

PCI Express IEEE1284 Parallel Communication Board



Introduction

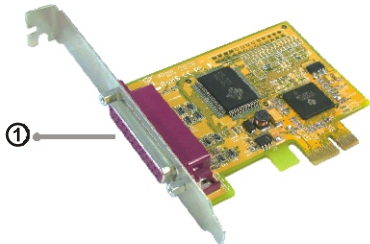
Thank you for purchasing IEEE1284 interface PCI Express x1 one lan add-on card . This card enables users to expand one or two additional LPT ports on their PC-based system for connecting their parallel devices. Parallel (LPT) port offer data transfer rate up to 2.7Mbps with built-in ECP/EPP/SPP/BPP autoswitching operation modes to give you maximum system performance and efficiency via DB25 pin female connector. Due to current mainboard does not equip any Parallel (LPT) port, this card is your best solution to utilize your CENTRONICS peripheral with parallel port in an easy-to-use environment and creates for use in the commercial automation and as well ideal for home or office uses.

Specification

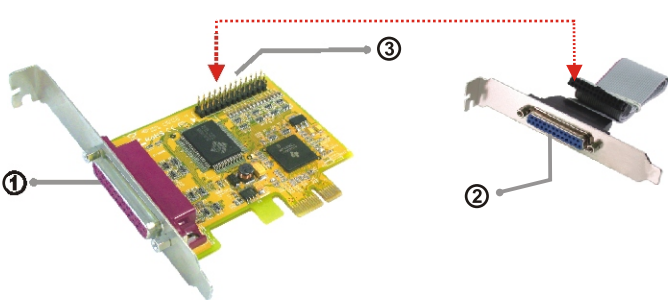
Model	PCI Express IEEE1284 Parallel Board																										
Bus Interface	PCI Express x1 one lane Specification.																										
Controller	SUN1888 IEEE1284 Parallel Controller																										
Number of Ports	One or Two DB25 Female Ports																										
IRQ & IO Address	Assigned by BIOS / O.S.																										
FIFO	16 byte Hardware FIFO																										
Data Speed	Maximum 2.7Mbps																										
Operation Mode	ECP/EPP/SPP/BPP (System Auto-Switching)																										
Bracket	Standard 121 mm (Optional Low Profile 79.2 mm)																										
Driver Support	Windows 2000 / XP / 2003 / Vista (32/64-bit) Linux 2.4.x, 2.6.x, DOS																										
Certification	CE, FCC ClassB / Microsoft WHQL / RoHS																										
Pin Assignment	<div><p>DB25F</p><table><tr><td>AUTO FEED 14</td><td>1 STROBE</td></tr><tr><td>ERROR 15</td><td>2 DATA0</td></tr><tr><td>INIT 16</td><td>3 DATA1</td></tr><tr><td>SELECT INPUT 17</td><td>4 DATA2</td></tr><tr><td>GND 18</td><td>5 DATA3</td></tr><tr><td>GND 19</td><td>6 DATA4</td></tr><tr><td>GND 20</td><td>7 DATA5</td></tr><tr><td>GND 21</td><td>8 DATA6</td></tr><tr><td>GND 22</td><td>9 DATA7</td></tr><tr><td>GND 23</td><td>10 ACKNOWLEDGE</td></tr><tr><td>GND 24</td><td>11 BUSY</td></tr><tr><td>GND 25</td><td>12 PAPER EMPTY</td></tr><tr><td></td><td>13 SELECT</td></tr></table></div>	AUTO FEED 14	1 STROBE	ERROR 15	2 DATA0	INIT 16	3 DATA1	SELECT INPUT 17	4 DATA2	GND 18	5 DATA3	GND 19	6 DATA4	GND 20	7 DATA5	GND 21	8 DATA6	GND 22	9 DATA7	GND 23	10 ACKNOWLEDGE	GND 24	11 BUSY	GND 25	12 PAPER EMPTY		13 SELECT
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Environment	Operation Temperature: 0°C~ 60°C (32 to 140°F) Storage Temperature: -20°C~ 85°C (-4 to 185°F) Humidity: 5 ~ 95% RH																										

Hardware Guide

1-port PCI Express IEEE1284 Parallel Board



2-port PCI Express IEEE1284 Parallel Board



- ① Parallel Port 1 (LPT2)
- ② Parallel Port 2 (LPT3) / DB25F Connector Bracket Set
Only for 2-port Parallel Card
- ③ Pin Header to Parallel Connector
Please connect ② & ③ with each other.

