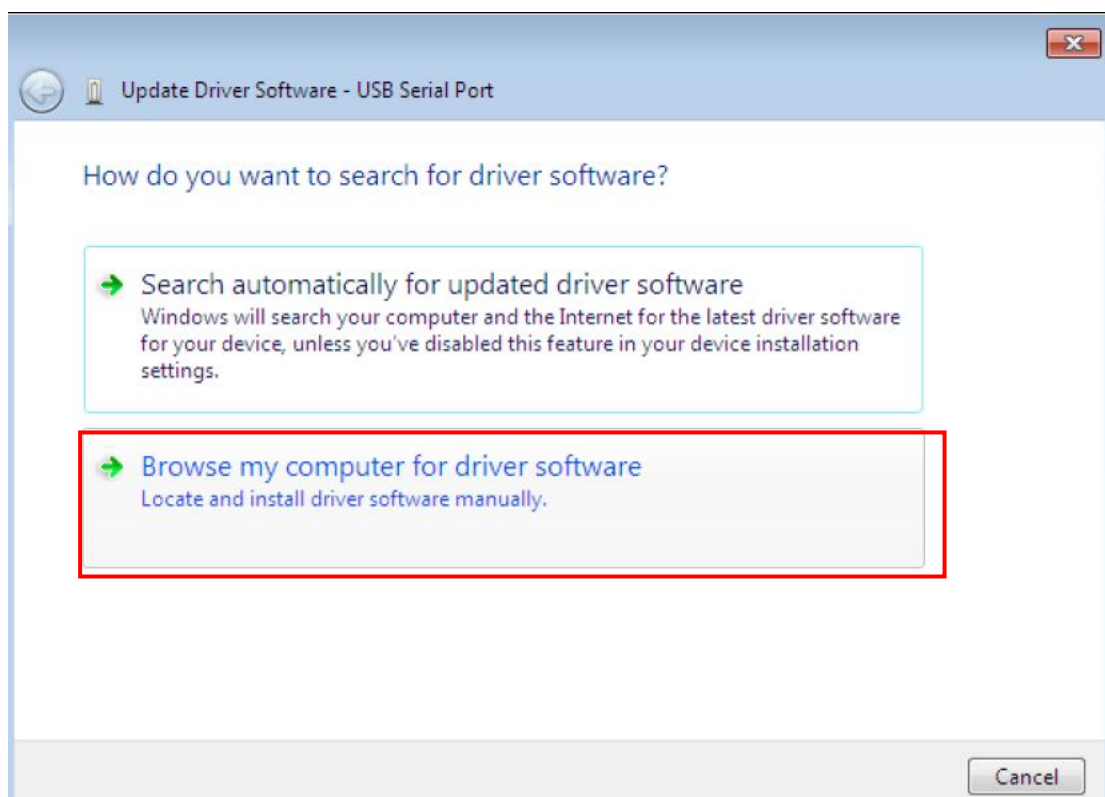
Step 10 USB Serial Port



Step 11 Update Driver Software



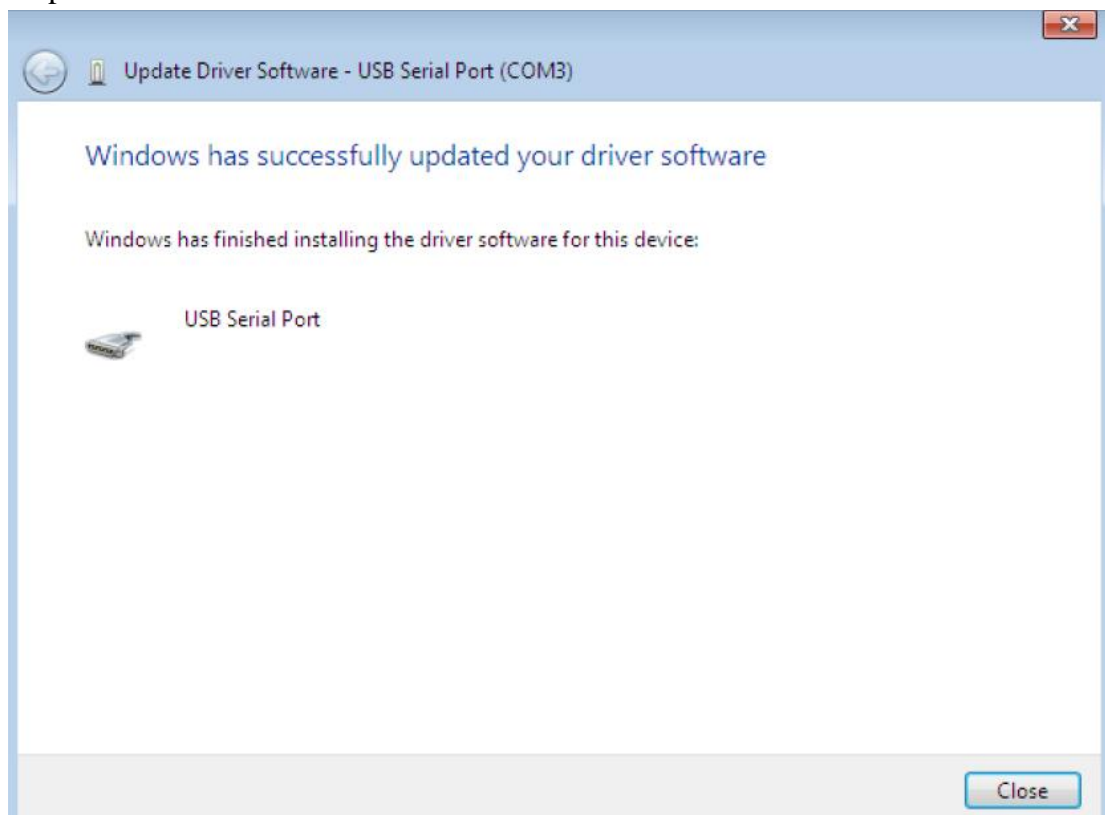
Step 12



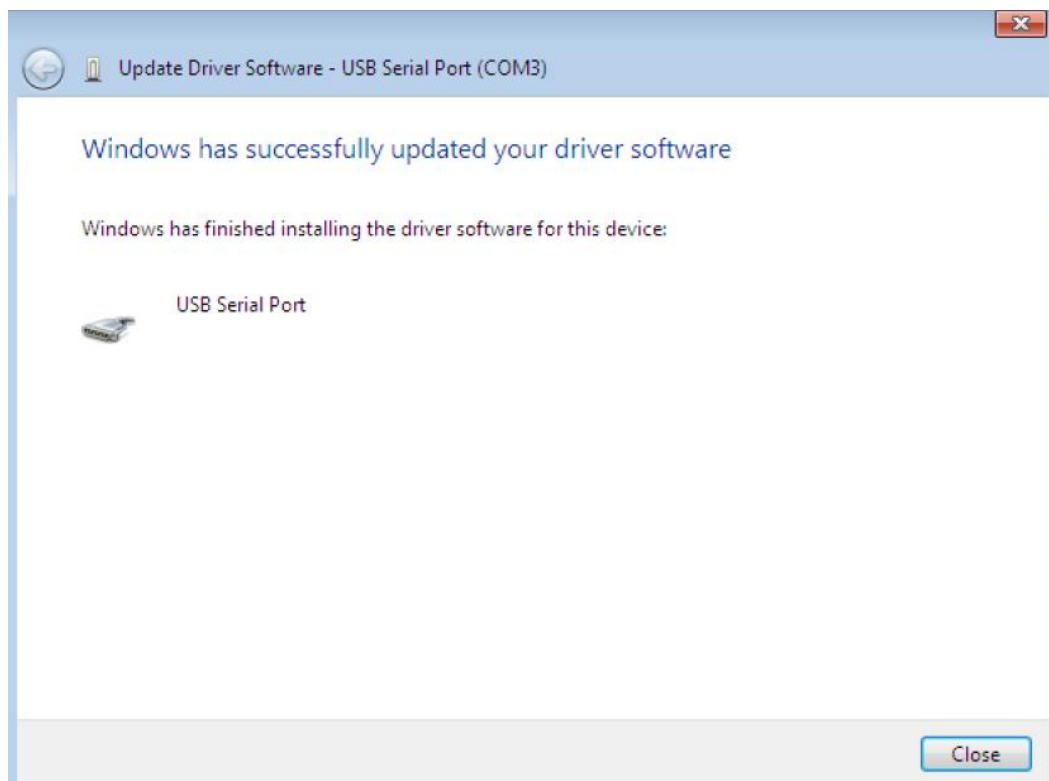
Step 13



