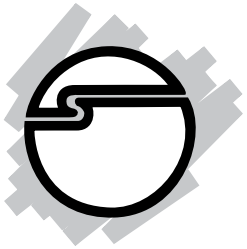

Universal PCI Serial Cards

(ID-P20011-S1/ID-P40011-S1/ID-P40111-S1/ID-P40211-S1/ID-P80011-S1)

User's Manual

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Disclaimer

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully

- Keep this User's Manual for future reference
- Keep this equipment away from humidity
- If any of the following situation arises, get the equipment checked by a service technician:
  - The equipment has been exposed to moisture.
  - The equipment has been dropped and damaged.
  - The equipment has obvious sign of breakage.
  - The equipment has not been working well or you cannot get it work according to User's Manual.

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Table of Content

Introduction....4
Hardware Specification....5
ID-P20011-S1 Specification....5
ID-P20011-S1 Dimensions....5
ID-P40011-S1 Specifications....6
ID-P40011-S1 Dimensions....6
ID-P40111-S1 Specifications....7
ID-P40111-S1 Dimensions....7
ID-P40211-S1 Specifications....8
ID-P40211-S1 Dimensions....8
ID-P80011-S1 Specifications....9
ID-P80011-S1 Dimensions....9

Software Installation....10

Jumper & Pin Assignments....20
ID-P20011-S1 Jumper & Pin assignment....20
ID-P40011-S1 Jumper & Pin assignment....22
ID-P40211-S1 Jumper & Pin assignment....24

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Introduction

Universal PCI (UPCI) multi-port serial cards can be installed in PCI or PCI-X slots, and support both 3.3V and 5V PCI/PCI-X. With a UPCI board, you can connect data acquisition equipment and other serial devices to your PC over RS-232, RS-422, or RS-485. Each board has on-chip hardware and software flow control, a built-in 128-byte Tx/Rx FIFO, and well-designed device drivers that have been fine-tuned. This allows UPCI boards to support data transfer rates of up to 921.6 Kb/s.

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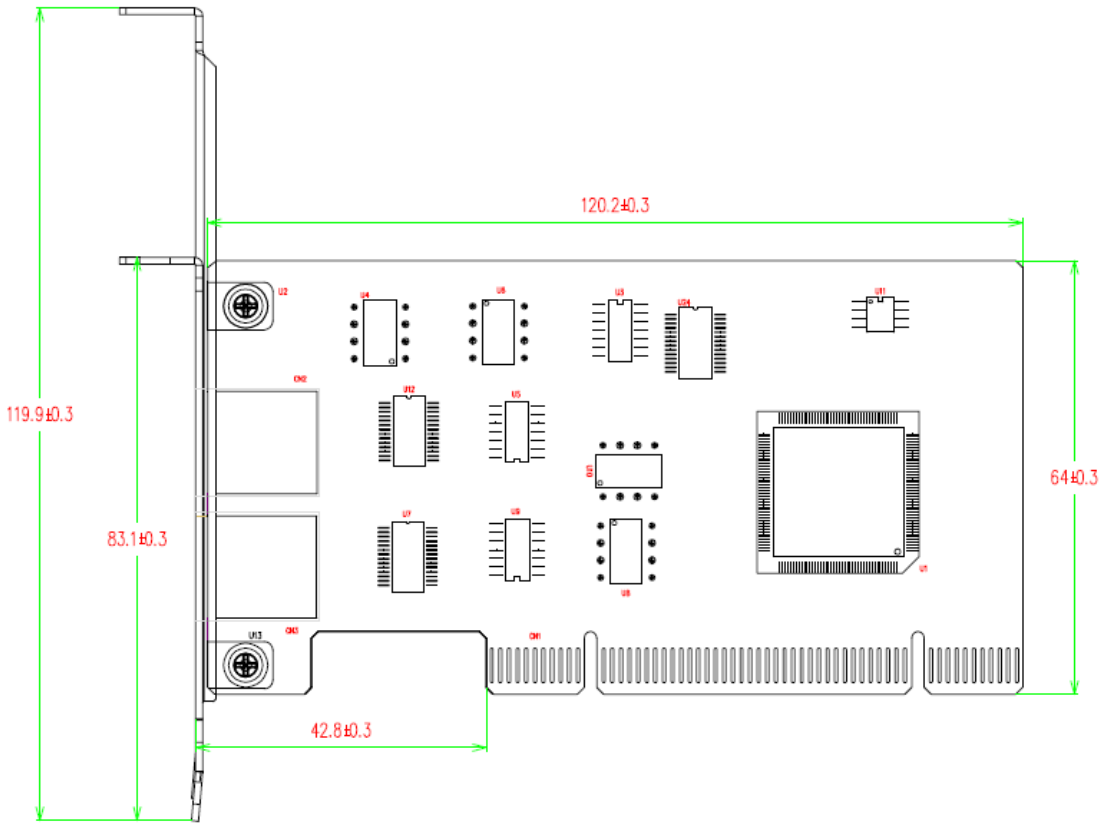
Hardware Specification

ID-P20011-S1 Specification

Ports	2xRS-232/422/485
Connector	8-pin RJ-45
FIFO	128 bytes
ESD Protection	15KV ESD
Serial Communication Speed	300 bps ~ 921.6 Kbps
Bus Interface	Universal PCI
Operating Temperature	0~55 ℃
Operating Humidity	5~95% RH
Dimensions (LxH)	120x64mm
Regulatory Approvals	FCC/CE

ID-P20011-S1 Dimensions



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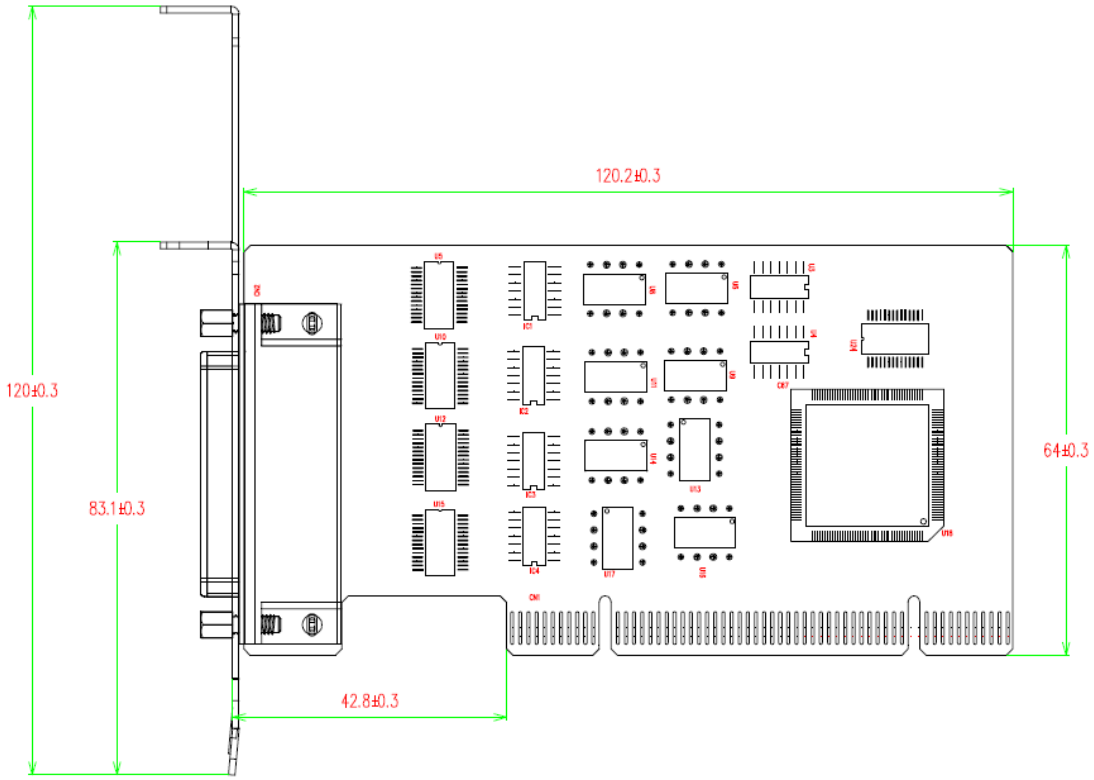
ID-P40011-S1 Specifications