Package List

Please check if the following items are present and in good condition upon opening your package. Contact your vendor if any item is damaged or missing.

- PCI Express IEEE1284 Parallel Communication Board
- Quick Installation Guide (this document)
- CD Driver
- Second LPT Port Expansion Cable with Bracket (Note)

NOTE:

We provide 1 or 2 parallel LPT ports product for user selection. The expansion LPT port and cable accessory will depend on what product you bought. Only two parallel LPT ports product attaches cable accessory.

Driver Installation

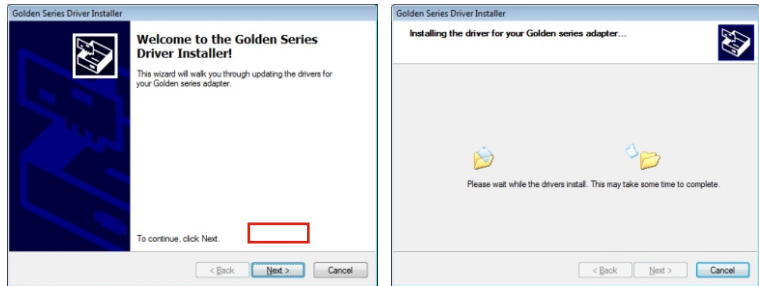
In order to ensure proper operation of your PCI Express Parallel board, the driver will be in the CD bound with your product. You can specify the location (folder) as below:

Operation System	Driver Location
Windows 2000 / XP / 2003 / Vista (32-bit)	:\\IO\\PCI IO\\2K & XP & 2003\\Vista_32bit\\
Windows XP / 2003/Vista (64-bit)	:\\IO\\PCI IO\\XP & 2003\\Vista_64 bit\\
Linux 2.4.x, 2.6.x	System Default Driver, LPT #2 or LPT #3
DOS	:\\IO\\PCI IO\\DOS\\PCIDOS.exe

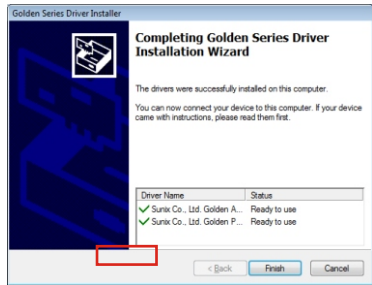
1. Please double click the **Setup.exe** file or specify the driver locate within folder of the attached driver CD.



2. When the welcome screen appears, click "**Next**".
3. System will search "**PCI Express 4018 Multi-IO Adapter**" driver



4. After installing driver successfully, please select "**Finish**" to complete the steps.



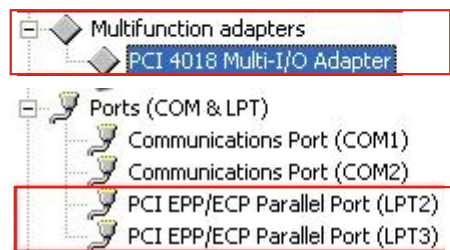
PCI Express IEEE1284 Parallel Communication Board

Hardware Verification

User can confirm the success of installation by checking the following message, which can be found in device manager.

Start > Controller Panel > System > Device Manager

Click on the “**Device Manager**” tab in System Properties, which you access from Windows Control Panel.



NOTE:

*There is only one Parallel (LPT2) port shows up, if you bought 1-port IEEE1284 Parallel PCI Card.

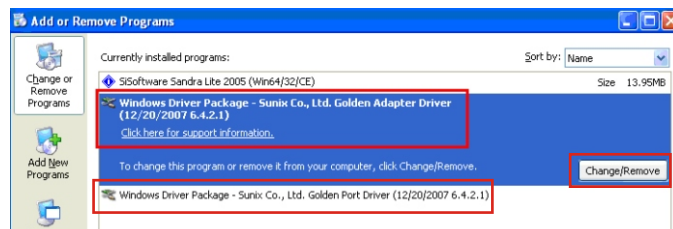
Driver Uninstallation

1. Access **Add / Remove Program** in control panel to remove adapter driver.

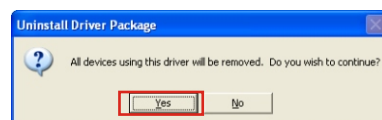
Start > Controller Panel > Add / Remove Program



2. Please select & remove Golden Adapter Driver and Port Driver one by one.



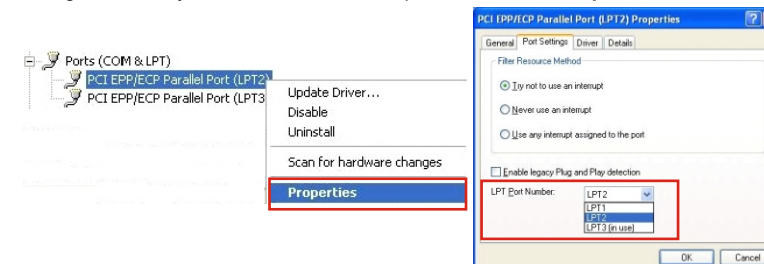
3. Then press “**Yes**” button to finish the uninstallation. After finish the process, user need to reboot the system to ensure the uninstallation.



