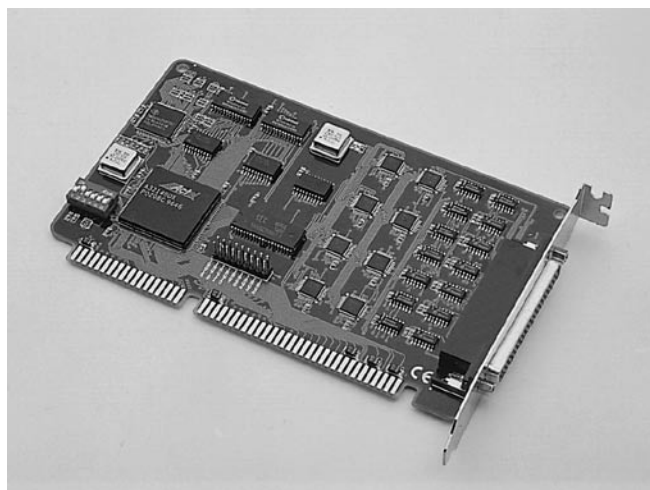


# PCL-844+

## 8-port Intelligent RS-232/422 ISA 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<sub>ESD</sub>, 2000 V<sub>EFT</sub> (Optional)

### Introduction

The intelligent PCL-844+ was designed as a 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.

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 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)
- **Power Consumption** +5 V @ 155 mA, +12 V @ 110 mA, -12 V @ 160 mA
- **Weight** 0.8 kg (1.8 lb)

#### RS-232 Interface

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

### Ordering Information

- **PCL-844+** 8-port Intelligent RS-232/422 Card, with ISA bus
- **Opt8A** 8-port RS-232 (DCE) connection box with female DB25 connectors
- **Opt8B** 8-port RS-232 (DTE) connection box with male DB25 connectors
- **Opt8C** 8-port RS-232 connection cable with male DB25 connectors
- **Opt8H** 8-port RS-232 connector cable with male DB9 connector (1m length)