

4 Port RS232 Mini PCI Express Serial Card 2S 1P Mini PCI Express Serial/Parallel Combo Card

MPEX4S552

MPEX2S1P552



*actual product may vary from photos

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FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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Introduction

The MPEX4S952 4 Port RS232 Mini PCI Express Serial Card with 16550 UART and the MPEX2S1P552 2S1P Mini PCI Express Serial Parallel Combo Card turns a mini-PCIe slot into either four RS232 (DB9) serial ports or two RS232 (DB9) serial ports and one IEEE 1284 parallel port - cost-saving solutions for adding legacy serial/parallel support for embedded systems that aren't normally compatible.

A native PCI Express single chip design allows you to take advantage of full PCI Express bus capability by providing improved speed and reliability while reducing the load applied to the CPU by as much as 48% over conventional "bridge chip" serial cards .

Packaging Contents

- 1 x Mini PCI Express Card
- 4 x DB9 to IDC Ribbon Cable (MPEX4S552 only)
- 2 x DB9 to IDC Ribbon Cable (MPEX2S1P552 only)
- 1 x DB25 to IDC Ribbon Cable (MPEX2S1P552 only)
- 1 x Driver CD
- 1 x Instruction Manual

System Requirements

- PCI Express enabled computer system with available Mini PCI Express slot (Mini Card)
- Microsoft® Windows® 2000/XP/Server 2003/Vista/Server 2008 R2/7 (32/64-bit), or Linux® kernel 2.6.x

Installation



WARNING! Computer parts can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds. Also be careful to handle the card by its edges and not the gold connectors.

Hardware Installation

1. Line up and insert the Mini PCI Express adapter card with the Mini PCI Express slot on the system board. Match up the gap in the card connector, with the notch in the slot.



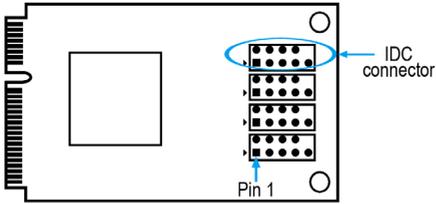
*installation photos for reference only

2. Fasten the top edge of the Mini Card to the motherboard.

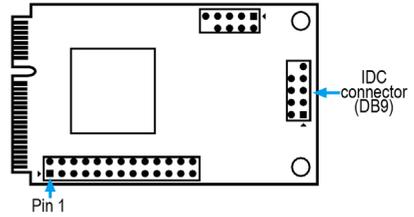


NOTE: Different systems may have different methods for installing mini cards, so please refer to documentation for your system/board for full installation instructions for your particular application.

- Attach the ribbon cables to the IDC connectors on the Mini Card. Match up Pin1 on the Mini Card (indicated with an arrow) with Pin1 on the ribbon cable (red wire).



MPEX4S552



MPEX2S1P552

- Mount the D-Sub connectors to the desired locations such as the computer chassis or external panel, etc.

Driver Installation

Windows 2000/XP/Server 2003

- When the Found New Hardware wizard appears on the screen, insert the Driver CD into your CD/DVD drive. If you are prompted to connect to Windows Update, please select the "No, not this time" option and click Next.
- Select the option "Install Drivers Automatically (Recommended)" and then click the Next button.
- Windows should now start searching for the drivers and being the installation automatically. Once this has completed, click the Finish button.

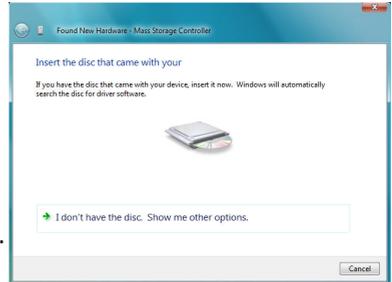
NOTE: If automatic installation fails, you may need to point the driver installation wizard to the driver location on the CD, manually:

"IO \ MOSCHIP \ MCS99xx"



Windows Vista/7

1. When the Found New Hardware window appears on the screen, click on the “Locate and install driver software (recommended)” option. If prompted to search online, select the “Don’t search online” option.
2. When prompted to insert the disc, insert the Driver CD that came with the card, into your CD/DVD drive and Windows will automatically proceed to search the CD.
3. If a Windows Security dialog window appears, click the “Install this driver software anyway” option to proceed.
4. Once the driver is installed, click the Close button.

