PCIE-1620
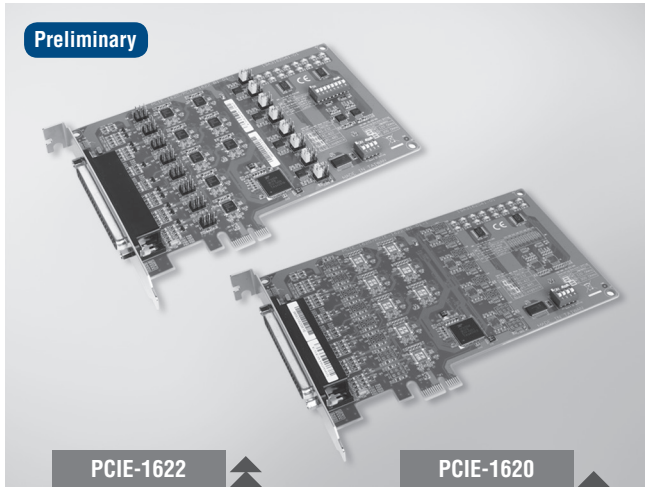
8-port RS-232 PCI Express Communication Card

PCIE-1622

8-port RS-232/422/485 PCI Express Communication Card

Preliminary

PCIE-1622   PCIE-1620

Features

- PCI Express bus 2.0 compliant
- Speeds up to 921.6 kbps for extremely fast data transmission
- Supports any baud rate setting
- 8 x RS-232 or RS-232/422/485 ports
- XR17V358 UART with 256-byte FIFOs

Introduction

PCIE-1620 is an 8-port RS-232, and PCIE-1622 is an 8-port RS-232/422/485 PCI Express communication cards that are compatible with the PCI Express x1 specification. The cards provide eight EFT protected ports up to 1,000 V, and have many functions such as high transmission speed of 921.6 kbps; The cards utilize high-performance XR17V358 UARTs with 256-byte FIFOs to reduce CPU load. Thus, the PCIE-1620 and PCIE-1622 are especially suitable for making reliable systems in multitasking environments.

Specifications

General

- **Bus Type**   PCI Express bus 2.0 compliant
- **Bus Interface**   PCI Express x1
- **Certification**   CE, FCC class A
- **Connectors**   1x Female DB62 (PCIE-1620A/22A/22B)
                         1x Female DB78 (PCIE-1622C)
- **Dimensions (L x W)** 168 x 111 mm (6.6" x 4.4")
- **Power Consumption** 260 mA @ +3.3 V (typ.)

Communications

- **Comm. Controller**   XR17V358
- **Data Bits**   5, 6, 7, 8
- **Data Signals**   RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD(PCIE-1620A/22A/22B) TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI (PCIE-1622C)
                         RS-422: Tx+, Tx-, Rx+, Rx- (PCIE-1620A/22A/22B) CTS+, CTS-, RTS+, RTS-, Tx+, Tx-, Rx+, Rx- (PCIE-1622C)
                         RS-485: Data+, Data- (PCIE-1622)
- **FIFO**   256 bytes
- **Flow Control**   DTR/DSR, RTS/CTS, Xon/Xoff
- **Parity**   None, Odd, Even, Mark, or Space
- **Speed**   50 bps ~ 921.6 kbps
- **Stop Bits**   1, 1.5, 2

Software

- **Bundled Software**   ICOM Tools
- **OS Support**   Windows Xp, win7, win8, win8.1, win10, server 2008, server2012
                         Linux 2.6.x, 3.x.x
                         Qnx 6.3, 6.5
                         Vxworks 6.9

Environment

- **Operating Humidity**   5 ~ 95 % RH, non-condensing
- **Operating Temperature** 0 ~ 70°C (32 ~ 158°F)
- **Storage Temperature**   -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **PCIE-1620A**   8-port RS-232 PCI-express Comm. Card
- **PCIE-1622A**   8-port RS-232/422/485 PCI-express Comm. Card
- **PCIE-1622B**   8-port RS-232/422/485 PCI-express Comm. Card w/ Surge Protection
- **PCIE-1622C**   8-port RS-232/422/485 PCI-express Comm. Card w/ Surge & Isolation Protection

Accessories

- **OPT8C**   DB62 x1 to DB25 x8 Cable, 1m
- **OPT8H**   DB62 x1 to DB9 x8 Cable, 1m
- **OPT8J**   DB78 x1 to DB9 x8 Cable, 1m

Protection

Model Name	ESD Protection	EFT Protection	Surge Protection	Isolation Protection
PCIE-1620A	15KV (air), 8KV (contact)	1000 V		
PCIE-1622A	15KV (air), 8KV (contact)	1000 V		
PCIE-1622B	15KV (air), 8KV (contact)	1000 V	1000 V	
PCIE-1622C	15KV (air), 8KV (contact)	1000 V	1000 V	3000 V$_{DC}$

Date updated: 28-May-2015