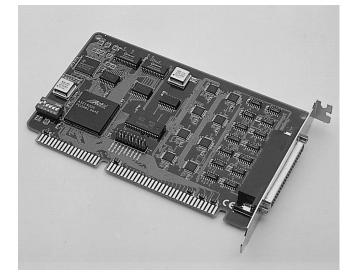
PCL-844+

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



Introduction

We designed the intelligent PCL-844+ 8-port RS-232 or RS-422 interface card 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 PCL-844+ cards for a total of 32 ports in any AT/ISA bus-based PC.

The PCL-844+ card has an on-board RISC processor that takes over the communications load from the host PC. When you are processing large amounts of data from multiple ports, servicing the interrupts alone consumes a large percentage of the capacity of your computer's CPU. The PCL-844+ 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 PCL-844+ is virtually a self contained computer in its own right. 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 PCL-844+ and the PC memory.

When the PCL-844+ initializes, it downloads the driver software (which functions like a PC's BIOS) into on-board SRAM. This improves performance and makes version upgrading easy, with no hardware redundancy.

Specifications

Board

- 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)

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 $\rm V_{\rm ESD},~2000~V_{\rm EFT}$ (Optional)

Power Consumption:

- +5 V @ 155 mA, +12 V @ 110 mA, -12 V @ 160 mA
- Weight: 0.8 kg (1.8 lbs)

RS-232 Interface

- Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD and GND
- Mode: Asynchronous full duplex
- Communication Speed: 50 ~ 921.6 Kbps
- Data Bits: 5, 6, 7, 8
- Stop Bits: 1, 1.5, 2
- Parity: even, odd or none

Ordering Information

- D PCL-844+
- 8-port Intelligent RS-232/422 Card, with ISA bus
- 8-port RS-232 (DCE) connection box with female DB-25 connectors **Op8B**
- 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 connector cable with male DB-9 connector (1 m length)
- □ Opt8Z/110 8-port RS-422 converter with 1.5-meter DB-62 to DB-62 cable and external power adapter (110 V_{ac} input)
- □ 0pt8Z/220

8-port RS-422 converter with 1.5-meter DB-62 to DB-62 cable and external power adapter (220 V_{AC} input)

□ **Opt8F/110** Isolated 8-port RS-422 converter with 1.5-meter DB-62 to DB-62 cable and external power adapter (110 V_{AC} input)

□ **Opt8F/220** Isolated 8-port RS-422 converter with 1.5-meter DB-62 to DB-62 cable and external power adapter (220 V_{AC} input)

- 8-port RS-232 connection box with female DB-25 connectors and surge protectors

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