Ports	4xRS-232/422/485
Connector	DB44 female
FIFO	128 bytes
ESD Protection	15KV ESD
Serial Communication Speed	300 bps ~ 921.6 Kbps
Bus Interface	Universal PCI
Operating Temperature	0~55 ℃
Operating Humidity	5~95% RH
Dimensions (LxH)	120x64mm
Regulatory Approvals	FCC/CE

ID-P40011-S1 Dimensions



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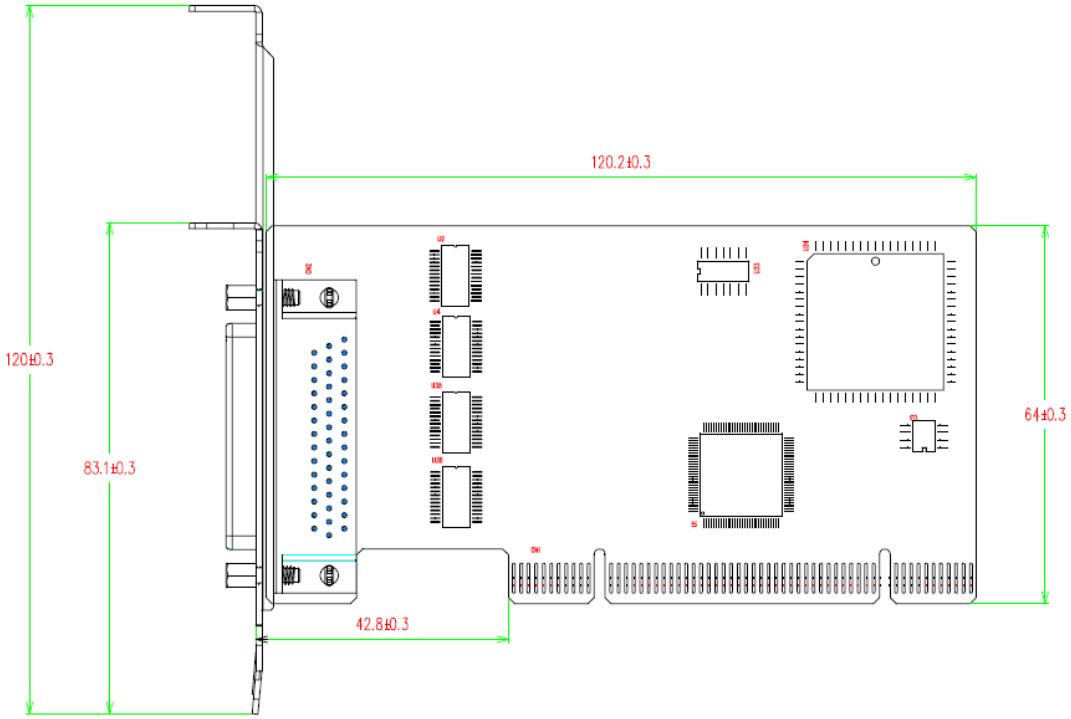
ID-P40111-S1 Specifications

Ports	4xRS-232
Connector	DB44 female
FIFO	128 bytes
ESD Protection	15KV ESD
Serial Communication Speed	300 bps ~ 921.6 Kbps
Bus Interface	Universal PCI
Operating Temperature	0~55 ℃
Operating Humidity	5~95% RH
Dimensions (LxH)	120x64mm
Regulatory Approvals	FCC/CE

ID-P40111-S1 Dimensions



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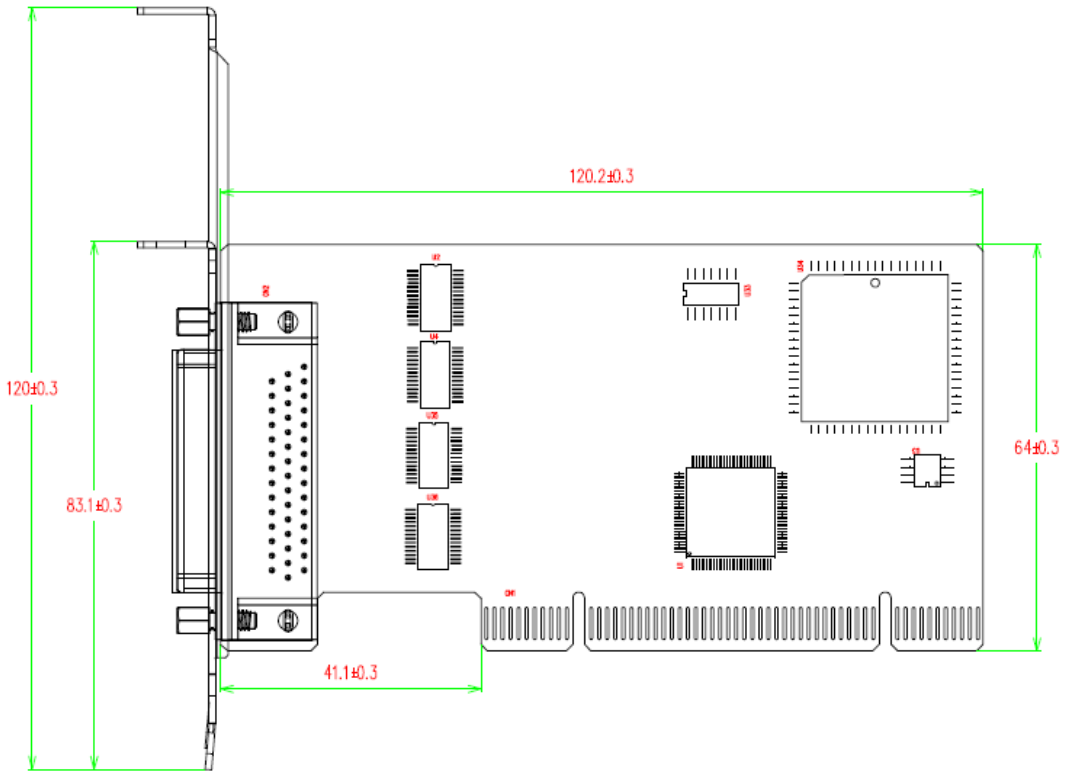
ID-P40211-S1 Specifications

Ports	4xRS-232
Connector	DB44 female
FIFO	256 bytes
ESD Protection	15KV ESD
Serial Communication Speed	300 bps ~ 921.6 Kbps
Bus Interface	Universal PCI
Operating Temperature	0~55 ℃
Operating Humidity	5~95% RH
Dimensions (LxH)	120x64mm
Regulatory Approvals	FCC/CE

ID-P40211-S1 Dimensions



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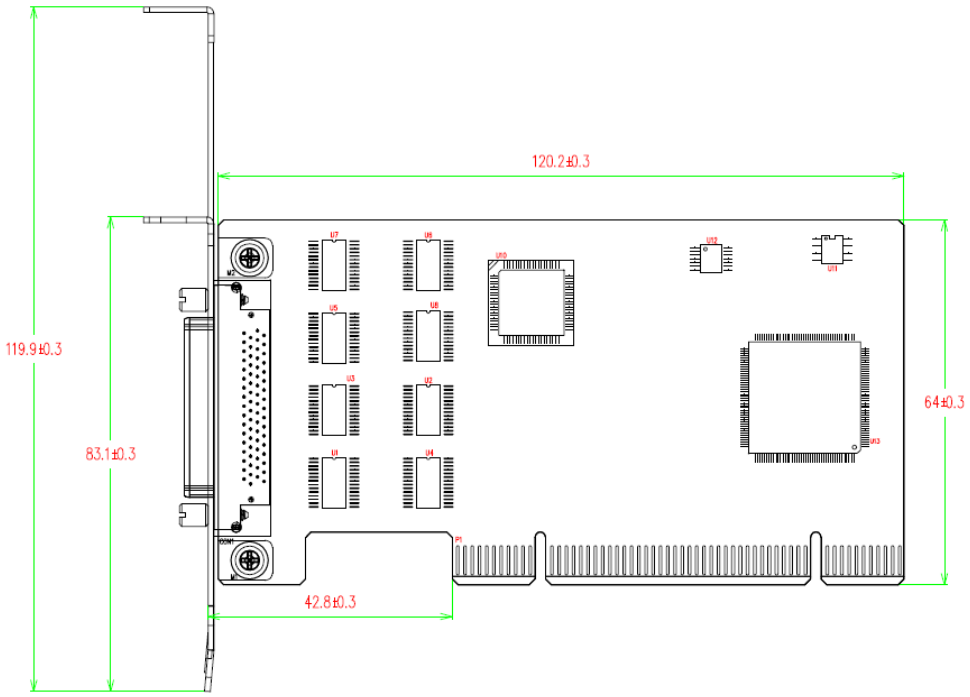
ID-P80011-S1 Specifications