LPT Port Settings.

How to Change LPT Port Number

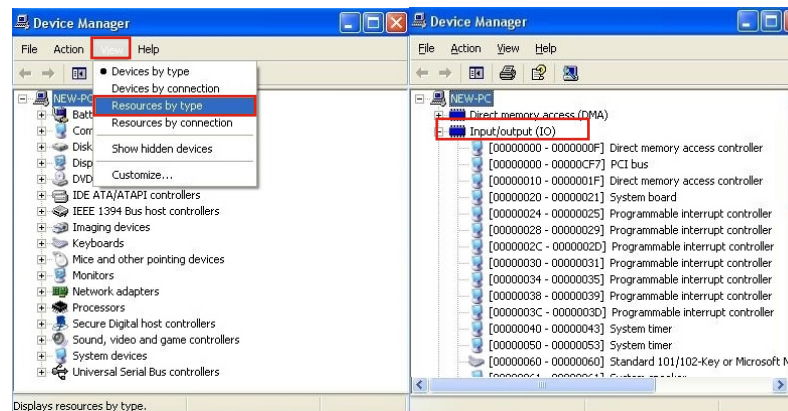
1. Please launch the “**Device Manager**” to verify hardware installation correctly.
2. Right click on your mouse on the LPT port and select “**Properties**”.



3. Select “**Port Settings**” tab page, and you can select LPT port number from LPT 1 to LPT 3. Please do NOT select the “in use” LPT port to prevent system conflict.

How to Confirm Parallel Card LPT Port System Resource

1. Please launch the “**Device Manager**” to verify hardware installation correctly.
2. Select the “**View**” and “**Resources by type**”.
3. Select the “**Input / Output (IO)**” scheme.



4. You can find “**PCI Multi-I/O Adapter resource allocation**” in the list.

5. For example the LPT port and I/O address lists as below. The real I/O address depends on your system, and it will be random in different system. I/O address will not change, if you does not change PCI card to any PCI slot.

Port	System Assigned I/O Address
Port 1 (LPT2)	[0000FEE0 - 0000FEE7] PCI Multi-I/O Adapter [0000FEE8 - 0000FEEF] PCI Multi-I/O Adapter
Port 2 (LPT3)	[0000FEF0 - 0000FEF7] PCI Multi-I/O Adapter [0000FEF8 - 0000FEFF] PCI Multi-I/O Adapter

Trouble Shootings.

1. How can I set the LPT port to the legacy 278 or 378 ISA address?

Because of PCI plug-n-play rule and windows operation system limitation, you can NOT remap to 278H or 378H legacy ISA IO address under Microsoft Windows 2000, XP, 2003 Vista, or Linux OS.

2. How come my parallel device can not work on this Card, but works properly under on-board LPT port?

- A. Please confirm your parallel device connect to the LPT port correctly.
- B. Make sure the LPT number you connected.
- C. Please try to connect another LPT port on the cable.
- D. Your parallel device only works under 278/378 legacy ISA IO address, this card can not satisfy with this feature.

3. How to add my parallel device (e.g. Printer) via this Card's LPT port?

- A. Be sure your parallel peripheral had connected to parallel card.
- B. Please check Control panel – Printers – Add Printer. The “Add Printer Wizard” will show up.
- C. Please install your printer driver, and select LPT2 or LPT3 PCI ECP/EPP port to your device. Please click “Next” and finish the add new printer step.



4. How can I set the different ECP / EPP / SPP / BPP operation mode?

Under Windows OS such as XP and Vista, PCIe parallel card will auto-communicate with the device to which it is connected and sets to that particular mode. For example if this card is connected to a printer that support SPP mode, then this parallel card will communicate with this printer and will automatically set to SPP mode. It means that this card will handshakes with the device to which it is connected and configures to that mode. User does not require changing to any particular mode. This parallel card can not force setting particular mode by driver or BIOS!!