

## ***Features***

- Full-Mini (F1) Card type slot size;
- PCI-E Mini Card electrical specification Revision 1.2;
- RS485 signals: DATA+ (B), DATA- (A), GND
- RS422 signal: T/R+, T/R-, RXD+, RXD-, GND
- 600W surge protection, 15 KV ESD protection for all serial ports
- Working mode: asynchronous working, point-to-point or point-to-multipoint 2 wires (half duplex) 4 wires (full duplex)
- Transmission distance: RS-485/422 port:1.2km (300bps-921600bps)
- Sleep mode with wake-up Indicator
- Transmission media: twisted-pair cable or shielded cable
- Interface protection:600W surge protection, 15 kV ESD protection for all serial ports;
- Direction control: Adopt the technology which automatically controls the data-flow direction, automatically distinguish and control the data-transmission direction;
- UART interface support for 7 or 8 data bits,1 or 2 stop bits and even/odd/mark/space/none
- Flow control none,hardware and xon/xoff
- Load capability; Support point-to-multipoint transmission. Each converter can connect 32 RS-422 or RS-485 interface equipment
- Extended operating temperature range; -40 to 85°C

## ***Applications***

- Next generation Point-of-Sale Systems

- Remote Access Servers
- Storage Network Management
- Factory Automation and Process Control

## System Requirements

- Windows® Server 2003, 2008, 2012
- Windows® XP, Vista, 7, 8
- Linux 2.6.27, 2.6.31, 2.6.32, 3.x.x and newer
- A available mini PCI Express slot

## Driver Locations

All the drivers for the Following mini PCI Express cards are located in these directories of the Driver CD

### Installing Windows driver for the controller card

1. Once Windows is running, a new controller card is detected.
2. Insert the **Drivers & Utility** CD into the CDROM, assume drive D
3. When Windows ask for the driver for the new controller card, browse to the following folder  
**D: \XR17V35X\XR17V352...(2S)**  
**D: \XR17V35X\XR17V354...(4S)**  
**D: \XR17V35X\XR17V358...(8S)**
4. Press **OK** to confirm.
5. Press **Next** to continue with the installation.
6. Follow the on-screen instructions until driver installation is completed.

## Checking the status of the installed driver

1. Right click on the icon of **My Computer** and choose **Properties**
2. Choose Device Manager
3. Left click on the "+" sign of the **Multifunction adapters**
4. The device ID of the chipset should be shown
5. Left click on the "+" sign of the **Ports (COM & LPT)**
6. The corresponding number of Serial ports available should be shown
7. Right click on the device above and choose **Properties** on both cases
8. Check the Device status in the **General** window. The following should be shown:  
**This device is working properly**

### Verify Installation

You can use Windows "**Device Manager**" to verify proper installation

- (1). Click on the "**Programs and Features**" tab in the Windows Control Panel Start > Controller Panel > Device Manager
- (2). In the Device Manager window, you should see this board under Multi-port serial adapters (Exar's 4-port UART PCI-Express Card in this example). You should also see Exar's Communications sport under Ports (COM & LPT)



Multi-port serial adapters



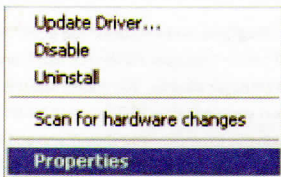
Exar's 4-Port UART PCI-Express Card



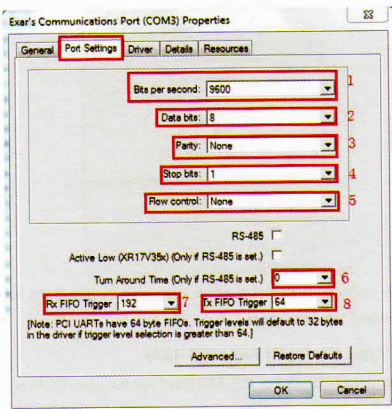
## Configure Serial Port Settings

After the board and serial port drivers are installed, please refer to following instructions to configure Serial COM settings.

- (1). Please launch the **“Device Manager”**.
- (2). Right click the **“Exar's Communications sport”** item from the **“Ports (COM & LPT)”** sub-tree and click **“Properties”**.



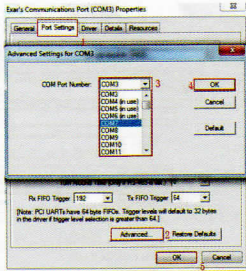
- (3). On the **“Port Settings”** tab, select configure.



- (4). Click **“OK”** to approve the settings for the selected port

## COM Port Number Settings

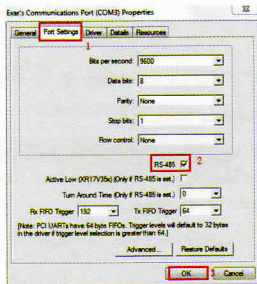
Under Port Settings, click the **“Advanced Settings”**, select a COM number to assign to the serial port. Click **“OK”** to approve the settings for the selected port.



**Note:** In order to prevent system resource conflict, do not select "in use" port.

### UART Type (Default: Auto RS-422)

User can select RS-422 or RS-485 interface for each COM port of this board



## Signal

