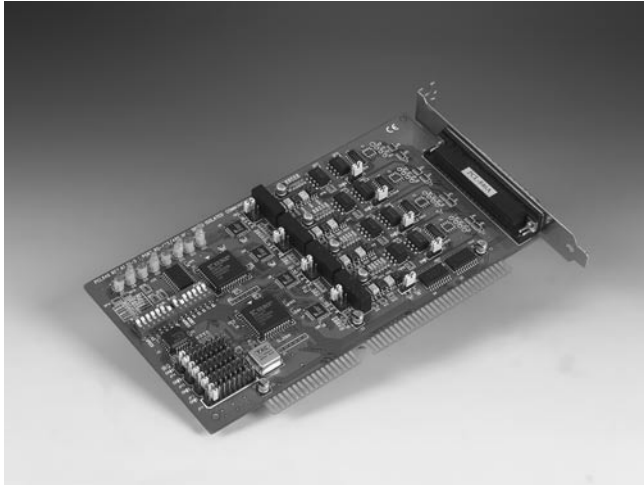# PCL-846
PCL-849
PCL-858

4-port High-speed RS-422/485 Communication Card

4-port RS-232 Communication Card

8-port High-speed RS-232 Communication Card

CE

Features

- Four or eight RS-232 or RS-422/485 serial ports
- Transmission speeds up to 921.6 kbps
- Independent/shared IRQ settings between each of the 4 serial ports
- Wide IRQ selection: 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- Supports COM1, COM2, COM3, and COM4
- Provides 1000 V_{DC} isolation (PCL-846 only)
- Provides 2000 V_{DC} surge protection (PCL-846B only)
- Provides 3000 V_{DC} surge protection (PCL-849B, PCL-849+, PCL-858B)
- Space reserved for termination resistors
- Supports 2 wire or 4 wire operation
- Automatic RS-485 data flow control or RTS control
- Supports Windows® 98/ME/2000/XP, Linux®
- Powerful and easy-to-use utility (ICOM Tools)

Introduction

PCL-800 series communication card provides reliable, high-speed serial communication. The unique shared interrupt can be set to most common (extended) AT interrupts. This simplifies programming, speeds up interrupt processing and frees up interrupts for other devices. PCL-800 series cards also provide surge or isolation protection to prevent your PC and equipment against damage from ground loops, increasing system reliability in harsh environments or abrupt high voltage surges such as those caused by lightning during thunderstorms.

Specifications

General

- **Card Interface**   ISA
- **Certifications**   CE
- **Connectors**   1 x DB37-F (PCL-846, PCL-849)
                           1 x DB62-F (PCL-858)
- **Dimensions**   185 x 100 mm (7.3" x 3.9")
- **Power Consumption**   PCL-846: +5 V @ 970 mA typical, 1.2 A max.
                           PCL-849: +5 V @ 250 mA typical, 500 mA max.
                                    ±12 V @ 70 mA typical, 120 mA max.
                           PCL-858: +5 V @ 450 mA typical, 950 mA max.
                                    ±12 V @ 140 mA typical, 240 mA max

Communications

- **Data Bits**   5, 6, 7, 8
- **Ports**   PCL-846 and PCL-849: 4, PCL-858: 8
- **Stop Bits**   1, 1.5, 2
- **Speed**   PCL-849L: 50 ~ 115.2 kbps
                           PCL-849B, PCL-849+: 50 ~ 307.2 kbps
                           Other: 50 ~ 921.6 kbps
- **Parity**   None, even and odd
- **I/O Address Range**   PCL-846, PCL-849: From 200H to 3F8H
                           PCL-858: From 000H to 3FFH
- **IRQ**   3, 4, 5, 6, 7, 9, 10, 11, 12, 15
- **Data Signals**
  RS-232:   Tx, Rx, CTS, RTS, DTR, DSR, DCD, GND, RI (PCL-849)
  RS-232:   Tx, Rx, CTS, RTS, DTR, DSR, DCD, GND (PCL-858)
  RS-422:   Tx+, Tx-, Rx+, Rx-, GND, CTS+, CTS-, RTS+, RTS-
  RS-485:   Data+, Data-, GND
- **UART**   PCL-846: 4 x 16C550 with 16-byte FIFO
                           PCL-849A/849B/849L: 1 x 16C554
                           PCL-849+: 1 x 16C654
                           PCL-858A/858B: 2 × 16C554

Protection

- **Isolation Voltage**   PCL-846: 1,000 V_{DC}
- **Surge Protection**   PCL-846B: 2,000 V_{DC}
                           PCL-849B, PCL-849+, PCL-858B: 3,000 V_{DC}

Software

- **Bundled Software**   ICOM Tools
- **Driver Support**   Windows 98/ME/2000/XP/Linux

Environment

- **Operating Temperature** 0 ~ 60° C (32 ~ 140° F)
- **Storage Temperature**   -25 ~ 80° C (-13 ~ 176° F)

Ordering Information

- **PCL-846A**   4-port RS-422/485 interface card w/isolation protection (30cm DB37 to 4 DB9 cable included)
- **PCL-846B**   4-port RS-422/485 interface card w/isolation and surge protection (30cm DB37 to 4 DB9 cable included)
- **PCL-849A**   4-port high-speed RS-232 interface card (30cm DB37 to 4 DB25 cable included)
- **PCL-849A/9**   4-port high-speed RS-232 interface card (30cm DB37 to 4 DB9 cable included)
- **PCL-849B**   4-port high-speed RS-232 interface card w/ surge protection (30cm DB37 to 4 DB25 cable included)
- **PCL-849B/9**   4-port high-speed RS-232 interface card w/ surge protection (30cm DB37 to 4 DB9 cable included)
- **PCL-849+**   4-port high-speed RS-232 interface card w/ surge protection and 16C654 UART (30cm DB37 to 4 DB25 cable included)
- **PCL-849+/9**   4-port high-speed RS-232 interface card with surge protection and 16C654 UART (30cm DB37 to 4 DB9 cable included)
- **PCL-849L**   4-port RS-232 interface card (30cm DB37 to 4 DB25 cable included)
- **PCL-849L/9**   4-port RS-232 interface card (30cm DB37 to 4 DB9 cable included)
- **PCL-858A**   8-port high-speed RS-232 interface card (cables not included)
- **PCL-858B**   8-port high-speed RS-232 interface card w/surge protection (cables not included)