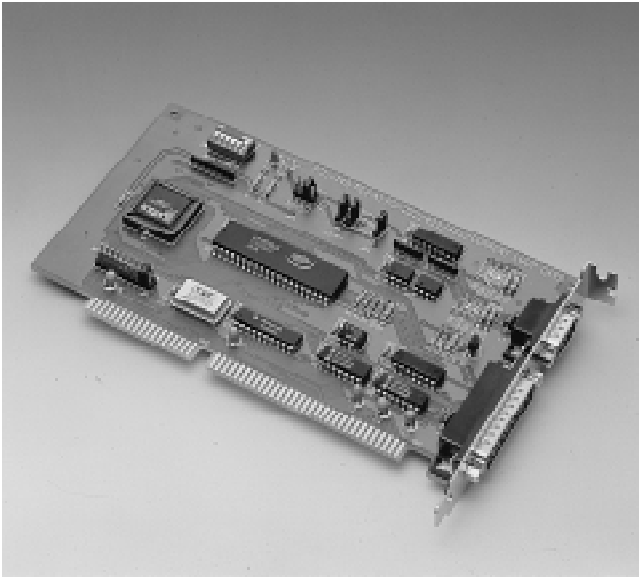


# PCL-740

## RS-232/RS-422/RS-485/Current-loop Serial Interface Card



### Features

- RS-232, RS-422, RS-485 or current-loop interface
- 16C550 UART with 16-byte FIFO
- Transmission speeds up to 115 Kbps
- Flexible I/O address and IRQ selection
- IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- Complete RS-232 modem control signals
- Supports 4 wire or 2 wire operation for RS-422/485
- Automatic RS-485 data flow control
- Space reserved for termination resistors
- Supports COM1, COM2, COM3, or COM4
- PC-ComLIB software included

### Introduction

The PCL-740 offers a versatile range of high speed interfacing options. You can switch its single port between the popular RS-232, long distance RS-422, multi-drop RS-485, or noise-resistant current-loop. The card's 16C550 UART has an on-chip 16-byte FIFO buffer for faster and more reliable communication, especially under Windows.

PCL-740 comes with a communication software package called PC-ComLIB. The package consists of a configurable DOS driver, a programming library that supports most common languages (such as C, Pascal, Visual BASIC, Assembly and Clipper and DataScope). DataScope is a data viewer/ terminal emulator with self-diagnostics utilities for easy troubleshooting and debugging.

#### An RS-485 Network with Automatic Data Flow Control Using RS-232 Software

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. Moreover, you can simply and quickly build an RS-485 network using two wires. Application software written for half duplex RS-232 can be used without modification.

### Applications

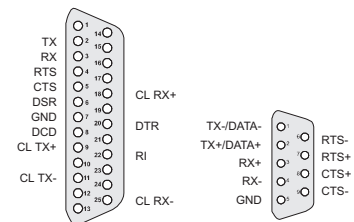
- Instrument controller, distributed control systems
- Interface to modem, bar code reader, scale, plotter feed and serial links for PCs and instruments
- PLC monitoring and control
- Data entry terminals
- Remote data acquisition and control

### Specifications

#### Board

- **Ports:** 1
- **Protocol:** RS-232, RS-422/RS-485 or current-loop
- **UART:** 16C550 with 16-byte FIFO
- **I/O address:** From 200H to 3F8H
- **IRQ:** 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- **Data bits:** 5, 6, 7, 8
- **Stop bits:** 1, 1.5, 2
- **Parity:** Even, odd or none
- **Power consumption:** +5 V @ 180 mA max.  
±12 V @ 20 mA max.
- **Connectors:** DB-9 male and DB-25 male connectors
- **Operating temperature:** 0 ~ 50° C (32 ~ 122° F)
- **Dimensions:** 185 mm x 100 mm (7.3" x 3.9")
- **Shipping weight:** 0.6 kg (1.3 lbs)

### Pin Assignments



RS-232/current-loop

RS-422/RS-485

### Ordering Information

- **PCL-740:** RS-232/RS-422/RS-485/current-loop serial interface card. Includes PC-ComLIB software and user's manuals