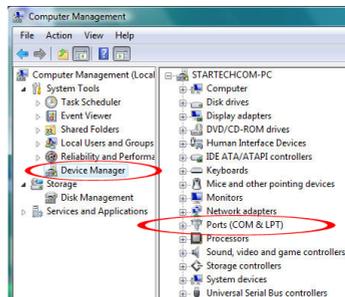
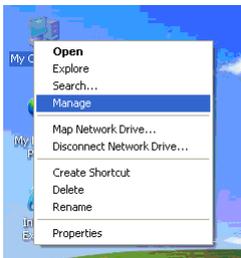


NOTE: If automatic installation fails, you may need to point the driver installation wizard to the driver location on the CD, manually: “IO \ MOSCHIP \ MCS99xx”

Verifying Installation

Windows 2000/XP/Server 2003/Vista/Server 2008 R2/7

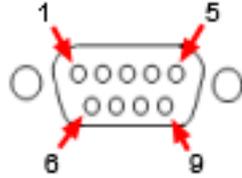
From the main desktop, right-click on “My Computer” (“Computer” in Vista/7), then select Manage. In the new Computer Management window, select Device Manager from the left window panel.



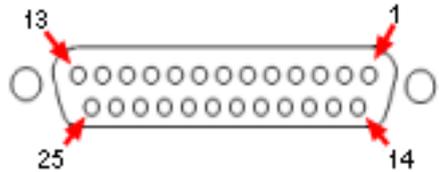
Double-click on the “Ports (COM & LPT)” option. Additional COM ports should be listed.

Pinout

Pin	Signal
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI



Pin	Signal	Pin	Signal
1	STB-	14	AFD-
2	PD0	15	ERR-
3	PD1	16	INIT-
4	PD2	17	SLIN-
5	PD3	18	GND
6	PD4	19	GND
7	PD5	20	GND
8	PD6	21	GND
9	PD7	22	GND
10	ACK-	23	GND
11	BUSY	24	GND
12	PE	25	GND
13	SLCT		



Specifications

	MPEX4S552	MPEX2S1P552
Number of Ports	Serial: 4	Serial: 2 Parallel: 1
Host Interface	PCI Express revision 1.1	
Form Factor	Full Length Mini Card	
Chipset ID	MosChip MCS9904CV-AA	MosChip MCS9901CV-CC
External Connectors	4 x DB9 male	2 x DB9 male 1 x DB25 female
Supported Standards	RS232	RS232, EPP, ECP, SPP, Byte, Nibble
Maximum Data Transfer Rate	Serial: 921.6 Kbps	Serial: 921.6 Kbps Parallel: 1.5 Mbps
Data Bits	5, 6, 7, 8	
Parity	None, Odd, Even, Space, Mark	
Stop Bits	1, 1.5, 2	
Buffer Size	256 byte FIFO	
Operating Temperature	0°C ~ 55°C (32°F ~ 131°F)	
Storage Temperature	-20°C ~ 85°C (-4°F ~ 185°F)	
Humidity	5% ~ 95% RH	
Dimensions (LxWxH)	50.95mm x 30.0mm x 10.0mm	50.0mm x 30.0mm x 10.0mm
Weight	150g	
Compatible Operating Systems	Windows 2000/XP/Server 2003/Vista/ Server 2008 R2/7 (32/64-bit), Linux kernel 2.6.x	

Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit www.startech.com/downloads

Warranty Information

This product is backed by a lifetime warranty.

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