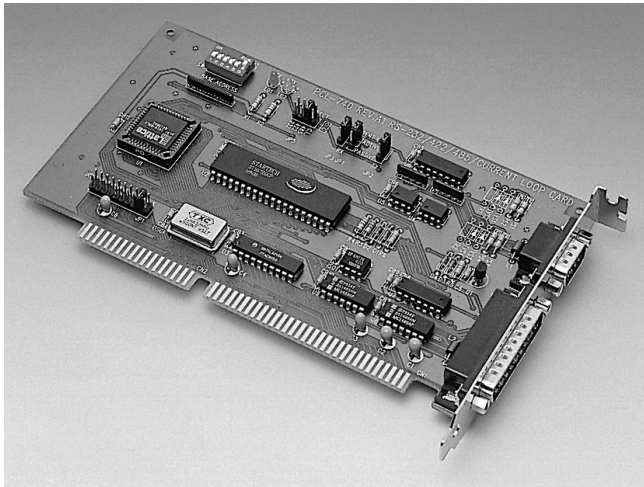


# PCL-740 PCL-741

## RS-232/RS-422/RS-485/Current-loop COMM Cards

## Isolated Dual-port RS-232/Current-loop COMM Cards



### 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
- Supports Windows® 95/98/NT/ME/2000/XP, Linux (ICOM utility), DOS

### 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.

The PCL-741 provides two isolated RS-232 or current-loop serial ports. You can configure each port individually to RS-232 or current-loop using on-board jumpers.

The card has two 16C550 UARTs with on-chip 16-byte FIFO buffers. The UARTs buffer data into 16-byte packets before sending it to the bus. This drastically reduces CPU load and avoids data loss when the system is busy and cannot process the interrupt quickly. These FIFO buffers make the PCL-741 especially suitable for high speed serial I/O under Windows.

Onboard optical isolators protect your PC and equipment against damage from ground loops, increasing system reliability in harsh

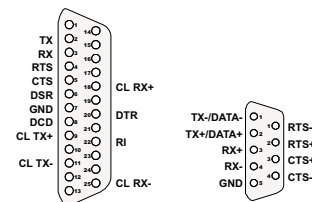
### Specifications

#### Board

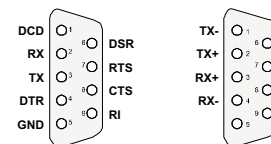
- **Ports** 1
- **Protocol** RS-232, RS-422/RS-485 or current-loop (PCL-740)  
RS-232 or current-loop (20 mA) (PCL-741)
- **I/O Address** from 200H to 3F8H
- **IRQ** 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** Even, odd or none
- **Power Isolation** 500 V<sub>DC</sub> (PCL-741)
- **Signal Isolation** 2500 V<sub>DC</sub> (PCL-741)
- **Power Consumption** PCL-740: +5 V @ 180 mA max., ±12 V @ 20 mA max.  
PCL-741: +5 V @ 300 mA (typical), +5 V @ 1.1 A max.
- **Connectors** DB-9 male and DB-25 male connectors
- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Dimensions** 185 x 100 mm (7.3" x 3.9")
- **Shipping Weight** 0.6 kg (1.3 lbs)

### Pin Assignments

#### PCL-740



#### PCL-741



### Ordering Information

- **PCL-740** RS-232/RS-422/RS-485/current-loop serial interface card
- **PCL-741** Isolated dual-port RS-232/current-loop interface card.

1  
IPPC & AWS

2  
TPC

3  
FPM

4  
ATM

5  
DA&C

6  
ePCI

7  
ADAM-3000

8  
eConnectivity

9  
ICOM

10  
Software

11  
UNO-2000/3000

12  
VBOX

13  
ADAM-4000

14  
ADAM-5000

15  
ADAM-6000

16  
ADAM-8000