

LINDY®

COMPUTER CONNECTION TECHNOLOGY

PCI 32Bit 8 Port Serial Card (16C950 128FIFO)

User Manual

English



LINDY No. 51275

www.lindy.com



1. Introduction

This PCI Host Adapter is a PCI controller board which can upgrade your desktop computer to have Multiple RS232 (UART) ports.

The board supports a 32-bit 33 MHz PCI bus revision 3.0, RS232 transfer rate of 920 Kbps.

It comes with drivers for Windows.

1.1. Features

1.1.1. PCI Interface

- Compliant with PCI Specification, revision 3.0 and PCI Power Management Specification 1.1
- 32 bit/33MHz fully compliant PCI host interface
- 3.3V Operation

1.1.2. RS232 (UART) Serial Port

- Multiple 16C950 High performance RS232 UART DB9 channels
- Superset and backward compatible to 16C550, 16C650, 16C750 and 16C850
- 128-byte deep FIFO per transmitter and receiver
- Supports data transfer rate up to 920 Kbps
- 128 Rx interrupt thresholds
- 128 Tx interrupt thresholds
- 128 flow control thresholds
- Supports 64bit/32bit Windows

1.2. Package Contents

- RS232 PCI Host
- This User's Manual
- LINDY Driver CD
- Fan-Out Cable (for 4Ports and 8Ports card only)

2. Software Installation

After driver installation, please setup the correct Data Rate by 14.745MHz frequency or by automatic frequency detection for proper operation.

3.1. Windows 2000/XP/Vista & Windows 7 installation

1. Power off the system. Insert PCI Card into an available PCI slot.
2. Power up the system, and insert the Driver CD into your CD-ROM/DVD.
3. Windows will display the Found New Hardware Wizard, Click "**Next**".
4. Select "**Search for a suitable driver for my device (Recommended)**" and Click "**Next**", and make sure the Driver CD in your CD-ROM/DVD.
5. Under "**Specify a locations**" insure that is only checked, and click "**Next**".
6. Type in X:\ (If your CD-ROM/DVD is X:\) and click "**Browse**".
7. Points specify a location, example X:\51725 \Uart for 32bit OS, and click "**OK**".
8. When the wizard indicates that it found a driver for the device click "**Next**". Then click "**Finish**".
9. Repeat Step 3 – Step 8.

3.2.Frequency Setting & Installation Verifying under Windows 2000/XP/Vista & Windows 7

Follow the instructions in this section to verify that the controller was installed correctly.

1. Right click on "**My Computer**" icon, select "**Properties**", left click on "**Hardware**" tab, and then on "**Device Manager**" button.

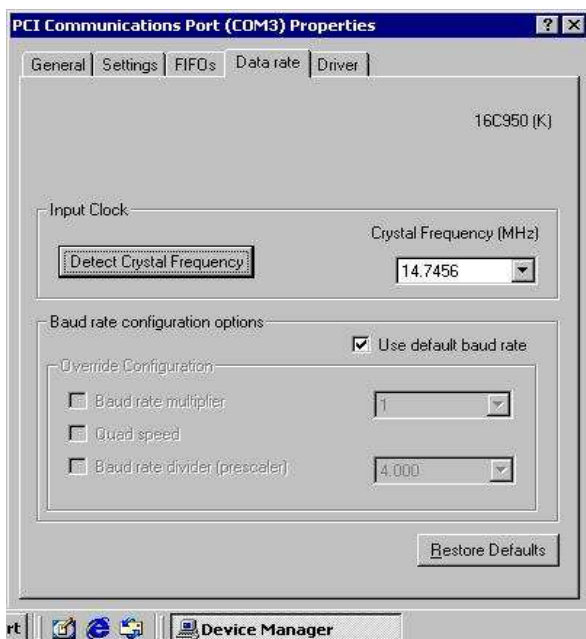
2. Double click “ **Multifunction adapters** ”, If there is no yellow “!” or “?” in front of
OX16PCI954 PCI UARTs (unique bars)
OX16PCI95x PCI bridge

The driver has started correctly.