Ports	8xRS-232
Connector	SCSI VHDI68 female
FIFO	128 bytes
ESD Protection	15 KV ESD, 2KV isolation
Serial Communication Speed	300 bps ~ 921.6 Kbps
Interface	Universal PCI
Operating Temperature	0~55 ℃
Operating Humidity	5~95% RH
Dimensions (LxH)	120x64mm
Regulatory Approvals	FCC/CE

ID-P80011-S1 Dimensions



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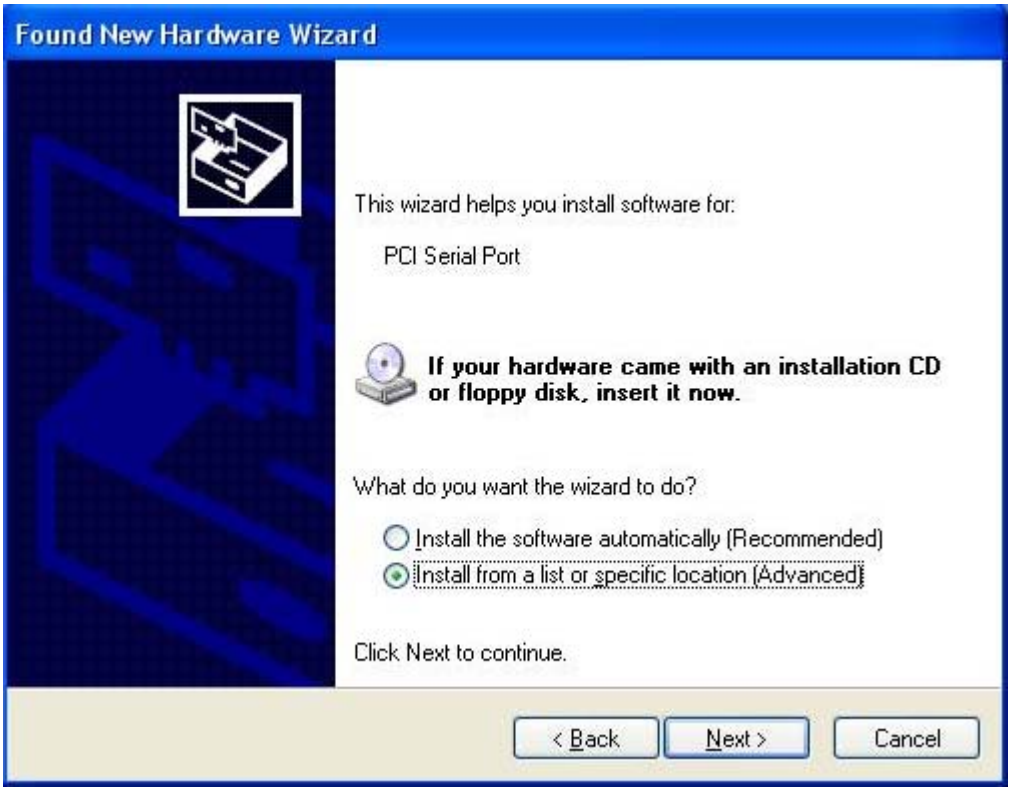
Software Installation

The board MUST be plugged in before installing the driver software.

Windows XP and Windows 7 driver installations are given below. The software installation for all other Windows versions will be similar.

Windows XP Driver Installation

1. After powering on your PC, Windows will detect the board automatically.
2. Insert the Driver CD in your CD-ROM drive.
3. Select **Install from a list or specific location (Advanced)**. Select **Yes, this time only**, then click **Next**.



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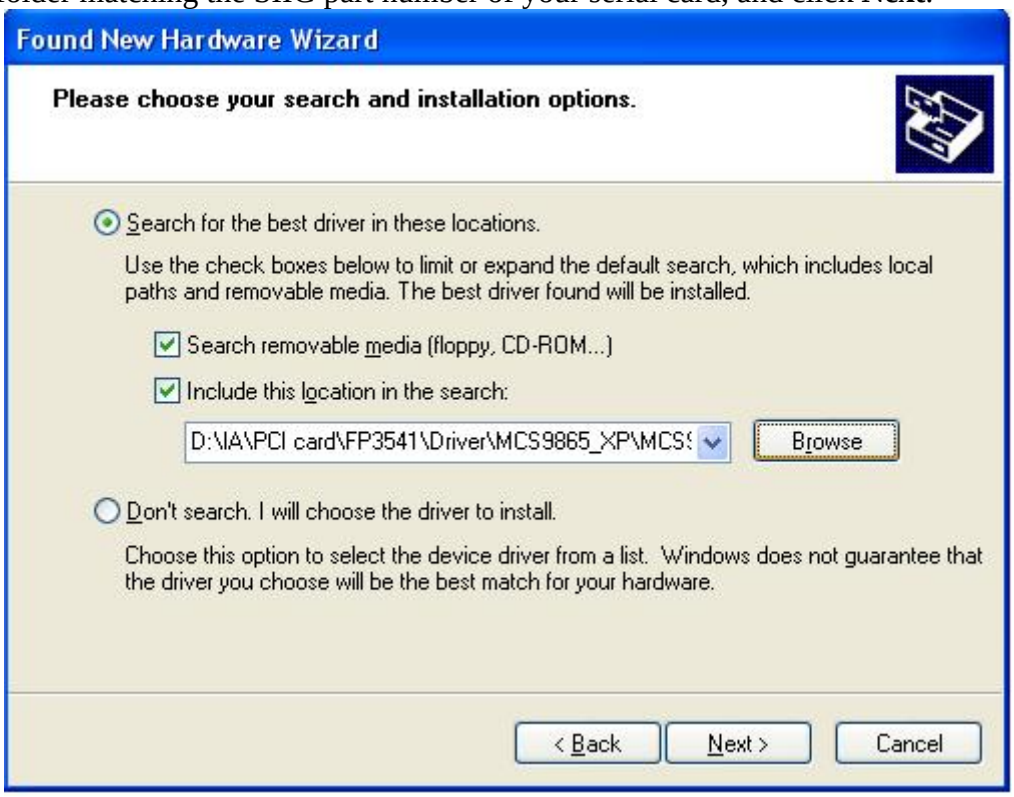
4. After selecting **Search for the best driver in these locations**, check the **Include this location in the search** checkbox, and then use the browse button to navigate the CD to find the folder matching the SIIG part number of your serial card, and click **Next**.



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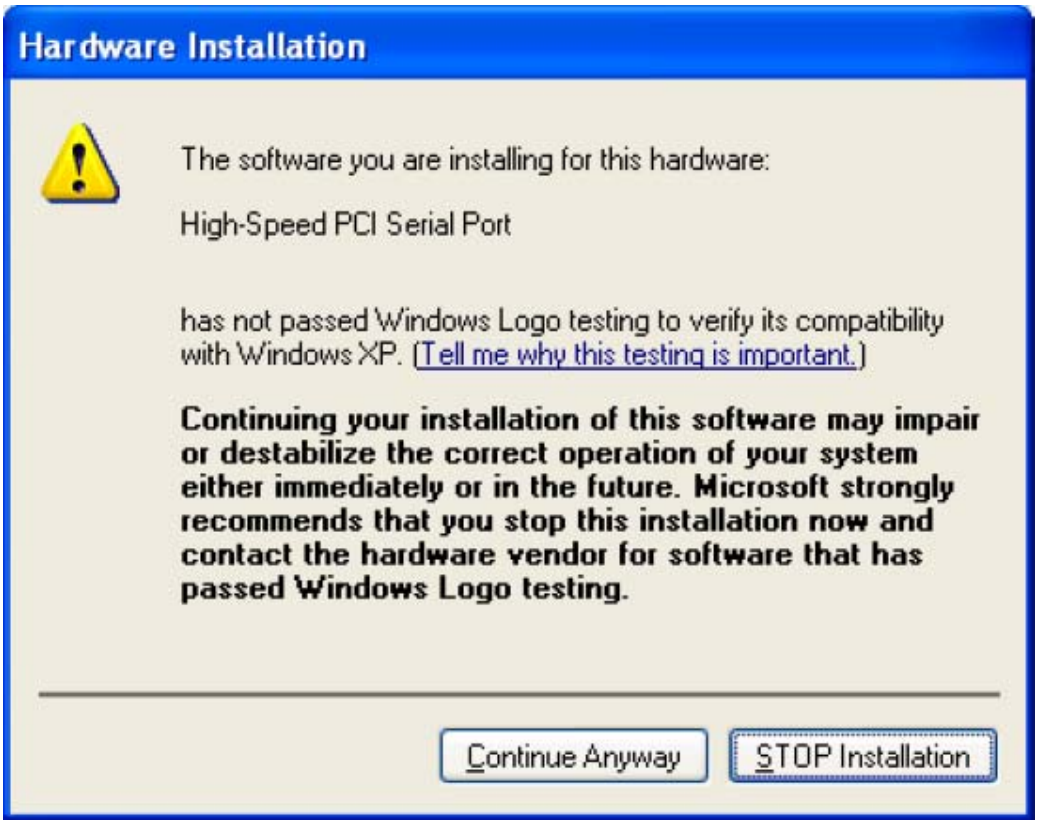
5. Click **Continue Anyway** in response to any warnings that the software hasn't passed Windows Logo testing.



