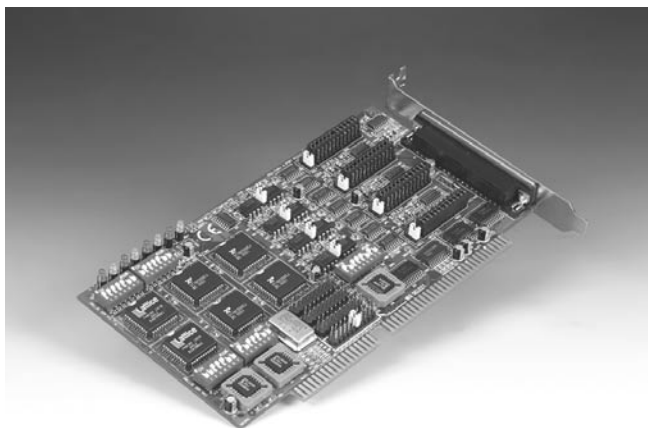


PCL-746+

4-port RS-232/422/485 COMM Card



Features

- Four independent RS-232/422/485 serial ports
- Speeds up to 115.2 kbps
- Interrupts (jumper selectable): 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- Onboard interrupt status register for greater throughput
- Automatic data flow control in RS-485 mode
- RS-422 or RS-485 modes jumper selectable
- Space reserved for optional surge protection on all port lines (in RS-422/485 modes)
- Space reserved for termination resistors
- Compatible with ARCNET® 4-port cards supporting SCO UNIX/XENIX
- Supports Windows® 98/2000/XP, Linux®
- Powerful and easy-to-use utility (ICOM Tools)

Introduction

PCL-746+ is a four-port serial communication interface card. The main feature of this card is that each port can be configured individually to RS-232, RS-422 or RS-485 using on-board jumpers. The card has 16C550 UARTs and improved interrupt handling for reliable operation at transmission speeds of up to 115.2 kbps.

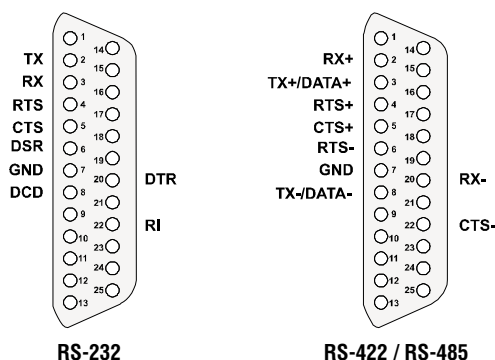
PCL-746+ supports two operating modes: standard mode and enhanced mode. In standard mode each of the four ports can be set up as either the address or the IRQ channel individually. In enhanced mode all four ports can be set to share the same IRQ. When an on-board interrupt occurs, the interrupt status register indicates which port has generated it. The shared interrupt can be set to the most common (extended) AT interrupts. This simplifies programming, speeds up interrupt processing, and frees up interrupts for other devices.

The RS-485 mode automatically senses the direction of incoming data and switches its transmission direction accordingly. This feature makes your network look and act just like an RS-232 network. Application software written for half duplex RS-232 can be used without modification. Moreover, you can simply and quickly build an RS-485 network with just two wires.

Specifications

- **Ports** 4 serial ports
- **Protocol Selection** RS-232/422/485 (jumper selectable)
- **UART** 4 x 16C550 16-byte FIFO
- **Speed** 50 bps ~ 115.2 kbps
- **Base I/O Address Selection** From 000H to 3F8H
- **Interrupt Status Address Selection** From 000H to 3F0H
- **IRQ Selection** 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, even and odd
- **Power Consumption** +5 V @ 800 mA typical, 1.5 A max.
±12 V @ 60 mA typical, 120 mA max.
- **Operating Temperature** 0 ~ 50°C (32 ~ 122° F)
- **Cables** 30cm male DB37 to four male DB25 cables
- **Dimensions** 185 x 100 mm (7.3" x 3.9")
- **Weight** 1.1 kg (2.4 lbs) (including cable)

Pin Assignments



Ordering Information

- **PCL-746+** 4-port serial interface card.(30cm DB37 to 4 DB25 cable included)
- **PCL-746+/9** 4-port serial interface card. (30cm DB37 to 4 DB9 cable included)
- **Opt4A** 4-port RS-232/422/485 connector cable with male DB9 connector (30cm length)