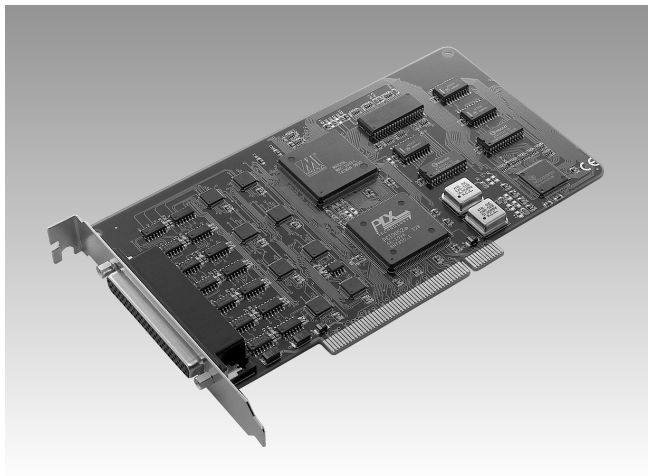


PCI-1625

8-port Intelligent RS-232/422 PCI Communication Card



CE

Features

- RISC Processor (TMS 320)
- 512 KB dual-port RAM
- Transmission speed up to 921.6 Kbps with eight ports on-line
- Complete RS-232 modem control signals
- Maps to just 16 KB of system memory. Choose one of six addresses from C8000 to DC000.
- Many IRQ options: 2, 3, 4, 5, 7, 10, 11, 12 or 15
- Easy-to-use menu driven installation program
- LEDs on connection box let you monitor the TxD/RxD status of any port
- Links to peripherals up to 1200 m (4000 ft) from controller (RS-422)
- Surge protection: 2500 V_{ESD}, 2000 V_{EFT} (Optional)

Introduction

The intelligent PCI-1625 8-port RS-232 or RS-422 interface card was designed for lab and industrial applications where a PC needs to communicate with terminals, modems, or other instruments. RS-422 applications use the optional Opt-8F/8Z 8-port RS-232 to RS-422 converter, shown on the following page. You can install up to four PCI-1625 cards for a total of 32 ports in any PCI bus-based PC.

The PCI-1625 card has an on-board RISC processor that takes over the processing load from the host PC. When you are transferring large amounts of data from multiple ports, servicing the interrupts alone consumes a large percentage of the capacity of your computer's CPU. The PCI-1625 serves as a high speed, dedicated interrupt processor. Its CPU directly controls the board's CD180 RISC-based UART, guaranteeing 921.6 Kbps performance of over eight high speed data ports.

The PCI-1625 is virtually a self contained computer. It contains 512 KB of dual-port RAM which you can use to store and run programs. The dual-port RAM maps into the host system's address space to give you the fastest possible data transfers between the PCI-1625 and the PC memory.

When the PCI-1625 initializes, it downloads the driver software (which functions like a PC's BIOS) into its on-board SRAM. This improves performance and makes version upgrading easy. No hardware redundancy!

Specifications

- **Number of Ports** 8
- **Processor** RISC, TI TMS320C203-57
- **Dual-ported RAM** 512 KB
- **SRAM** 16 KB
- **UART** RISC-based CD180
- **Interrupt** 2, 3, 4, 5, 7, 10, 11, 12 or 15
- **Maximum Ports in One System** 32
- **Operating Temperature** 0 ~ 55° C (32 ~ 131° F)
- **Power Consumption** +5 V @ 155 mA, +12 V @ 110 mA, -12 V @ 160 mA
- **Weight** 0.8 kg (1.8 lbs)

Ordering Information

- **PCI-1625** 8-port Intelligent RS-232/422 Card, with PCI bus
- **Opt8A** 8-port RS-232 (DCE) connection box with female DB-25 connectors
- **Opt8B** 8-port RS-232 (DTE) connection box with male DB-25 connectors
- **Opt8C** 8-port RS-232 connection cable with male DB-25 connectors
- **Opt8H** 8-port RS-232 cable with male DB-62 to DB-9 connector (1 m)