3. Double click another “**Ports**”, If there is no yellow “!” or “?” in front of
PCI Communications Port (COM3)
PCI Communications Port (COM4)
PCI Communications Port (COM5)
PCI Communications Port (COM6)

The driver has started correctly.

4. To view information about the devices attached to the controller, right click the “**PCI Communications Port (COM3)**” and select Properties from the context menu.
5. Select the tab labeled “**Data rate** “. Select “ **Crystal Frequency** ” at **14.745MHz** or
Select “ **Detect Crystal Frequency** ” for automatically selected for **Input Clock**.
6. Select “**Use default baud rate**” on “**Baud rate configuration options**”.
7. Repeat Step 4 - 6 for the setting of **COM4, COM5** and **COM6**.



3.3. Windows 9X / ME installation

1. Power off the system. Insert PCI Card into an available PCI slot. Power up the system.
2. The Hardware wizard will display that it found New Hardware Wizard, Select “**Specify the location of the driver (Advanced)**”, and insert the “**Driver CD**” in your CD-ROM/DVD drive, and click “**Next**”.

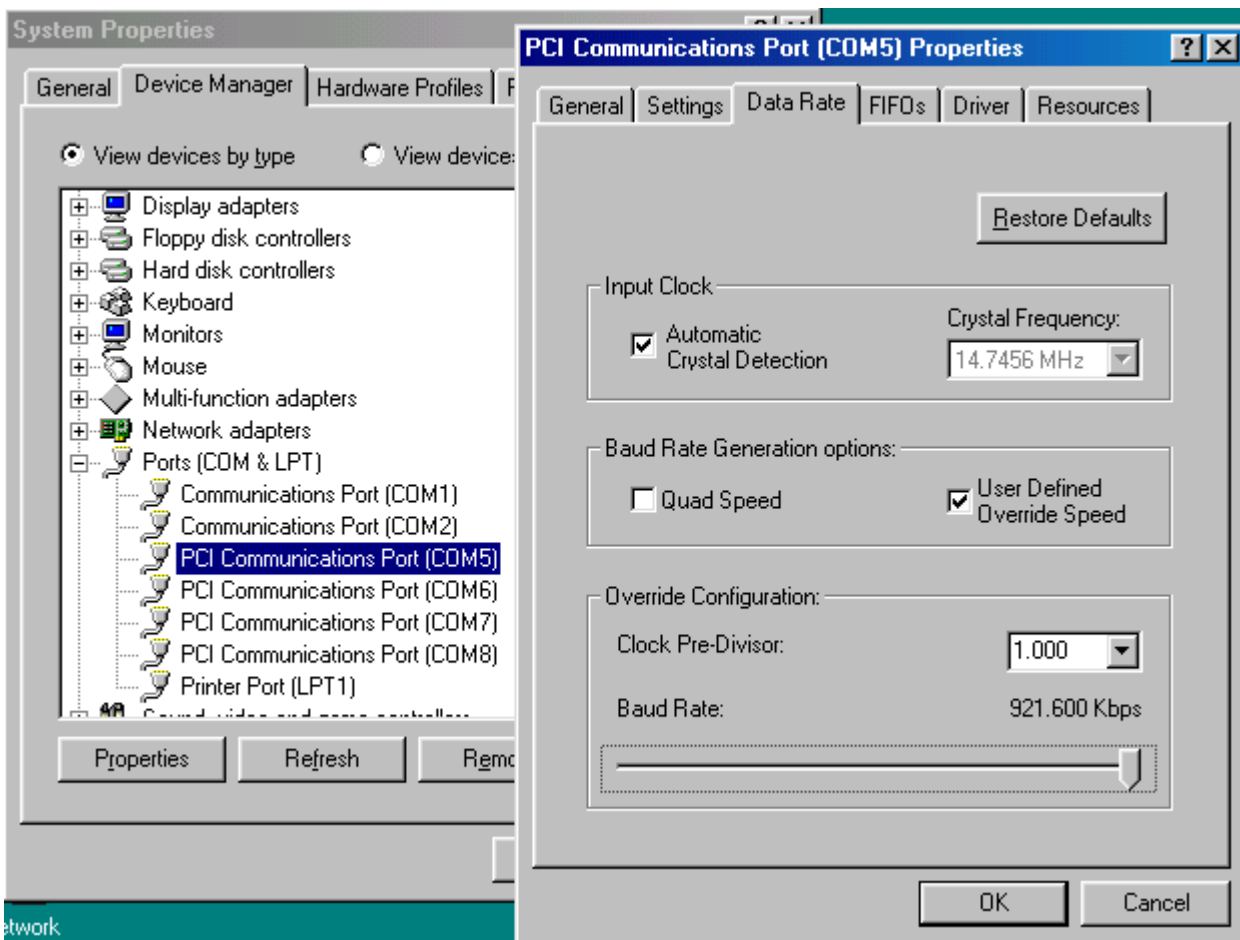
3. Make sure “**Search for the best driver for your device (Recommended)**”, and “**Specify a location** are both selected, uncheck the other boxes, and type in X:\ (If your CD-ROM/DVD is X:\) and click “**Browse**”.
4. Points specify a location, example **X:\PCI IO Host \OXmPCI Win_Driver_v6.5.1.5\Windows_95-98-ME**. Click “**OK**”, and click “**Next**”. (If your CD-ROM/DVD drive is E:)
5. When the wizard indicates that it found a driver for the device, click “**Next**”. Then click “**Finish**” to exit the wizard.
6. Repeat Step 2 – Step 5.
7. When driver install Finish please remove the Driver CD and click “**YES**” to restart your computer.

