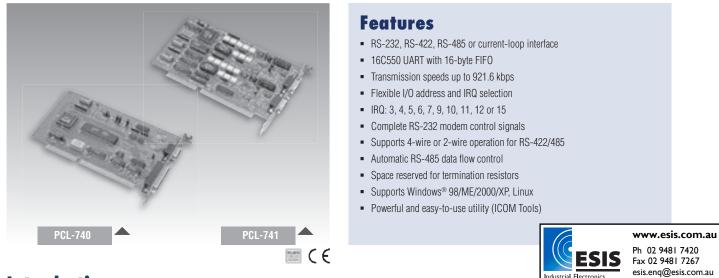
PCL-740 PCL-741 PCL-743/745 **PCL-746**+

RS-232/422/485, Current-loop Communication Card 2-port RS-232, Current-loop Communication Card 2-port RS-422/485 Communication Cards 4-port RS-232/422/485 Communication Card



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 onboard 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 environments.

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Specifications

General

 Card Interface Certifications Connectors 	ISA CE PCL-740: 1 x DB9-M, 1 x DB25-M PCL-741, PCL-743, PCL-745: 2 x DB9-M PCL-746+: 1 x DB37-F	• Stop Bits • UART	PCL-743, PCL-745: 2 x 16C550 PCL-746+: 4 x 16C550 16-byte PCL-740: 1 x 16C550 with 16-by PCL-741: 2 x 16C550 with 16-by
 Dimensions Power Consumption 	185 x 100 mm (7.3" x 3.9") 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. PCL-743,PCL-745:+5V@400 mA typical, 950 mA max. PCL-746+: +5 V @ 800 mA typical, 1.5 A max.	Protection Isolation Protection EFT Surge Protection Software	2500 V_{DC} (PCL-741), 3000 V_{DC} (2500 V_{DC} (PCL-743S/745S)
 Weight (Gross) 	+12 V @ 60 mA typical, 120 mA max. PCL-740,PCL-741, PCL-743, PCL-745: 0.6 kg (1.3 lb) PCL-746+: 1.1 kg (2.4 lb) (including cable)	 Bundled Software Driver Support Environment 	ICOM Tools Windows 98/ME/2000/XP, Linux
Communications			PCL-740,PCL-741,PCL-746+: 0
 Data Bits Data Signals RS-232: Current loop: RS-422: 	5, 6, 7, 8 Tx, Rx, CTS, RTS, DTR, DSR, DCD, GND, RI Tx+, Tx-, Rx+, Rx- Tx+, Tx-, Rx+, Rx-, GND, CTS+, CTS-, RTS+, RTS-	Ordering Info • PCL-740	PCL-743, PCL-745: 0 ~ 65° C (3
RS-485: • I/O Address • IRO	Data+, Data-, GND From 200H to 3F8H (for PCL-740/741/743/745) From 000h to 3F8H (for PCL-746+) 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15	 PCL-741 PCL-743B 	card Isolated dual-port RS-232/currer 2-port RS-422/485 communicati
 Ports 	PCL-740: 1, PCL-741: 2 PCL-743, PCL-745: 2 PCL-746+: 4	PCL-743SPCL-745B	2-port RS-422/485 communicati surge protection 2-port RS-422/485 communicati
 Parity Protocols	None, even, odd PCI-740: RS-232/422/485, current-loop PCI-741: RS232, current-loop PCI-741: RS232, current-loop	 PCL-745S POL-746 	protection 2-port RS-422/485 communicati and EFT Surge Protection
- Speed	PCI-743, 745: RS-422/485 PCI-746+: RS-232/422/485 PCL-740, PCL-741: 50 bps ~115.2 kbps (for RS-232/422/485)	PCL-746+PCL-746+/9	4-port RS-232/422/485 commun (30cm DB37 to 4 DB25 cable inc 4-port RS-232/422/485 commun (30cm DB37 to 4 DB9 cable inclu

50 bps~57.6 kbps (current-loop) PCL-743, PCL-745: 50 bps ~ 921.6 kbps PCL-746+: 50 bps ~ 115.2 kbps , PCL-745: 2 x 16C550 with 16-byte FIFO +: 4 x 16C550 16-byte FIFO 1: 1 x 16C550 with 16-byte FIFO 1: 2 x 16C550 with 16-byte FIFO

(PCL-741), 3000 V_{DC} (PCL-745B/745S)

,PCL-741,PCL-746+: 0 ~ 50° C (32 ~ 122° F) , PCL-745: 0 ~ 65° C (32 ~ 149° F)

tion

RS-422/RS-485/current-loop serial interface dual-port RS-232/current-loop interface card. S-422/485 communication card S-422/485 communication card with EFT otection S-422/485 communication card with isolation S-422/485 communication card with isolation Surge Protection S-232/422/485 communication card B37 to 4 DB25 cable included) S-232/422/485 communication card B37 to 4 DB9 cable included)