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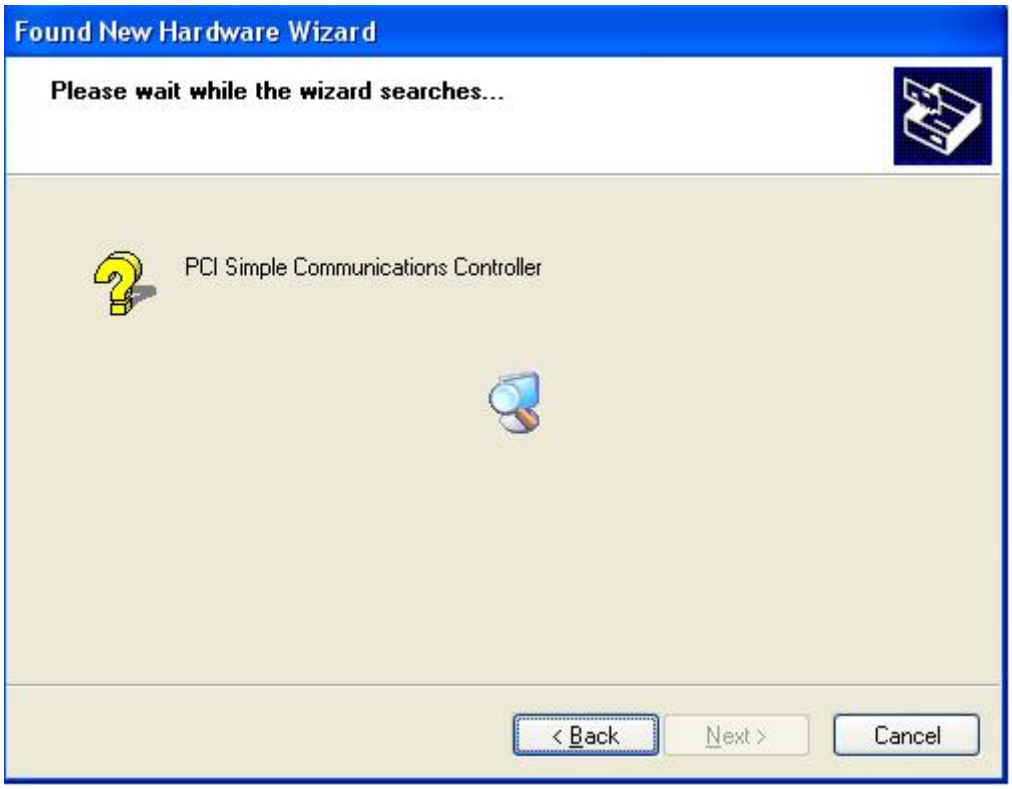
6. After the driver has been installed, the installation wizard will guide you through the port installation procedure, start with port0.



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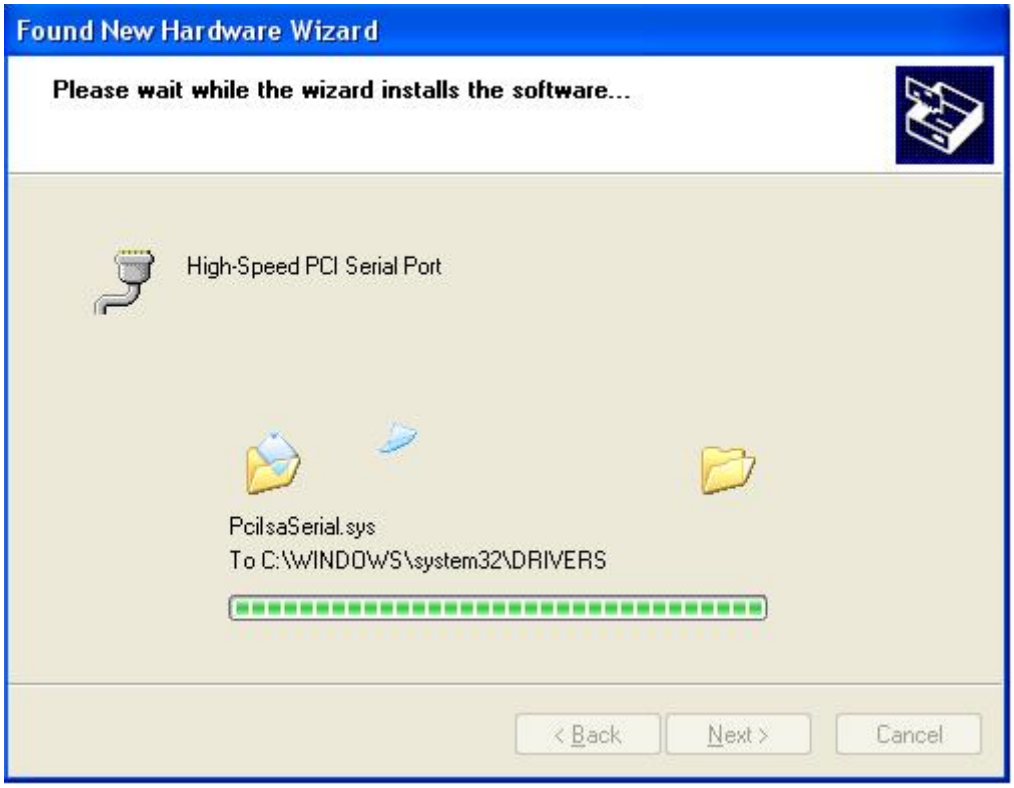