3.4. Frequency Setting & Installation Verifying under Windows 9X and ME

Follow the instructions in this section to verify that the controller was installed correctly.

1. Right click on “**My Computer**” icon, select “**Properties**”, left click on “**Device Manager**” tab.
2. Double click “ **Multifunction adapters** ”, If there is no yellow “!” or “?” in front of
OX16PCI954 PCI UARTs (unique bars)
OX16PCI95x PCI bridge
 The driver has started correctly.
3. Double click another “**Ports**”, If there is no yellow “!” or “?” in front of
PCI Communications Port (COM3)
PCI Communications Port (COM4)
PCI Communications Port (COM5)
PCI Communications Port (COM6)
 The driver has started correctly.
4. To view information about the devices attached to the controller, right click the “**PCI Communications Port (COM3)**” and select Properties from the context menu.
5. Select the tab labeled “**Data Rate** ”. Select “ **Crystal Frequency** ” at **14.7456MHz** or Select “ **Automatic Crystal Detection**” for automatically selected for **Input Clock**.
6. Select “**User Defined Override Speed**” on “**Baud Rate Generation options**”.
7. Drag the speed bar to correct baud rate.

8. Repeat Step 4-7 for the setting of **COM4, COM5** and **COM6**.



3.5. Windows NT4.0 installation

1. Power up the system, and insert the Driver CD into your CD-ROM/DVD.
2. Browse the Driver CD, and points specify a location, example **X:\PCI IO Host \OxmPCI Win_Driver_v6.5.1.5\Windows_NT4.0**.
3. Double click on the "Install_Serial" icon.
4. The wizard will display " Windows NT4 Device Installer ", and click " Next".
5. The wizard will display " OxSer.INF ", Select " INSTALL ", and click " Next", "YES".
9. When the wizard display " The operation was completed successfully, and the driver has been started. ", Click "Exit".

3.6. Frequency Setting & Installation Verifying under Windows

NT4.0

Follow the instructions in this section to verify that the controller was installed correctly.

1. Right click on "**Start**" icon, select " **Settings** ", " **Control Panel** ".
2. Double click on " **Ports** " and select **COM** Port, example "COM3".

The driver has started correctly.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operations.