IBD183 USER GUIDE (Version: 1.0) EXAR XR21V1412 Mini PCI-E Serial Ports Adaptor Card

Connectors Pin Definition

CN1: COM1 for RS422/485 interface

Matching connector: Molex P/N 51021-0500

Pin #	Signal Name
1	ТХ
2	TX_N
3	RX
4	RX_N
5	GND, ground

CN2: COM2 Serial Ports

Matching connector: Molex P/N 51021-0900

Pin #	Signal Name
1	DCD, Data carrier detect
2	RXD, Receive data
3	CTS, Clear to send
4	GND, ground
5	TXD, Transmit data
6	RTS, Request to send
7	DSR, Data set ready
8	DTR, Data terminal ready
9	RI, Ring indicator

Switch Settings:

	SW1			
	1	2	3	4
RS-422	off	off	on	on
RS-485	on	on	on	on

	SW2			
	1	2	3	4
RS-422	off	on	off	on
RS-485	on	off	on	off

IBD183 Mechanical Drawing



Cable Mechanical Drawing





Mini PCI-E Serial Ports Driver Installation

1. In the Windows OS, go to the Computer Management (Device Manager) screen. In the 'Other devices' as shown, right click "USB Device".

🖴 Device Manager		\mathbf{X}
File Action View Help		
E 🚇 123-AA5387F9981		
🕀 🧕 Computer		
🛨 🛶 Disk drives		
😥 😼 Display adapters		
🕣 🥝 DVD/CD-ROM drives		
🖅 🖾 Human Interface Devices		
🗉 📹 IDE ATA/ATAPI controllers		
표 🦢 Keyboards		
• Description of the pointing devices • Description of the point o		
🕀 😼 Monitors		
Betwork adapters		
🔁 🍄 Other devices		
- 👰 USB Device		
ြွကြို့ USB Device		
🗉 🖉 Ports (COM & LPT)		
E 🕷 Processors		
🗈 🧟 Sound, video and game controllers		
🗉 😼 System devices		
🗄 😋 Universal Serial Bus controllers		

2. In the PCI Serial Port Properties screen, click Reinstall Driver.

3. In the Hardware Update Wizard screen, select "No, not this time" and click *Next* to continue.

4. Select "Install from a list or specific location (Advanced), and click *Next* to continue.

5. Choose "search" and "installation" options, click the checkbox of "Include this location in the search", and click *Browse* to find the driver's path in the CD provided or enter the path directly - \SCSI\IBD183\Windows XP\x86

lardware Update Wizard
Please choose your search and installation options.
● Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
D:\SCSI\IBD183\WindowsXP\x86 Source Browse
O Don't search. I will choose the driver to install
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
Cancel

6. Click Finish to close the wizard.

Hardware Update Wizard	
	Completing the Hardware Update Wizard The wizard has finished installing the software for: XR21V1412 USB UART Ch B
	Click Finish to close the wizard.
	< Back Finish Cancel

7. There are four serial ports. Therefore, the Hardware Update Wizard procedure will be repeated for the other serial port.