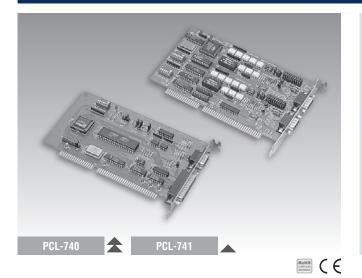
PCL-740 PCL-741 PCL-743/745 **PCL-746**+

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



Features

- RS-232, RS-422, RS-485 or current-loop interface
- 16C550 UART with 16-byte FIFO
- Transmission speeds up to 921.6 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 Windows® 98/ME/2000/XP, Linux
- Powerful and easy-to-use utility (ICOM Tools)

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 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.

Specifications

General

General		Stop Bits
 Card Interface Certifications 	ISA CE	• UART
 Connectors 	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	Drotootion
 Dimensions 	185 x 100 mm (7.3" x 3.9")	Protection
 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.	IsolationEFT Surg
	PCL-743, PCL-745: +5 V @ 400 mA typical, 950 mA max. PCL-746+: +5 V @ 800 mA typical, 1.5 A max. ±12 V @ 60 mA typical, 120 mA max.	Software Bundled
 Weight (Gross) 	PCL-740,PCL-741, PCL-743, PCL-745: 0.6 kg (1.3 lb) PCL-746+: 1.1 kg (2.4 lb) (including cable)	 Driver Su Environme
Communications		
		 Operating
 Data Bits 		
 Data Signals 	RS-232: Tx, Rx, CTS, RTS, DTR, DSR, DCD, GND, RI Current loop: Tx+, Tx-, Rx+, Rx- RS-422: Tx+, Tx-, Rx+, Rx-, GND, CTS+, CTS-, RTS+, RTS- RS-485: Data+, Data-, GND	Order • PCL-740
I/O Address	From 200H to 3F8H (for PCL-740/741/743/745) From 000h to 3F8H (for PCL-746+)	 PCL-741 PCL-743
IRQ IRQ	3, 4, 5, 6, 7, 9, 10, 11, 12 or 15	 PCL-743
 Ports 	PCL-740: 1, PCL-741: 2	- 101-740
	PCL-743, PCL-745: 2 PCL-746+: 4	 PCL-745I
 Parity 	None, even, odd	PCL-745
Protocols	PCI-740: RS-232/422/485, current-loop	• FUL-743
	PCI-741: RS232, current-loop	PCL-746-
	PCI-743, 745: RS-422/485	= FUL-/40-
Croad	PCI-746+: RS-232/422/485	- DCI 746
Speed	PCL-740, PCL-741: 50 bps ~ 115.2 kbps (for RS-232/422/485)	PCL-746-

50 bps ~ 57.6 kbps (current-loop) PCL-743, PCL-745: 50 bps ~ 921.6 kbps PCL-746+: 50 bps ~ 115.2 kbps 1, 1.5, 2 PCL-743, PCL-745: 2 x 16C550 with 16-byte FIFO PCL-746+: 4 x 16C550 16-byte FIFO PCL-740: 1 x 16C550 with 16-byte FIFO PCL-741: 2 x 16C550 with 16-byte FIFO

ection

olation Protection 2500 V_{DC} (PCL-741), 3000 V_{DC} (PCL-745B/745S) 2500 V_{DC} (PCL-743S/745S) T Surge Protection

ware

- undled Software river Support
- ICOM Tools Windows 98/ME/2000/XP, Linux

ronment

erating Temperature PCL-740, PCL-741, PCL-746+: 0 ~ 50° C (32 ~ 122° F) PCL-743, PCL-745: 0 ~ 65° C (32 ~ 149° F)

dering Information

1	PCL-740	RS-232/RS-422/RS-485/current-loop serial interface card	
•	PCL-741	Isolated dual-port RS-232/current-loop interface card.	
•	PCL-743B	2-port RS-422/485 communication card	
1	PCL-743S	2-port RS-422/485 communication card with EFT surge protection	
1	PCL-745B	2-port RS-422/485 communication card with isolation protection	
1	PCL-745S	2-port RS-422/485 communication card with isolation and EFT Surge Protection	
•	PCL-746+	4-port RS-232/422/485 communication card	
		(30 cm DB37 to 4 DB25 cable included)	
•	PCL-746+/9	4-port RS-232/422/485 communication card	
		(30 cm DB37 to 4 DB9 cable included)	