User Manual

INTRODUCTION

This ExpressCard I/O adapter is a series of high performance Serial / Parallel controller adapter for notebook PC with 54mm or 34mm ExpressCard slot. The interface between the adapter and the notebook PC employs the advanced and reliable PCI-Express x1 standard with maximum data transfer rate of 2.5Gbps. This series of adapters offer different combinations of Serial and Parallel ports which are compliant with 16C450/16C550 UART and IEEE1284 industrial standard respectively. This series of adapters are ideal for varies industrial applications such as POS machines, external modems, barcode readers, printers, hardware protection key, etc.

FEATURES AND SPECIFICATION

General
- Complies with PCI-Express Specification Rev 1.0a with data transfer rate up to 2.5Gbps
- Complies to ExpressCard/34 standard running on PCI-e interface
- Supports Plug & Play and Hot Plug feature
- Supports DOS, Windows 2000, XP 32/64-bit, Server 2003 32/64-bit, Vista 32/64-bit, Server 2008 32/64-bit, Linux, and Mac OS

Serial Port (RS232) Interface
- PCI-e based true serial port
- Compatible with industrial standard 16C450/16C550 UART
- On chip 256-byte FIFO in transmit and receive path of each port
- Data transfer rate up to 250Kbps on each port (Special version can support up to 1Mbps)
- Supports hardware and software flow control
- Supports 5-, 6-, 7-, 8-bit serial format
- Supports even, odd, none, space and mark parity
- Supports 1 or 2 Stop bit operation

Parallel Port Interface
- PCI-e based true parallel port
- IEEE1284 compatible parallel port
- Supports SPP, PS2, EPP & ECP mode
- Fast data rates up to 1.5MBps

HARDWARE INSTALLATION

1. Make sure your notebook PC has been properly installed with an operating system supported by this product.
2. Insert the adapter into the ExpressCard slot on your notebook PC. Since this adapter can support Hot Plug feature, the adapter can be inserted into the ExpressCard slot while the notebook PC is running.
3. The operating system should detect the adapter and ask for the software driver. Read the next section on software driver installation.
4. Connect your parallel or serial devices directly to the adapter or through a fan-out cable which is included with some models.

DRIVER INSTALLATION

Installing Driver for Windows Vista and Windows Server 2008:

1. Before starting Vista 64-bit or Server 2008 64-bit operating system, press F8 to select **"Disable Driver Signature Enforcement"**. You should always select this option when you use this

adapter on Vista 64-bit or Server 2008 64-bit operating system. Skip this Step, if you are installing Vista 32-bit, Server 2008 32-bit or WHQL driver.

2. Once Vista or Server 2008 is up and running, inserts the driver CD into the CD-ROM drive.

3. Vista will automatically detect the adapter. Select **"Locate and install driver software (recommended)"** and click **Continue**. Then select **"I don't have the disc. Show me other options"**.

4. Click on: **Browse my computer for driver software (advanced)**, and then browse to the following folder on the Driver CD. (Assuming the driver installing is Windows Vista or Server 2008 32-bit and the CD-ROM drive is drive D:)

| For Windows Vista: | **D:\Moschip\MCS9901\Vista** |
| For Windows Server 2008: | **D:\Moschip\MCS9901\Server_2008** |

5. Click the **Next** button to continue.

6. Follow the on-screen instruction until the driver is installed completely.

7. Select **"Install this driver software anyway"** when Vista or Server 2008 prompt the following:

   Windows can't verify the publisher of this driver software.

8. Finally click **Close** when all the drivers have been installed.

Installing Driver for Windows 2000, Server 2003, and XP:

1. Start Windows and insert the driver CD into the CD-ROM drive.

2. Windows will automatically detect the adapter. Select **"No, not this time"** and click the **Next** button to continue.

3. Select **"Install from a list or specific location (Advanced)"** and click on the Next button.

4. Check only **"Include this location in the search"**. Make sure not to check **"Search removable media"**. Then, click the **Browse** button select the location for the drivers. (Assuming the driver installing is Windows XP 32-bit and the CD-ROM drive is drive D:)

   D:\Moschip\MCS9901\Win2K_XP_2003Server

5. Click the **OK** button to confirm and then click **Next** button to continue.

6. If the wizard asks for Windows Logo testing to verify compatibility, click **Continue** Anyway.

7. Click the **Finish** button to finish installing driver.

8. Once driver installation is completed, you can now connect your external devices to the adapter. To install the driver for the external devices, please refer to the external device user's manuals.

Installing Driver for Linux, Mac OS, and DOS:

Please refer to the installation documents on the driver CD for installing these operating systems. To obtain the latest drivers, please refer to the Updating Drivers section below.

Updating Drivers:

The latest drivers and last-minute change to this document are available on this website:

http://www.drivers-download.com

Search for the following Download Code from "Drivers Search":

Chipset.	Description	Download Code
MCS9901	Serial ExpressCard (1S/2S/4S/6S)	DL-0234805
	Parallel ExpressCard (1P)	DL-0234806
	Multi-function ExpressCard (2S1P/4S1P)	DL-0234807

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