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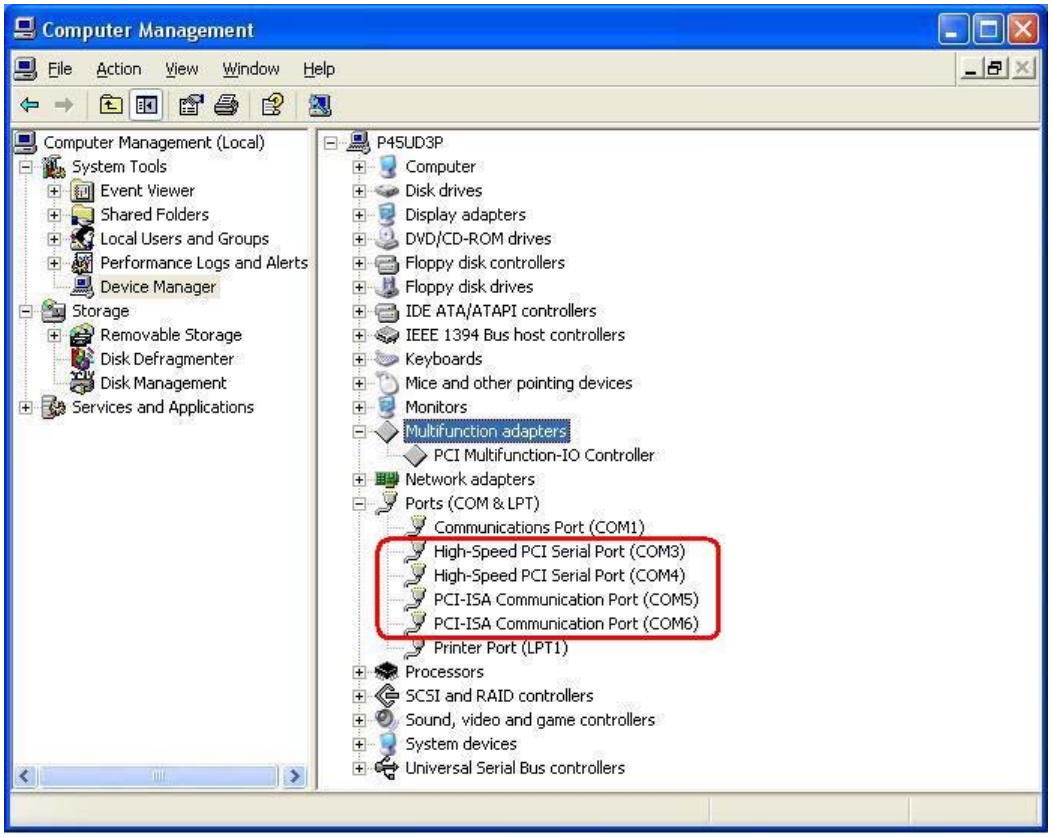
7. Use the **Device Manager** to check if the installation of the board and ports was successful. Click on the + sign next to **Hardware**, and then check under **Multifunction adapters** and **Ports (COM & LPT)**. If there are any special marks, such as a question mark or exclamation point, in front of the board or port icons, please shutdown the system and make sure that the board is solidly installed into the PCI slot of the motherboard. At this time it is a good idea to remove the card and place it into a different PCI slot, if one is available. Otherwise, install it back into the same PCI slot.



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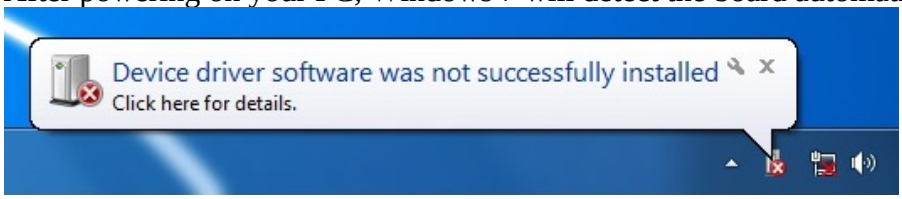
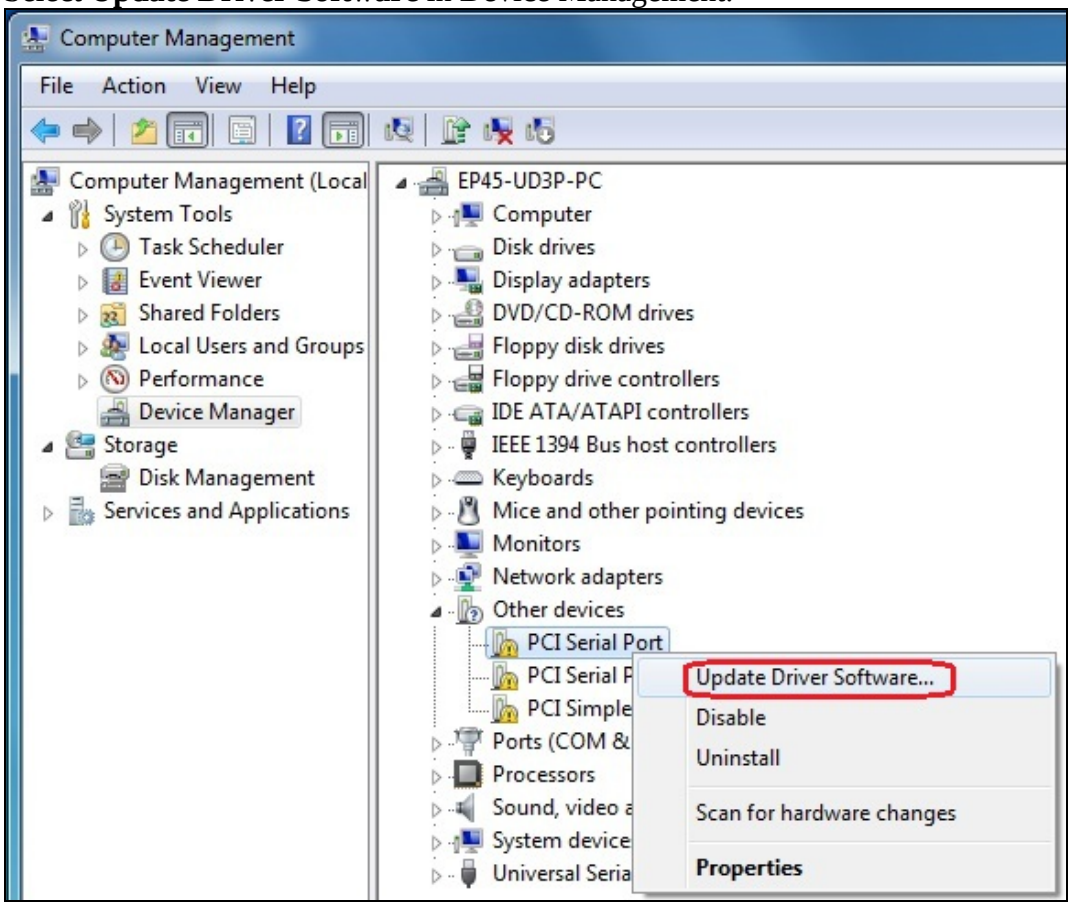
Windows 7 Driver Installation

1. After powering on your PC, Windows 7 will detect the board automatically.



2. Insert the Driver CD into your CD-ROM drive.

3. Select **Update Driver Software** in Device Management.



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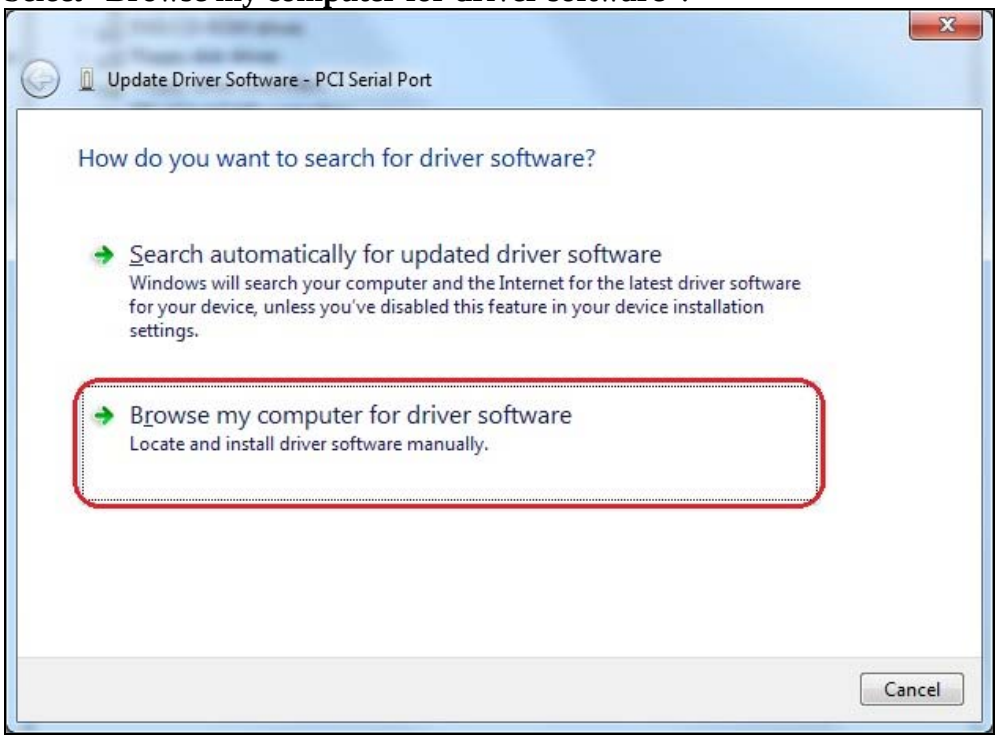
4. Select **"Browse my computer for driver software"**.