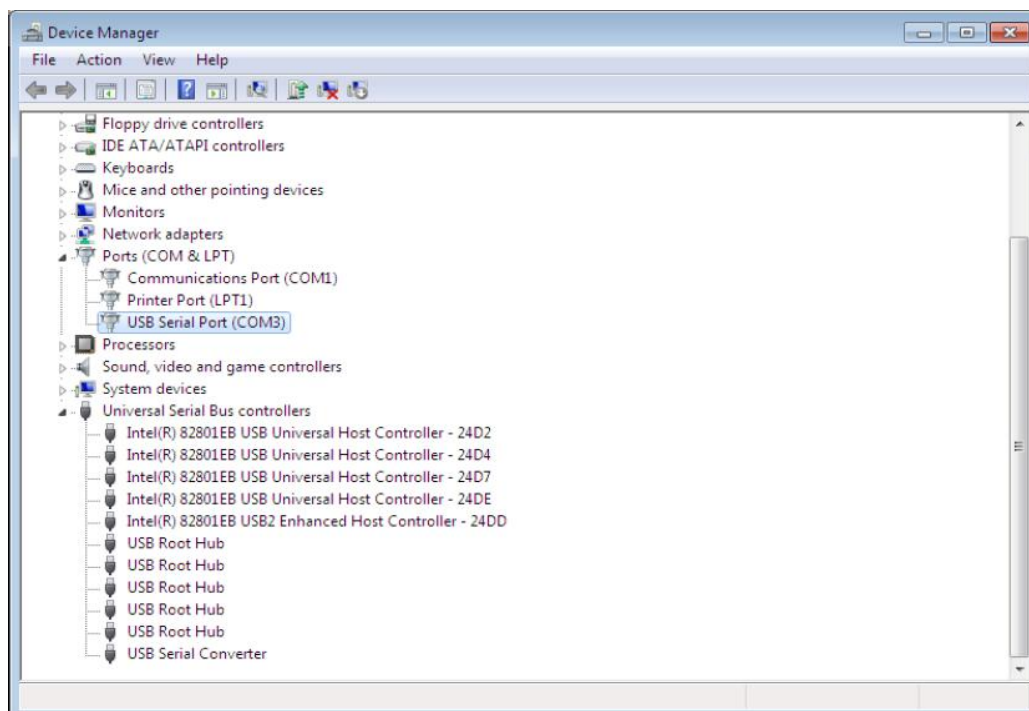
Step 14



Step 15



Step 16



US-102 2port Loop STEP 5~16 two next

US-104 4port Loop STEP 5~16 four next

USB to 1port RS232/422/485

Website: www.atil.com.tw