

# PCIe I/O Host Adapter

## 1. Introduction

*Add Multiple Ports RS232 with DB9M 5V DC bus power output and 128 byte deep FIFO at Low Profile PCIe or Mini PCIe x1 card to your System*

### 1.1. Features

#### 1.1.1. PCIe Interface

- Compliant with PCI Express Specification, revision 1.0a
- 1-lane 2.5Gbps PCI Express host interface
- Fully RoHS compliant

#### 1.1.2. RS232 (UART) Serial Port

- Multiple 16C950 High performance UART DB9M channels
- 128-byte deep FIFO per transmitter and receiver
- Superset and backward compatible to 16C550, 16C650, 16C750 and 16C850
- 5VDC Bus Power on each DB9M Port for POS device use
- Jumper to select 12VDC Power output on DB9M Port (Option for Mini PCIe card only)
- Individual Jumper to select RI/DC-Power in each DB9M Port
- 128 Rx interrupt thresholds
- 128 Tx interrupt thresholds
- Supports 64bit / 32bit Windows
- Chipset: Oxford

### 1.2. Package Contents

- RS232 Host Adapter
- Driver CD
- RJ45-DB9M cable (for PCIe 2Ports card option) or DB9M 4Ports Fan-Out Cable (for 4Ports card option) or 10Pin PinHeader-DB9M cables (for Mini PCIe card option)

## 2. Hardware Installation

### 2.1. 5V or 12V DC Power Selection (J3 on Mini PCIe card only)

Select DC5V or DC12V connected to Pin9 of DB9M Connector.

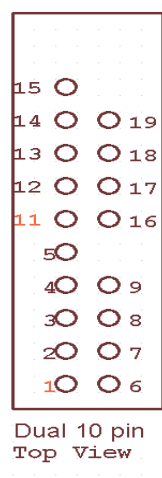
### 2.2. DC Bus Power or RI Selection

Select DB9M Pin9 as DC Bus power (Vcc Shorted) or RI function (RI Shorted).

### 2.3. 10Pin RJ45 to DB9M Pin Out (PCIe 2Ports card)

	10Pin RJ45	8Pin RJ45	RS232 DB9M
5V	1	X	X
DCD	2	1	1
DSR	3	2	6
RXD	4	3	2
RTS	5	4	7
TXD	6	5	3
CTS	7	6	8
DTR	8	7	4
GND	9	8	5
RI	10	X	9

## 2.4 Dual 10Pin Pin Header to DB9M Pin Out (Mini PCIe card)



Signals of Dual 10Pin Pin Header	
Pin #	Signals
Pin 1, 11	DCD
Pin 2, 12	RXD
Pin 3, 13	TXD
Pin 4, 14	DTR
Pin 5, 15	GND
Pin 6, 16	DSR
Pin 7, 17	RTS
Pin 8, 18	CTS
Pin 9, 19	RI
Pin 10, 20	Key

## 3. Software Installation

### 3.1. Windows Driver Installation

1. Power off the system. Insert PCIe or Mini PCIe Card into an available 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 E:\ (If your CD-ROM/DVD is E:\) and click **“Browse”**.
7. Points specify a location, example **E:\ PCIe IO\OXPCIe\x86 (or \amd64 for 64bit Windows)**, 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. Driver Installation Verifying under Windows

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 **PCI Express Multiport Serial Adapter**. The driver has started correctly.
3. Double click another **“Ports”**, If there is no yellow **“!”** or **“?”** in front of **PCI Express UART Port (COM3~6)**. The driver has started correctly.