5. After selecting **Browse for driver software on your computer**, use the browse button to navigate the CD to find the folder matching the SIIG part number of your serial card. Then click **Next**.

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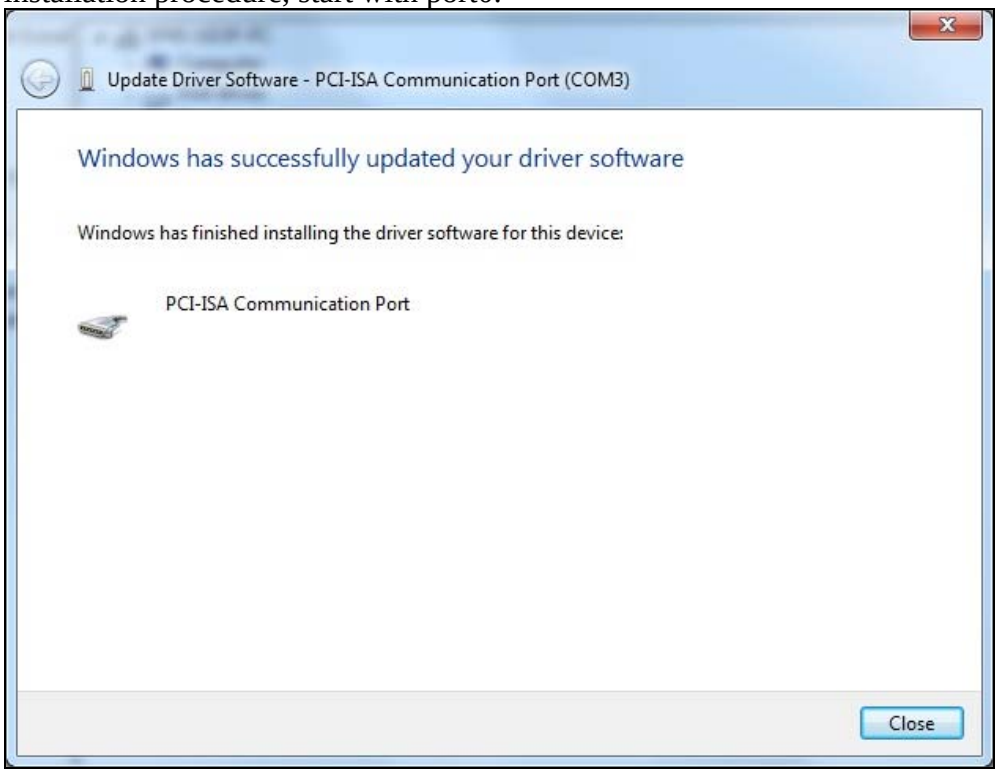
6. Click **Install this driver software anyway** in response to any warnings that the software hasn't passed Windows Logo testing.

7. After the driver has been installed, the installation wizard will guide you through the port installation procedure, start with port0.



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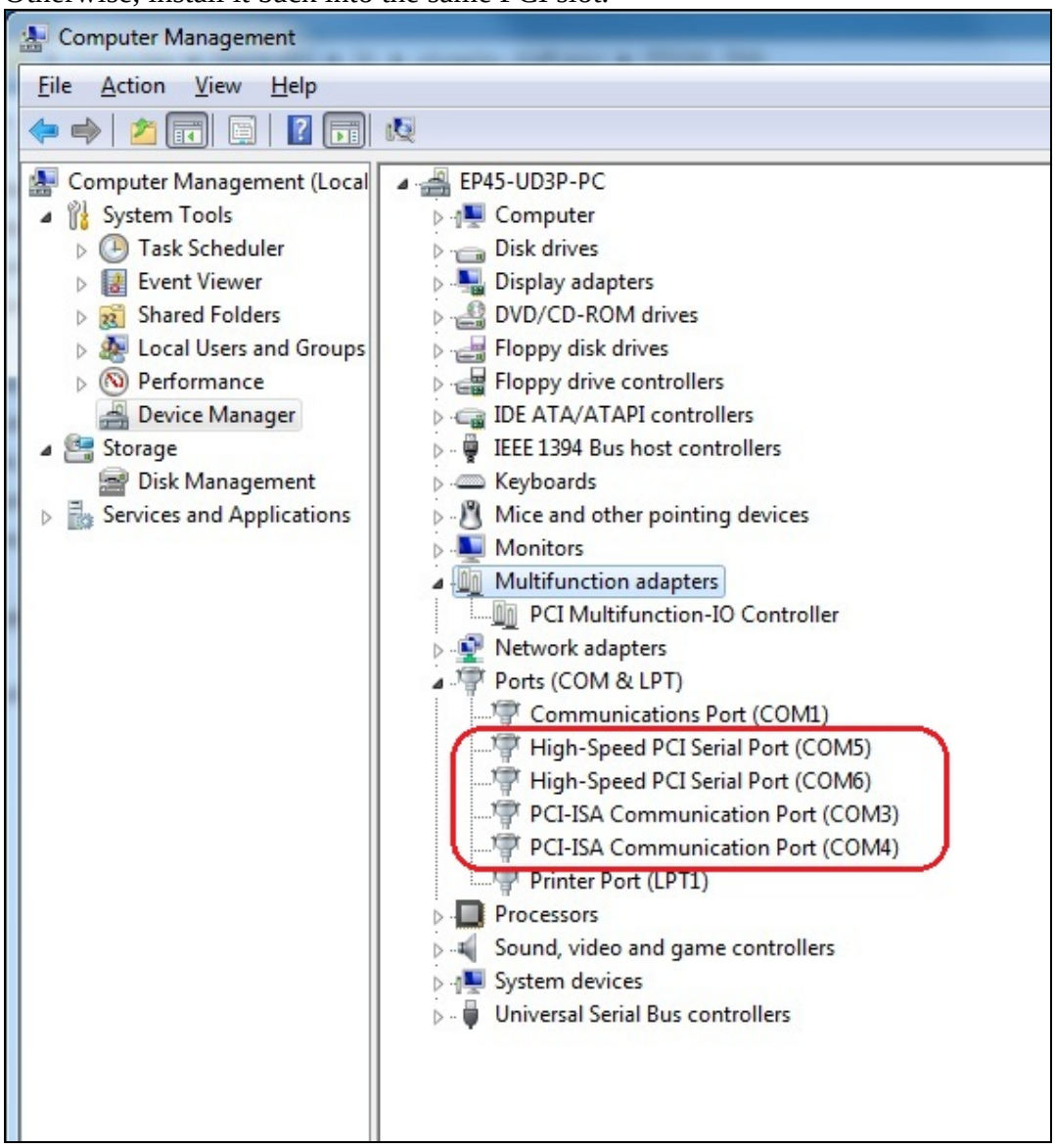
8. Use the **Device Manager** to check if the installation of the board and ports was successful. Click on the + sign next to **Hardware**, and then check under **Multifunction adapters** and **Ports (COM & LPT)**. If there are any special marks, such as a question mark or exclamation point, in front of the board or port icons, please shutdown the system and make sure that the board is solidly installed into the PCI slot of the motherboard. At this time it is a good idea to remove the card and place it into a different PCI slot, if one is available. Otherwise, install it back into the same PCI slot.



