

# User Manual

## INTRODUCTION

This PCI multi-I/O card uses the latest PCI based Peripheral controller chipset from MosChip, enabling this card to be installed on any PCI capable PC system. Most of the latest motherboards no longer come with serial or parallel port. By using this card, end user can add serial and parallel ports to their PC system, allowing them to connect their serial and parallel devices. This product offers superior performance and unmatched data transfer rates. It is also ideal for industrial automation applications.

## FEATURES AND SPECIFICATIONS

### General

- Easy installation, automatically selects IRQ and I/O address
- Supports 32-bit PCI Local Bus Specification Revision 2.1
- Supports PCI power management
- Supports PCI IRQ sharing feature, saves valuable resources for other add-on cards
- Supports multiple cards on one PC
- Supports Windows 98SE, ME, NT, 2000, XP 32-/64-bit, Vista 32-/64-bit, Linux and DOS operating system

### Serial Port (RS-232) Interface

- Compatible with industrial standard 16C550 UART
- On-chip 16-byte depth FIFO in Transmit & Receive paths of each port
- Fast data rate up to 115.2K bits/sec on each port
- Supports Modem Control Signals
- Supports 5-, 6-, 7-, 8- bit serial format
- Supports Even, Odd, No Parity, or Force Parity

### Parallel Port Interface

- IEEE1284 compatible parallel port
- Supports SPP, PS2, EPP and ECP mode
- Fast data rate up to 1.5M Bytes/sec
- On-chip 16-byte FIFO

## HARDWARE INSTALLATION

1. Turn off your computer and all devices connected to it.
2. Remove the computer's cover. Refer to your computer user's manual for more details.
3. Locate an unused PCI slot and remove the metal bracket. Save the bracket screw for later use.
4. Align the card horizontally with respect to the PCI slot and insert it into the slot firmly and evenly. Take care not to force it into the slot. Once you have properly positioned the card into the slot, secure the card with the bracket screw you have saved.
5. Replace the computer's cover.
6. Turn your computer on. You are now ready to install the driver!

### Driver Locations

All the drivers for the following PCI I/O cards can be located on the Driver CD under these folders path:

- |                                 |                    |
|---------------------------------|--------------------|
| 1. MCS9805 or NM9805 (1P)       | : \NETMOS\NM9805\  |
| 2. MCS9815 or NM9815 (2P)       | : \NETMOS\NM9815\  |
| 3. MCS9820 or NM9820 (1S)       | : \NETMOS\NM9835S\ |
| 4. MCS9835 or NM9835 (1S or 2S) | : \NETMOS\NM9835S\ |
| 5. MCS9835 or NM9835 (2S1P)     | : \NETMOS\NM9835M\ |
| 6. MCS9845 or NM9845 (4S or 6S) | : \NETMOS\NM9845S\ |

Note: MosChip Semiconductor Technology acquired NetMOS Technology Inc. in 2001 and the chipset part numbers were revised from NM98xx to MCS98xx but the drivers remain the same.

## DRIVER INSTALLATION

### Installing Driver for Windows Vista 64-bit:

1. During system start up, press F8 to select "**Disable Driver Signature Enforcement**". You should always select this option when you use non-WHQL driver.
2. Start Windows Vista.
3. Vista will automatically detect the PCI I/O card. Please choose "**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 the CD and choose the locations.

D:\NetMos\NM98xxx\Vista\_64bit\

- (Please refer to the *Driver Locations* section of this manual for the correct driver folder path for your PCI I/O card).
5. After that, click the **Next** to continue.
  6. It will display the message of "**Windows can't verify the publisher of this driver software**". Please choose "**Install this driver software anyway**" to finish the installation.
  7. If another new hardware found screen comes up, then just repeat step 3-6 to install all driver until finish.

### Installing Driver for Windows Vista 32-bit:

1. Start Windows Vista.
2. Vista will automatically detect the PCI I/O card. Please choose "**Locate and install driver software (recommended)**" and click **Continue**, then select "**I don't have the disc. Show me other options**".
3. Click on "**Browse my computer for driver software (advanced)**", and then browse the CD and choose the locations.

D:\NetMos\NM98xxx\Vista\_32bit\

- (Please refer to the *Driver Locations* section of this manual for the correct driver folder path for your PCI I/O card).
4. After that, click the **Next** to continue.
  5. It will display the message of "**Windows can't verify the publisher of this driver software**". Please choose "**Install this driver software anyway**" to finish the installation.
  6. If another new hardware found screen comes up, then just repeat step 2-5 to install all driver until finish.

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

1. Start Windows.
2. Windows will automatically detect the PCI I/O card. Please choose "**Install from a list or specific location (Advanced)**" and click on the **Next**.
3. Please choose "**Search for best driver in these locations**" and select "**Include this location in the search**", and then click on the **Browse** to browse the CD and choose the locations.

D:\NetMOS\NM98xxx\Win2K\_XP\_2003Server

- (Please refer to the *Driver Locations* section of this manual for the correct driver folder path for your PCI I/O card).
4. After that, click **Next** to install the driver. **Notice: Do not select on "Search removable media"**.
  5. It will display the message of "**Completing the Found New Hardware Wizard**". Click on **Finish** to finish the installation.
  6. If another new hardware found screen comes up, then just repeat step 2-5 to install all driver until finish.

### Installing Driver for Windows NT, ME, 98SE, Linux & DOS:

Please refer to installation document on the CD for installing these operating systems.

### Updating Drivers:

All the latest drivers are available for download at this website: <http://www.moschip.com>

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