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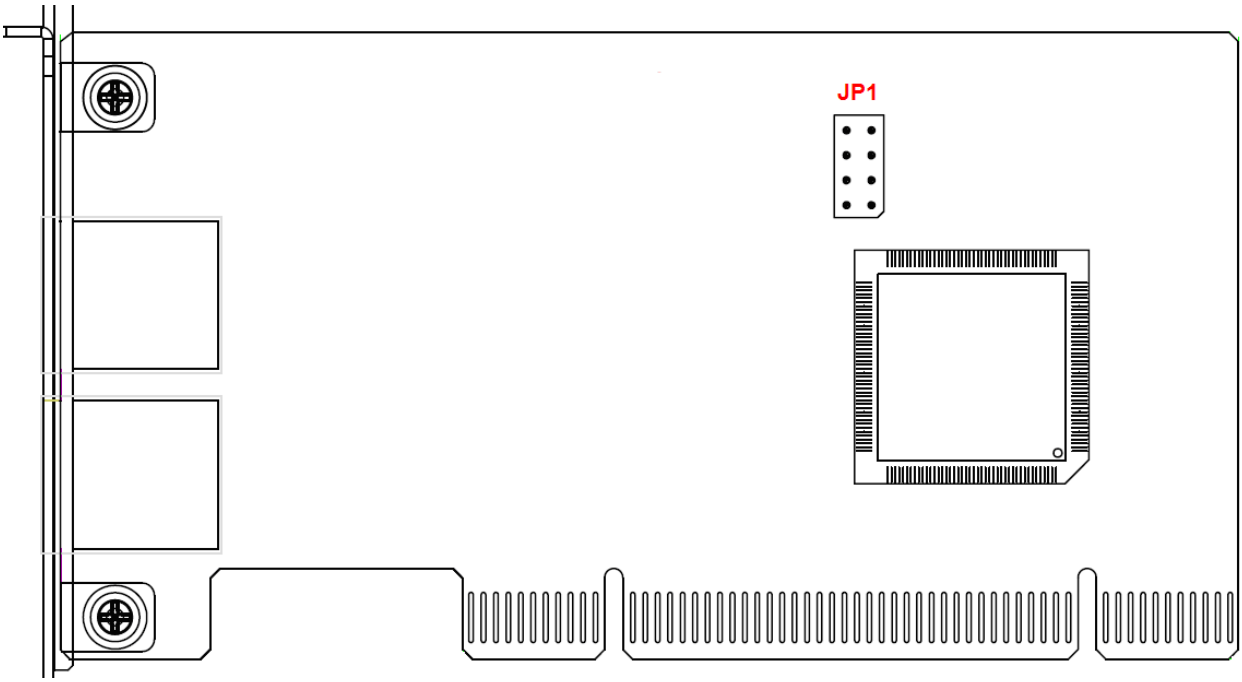
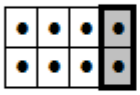
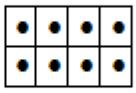
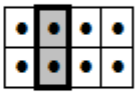
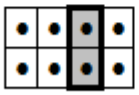
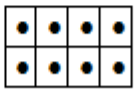
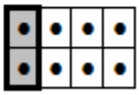
Jumper & Pin Assignments

ID-P20011-S1 Jumper & Pin assignment



	RS-232	RS-422 / RS-485 (4-wire)	RS-485(2-wire)
	JP1	JP1	JP1
Port1			
Port2			

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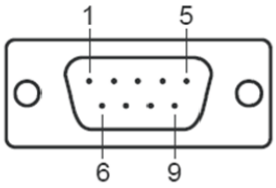

Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
1	DCD	TxD-(A)	TxD-(A)	Data-(A)
2	RxD	---	---	---
3	TxD	---	---	---
4	DTR	TxD+(B)	TxD+(B)	Data+(B)
5	GND	GND	GND	---
6	DSR	RxD-(A)	RxD-(A)	---
7	RTS	RxD+(B)	RxD+(B)	---
8	CTS	---	---	---
9	---	---	---	---

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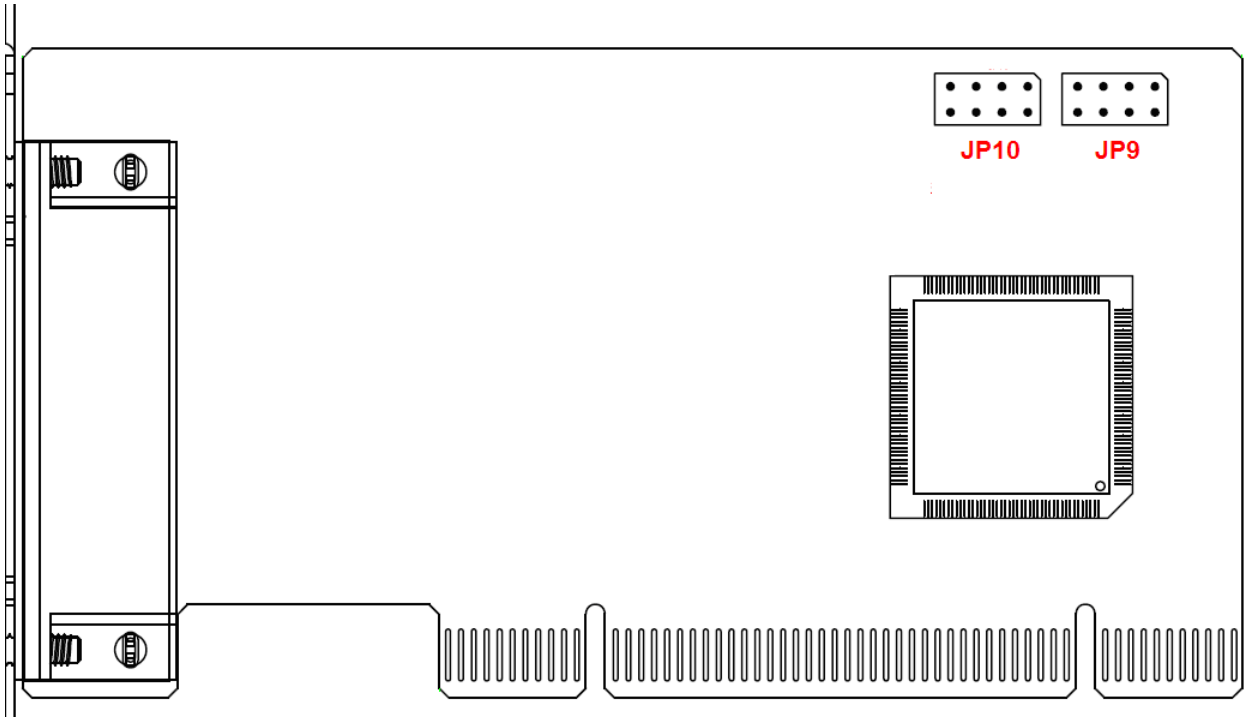
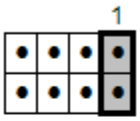
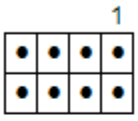
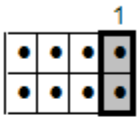
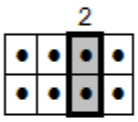
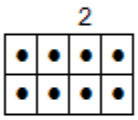
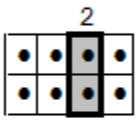
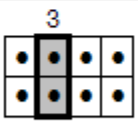
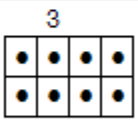
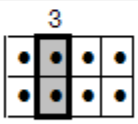
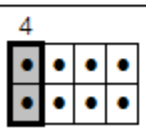
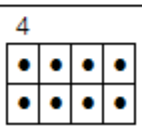
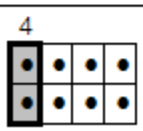
ID-P40011-S1 Jumper & Pin assignment



	RS-232	RS-422 / RS-485 (4-wire)	RS-485(2-wire)
	JP9	JP10	JP10
Port1			
Port2			
Port3			
Port4			

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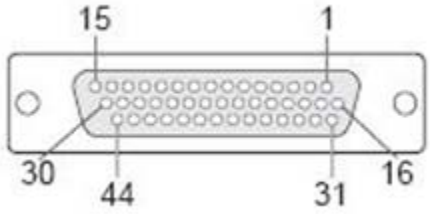
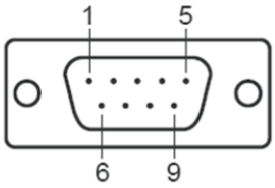


Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	TxD3	13	TxD0	25	DTR1	37	GND
2	RxD3	14	RxD0	26	DSR1	38	---
3	RTS3	15	RTS0	27	---	39	DCD1
4	---	16	CTS3	28	CTS0	40	RI1/5V/12V
5	TxD2	17	DTR3	29	DTR0	41	GND
6	RxD2	18	DSR3	30	DSR0	42	DCD0
7	RTS2	19	---	31	DCD3	43	RI0/5V/12V
8	---	20	CTS2	32	RI3/5V/12V	44	GND
9	TxD1	21	DTR2	33	GND		
10	RxD1	22	DSR2	34	---		
11	RTS1	23	---	35	DCD2		
12	---	24	CTS1	36	RI2/5V/12V		



Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
1	DCD	TxD-(A)	TxD-(A)	Data-(A)
2	RxD	---	---	---
3	TxD	---	---	---
4	DTR	TxD+(B)	TxD+(B)	Data+(B)
5	GND	GND	GND	---
6	DSR	RxD-(A)	RxD-(A)	---
7	RTS	RxD+(B)	RxD+(B)	---
8	CTS	---	---	---
9	---	---	---	---

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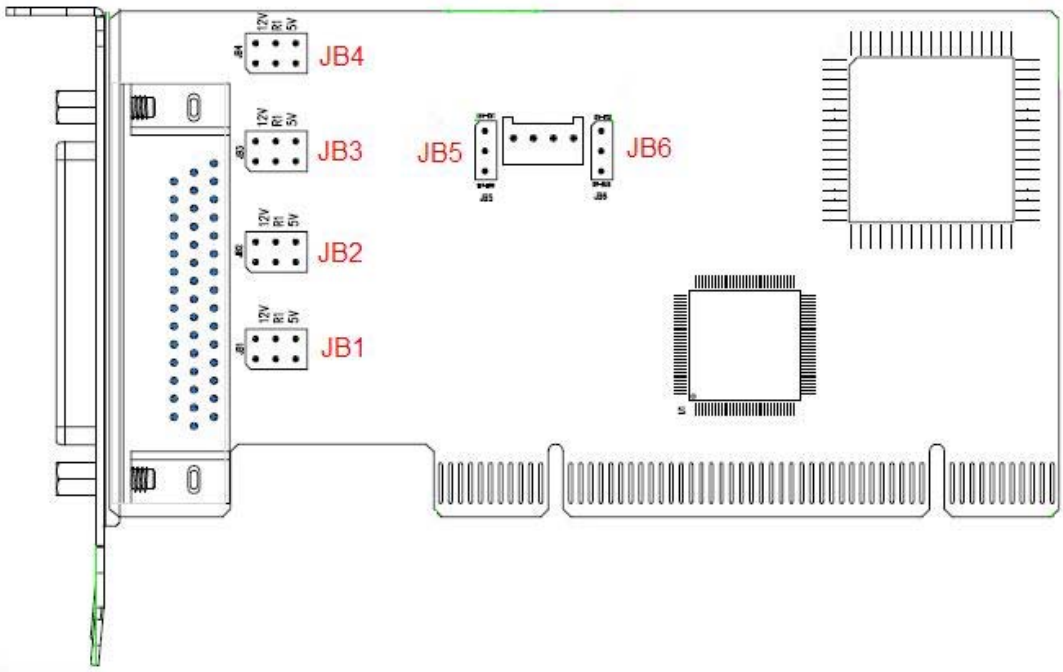
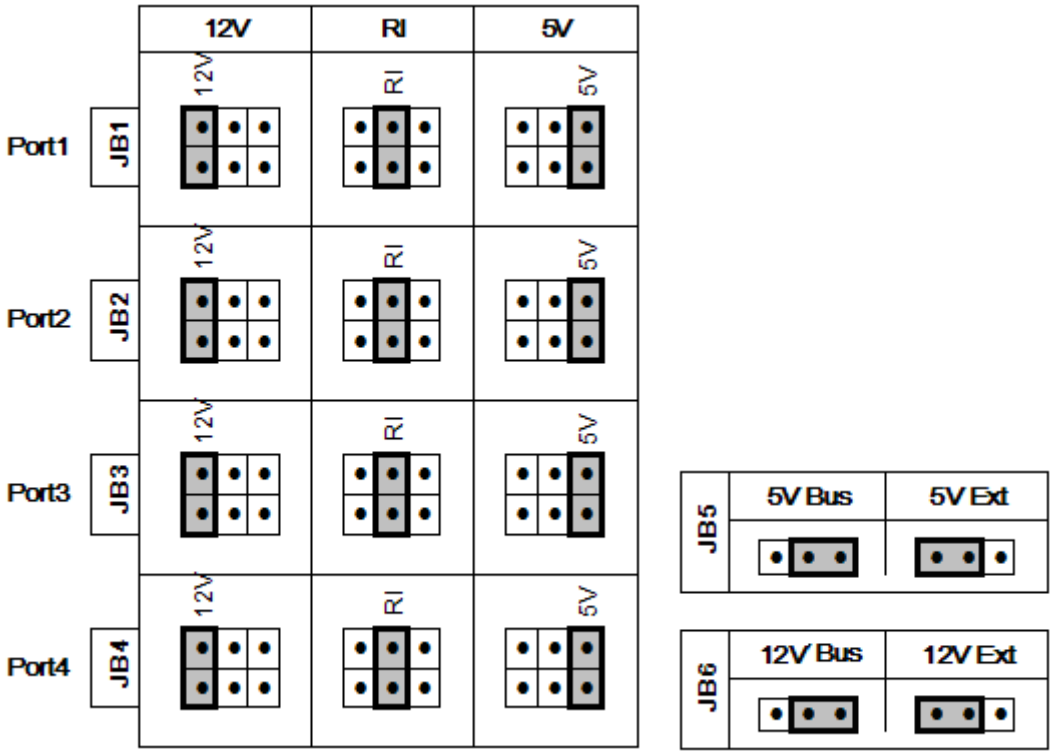
ID-P40211-S1 Jumper & Pin assignment





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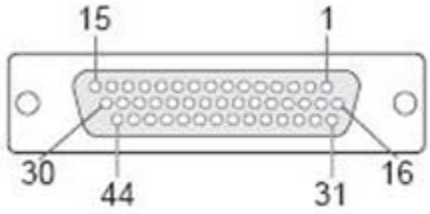
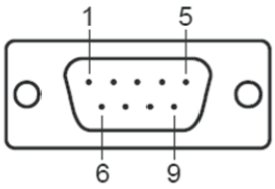


Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	TxD3	13	TxD0	25	DTR1	37	GND
2	RxD3	14	RxD0	26	DSR1	38	---
3	RTS3	15	RTS0	27	---	39	DCD1
4	---	16	CTS3	28	CTS0	40	RI1/5V/12V
5	TxD2	17	DTR3	29	DTR0	41	GND
6	RxD2	18	DSR3	30	DSR0	42	DCD0
7	RTS2	19	---	31	DCD3	43	RI0/5V/12V
8	---	20	CTS2	32	RI3/5V/12V	44	GND
9	TxD1	21	DTR2	33	GND		
10	RxD1	22	DSR2	34	---		
11	RTS1	23	---	35	DCD2		
12	---	24	CTS1	36	RI2/5V/12V		



Pin	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI/5V/12V

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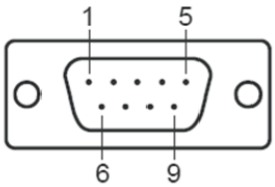
ID-P80011-S1: VHDCI68 (female) connector

Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal	Pin	Signal
1	RxD0	14	RTS2	27	TxD6	40	DTR1	53	CTS5	66	RI7
2	CTS0	15	RI2	28	DSR6	41	DSR1	54	RI5	67	CTS7
3	RI0	16	CTS2	29	DTR6	42	TxD1	55	RTS5	68	RxD7
4	RTS0	17	RxD2	30	DCD6	43	GND	56	DCD5		
5	DCD0	18	RxD4	31	RTS6	44	TxD3	57	DTR5		
6	DTR0	19	CTS4	32	RI6	45	DSR3	58	DSR5		
7	DSR0	20	RI4	33	CTS6	46	DTR3	59	TxD5		
8	TxD0	21	RTS4	34	RxD6	47	DCD3	60	GND		
9	GND	22	DCD4	35	RxD1	48	RTS3	61	TxD7		
10	TxD2	23	DTR4	36	CTS1	49	RI3	62	DSR7		
11	DSR2	24	DSR4	37	RI1	50	CTS3	63	DTR7		
12	DTR2	25	TxD4	38	RTS1	51	RxD3	64	DCD7		
13	DCD2	26	GND	39	DCD1	52	RxD5	65	RTS7		



Pin	RS-232
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	---

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B) If your purchase has passed the store's return policy period, please follow these steps to have the product repaired or replaced.

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Step 2: After obtaining an RMA number, ship the product.

- Properly pack the product for shipping. All software, cable(s) and any other accessories that came with the original package must be included.

- Clearly write your RMA number on the top of the returned package. SIIG will refuse to accept any shipping package, and will not be responsible for a product returned without an RMA number posted on the outside of the shipping carton.

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