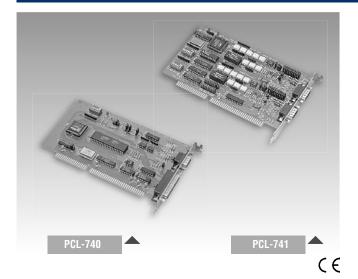
PCL-740 PCL-741 PCL-743/745 PCL-746+

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

PCL-740, PCL-741: 50 bps ~115.2 kbps

(for RS-232/422/485) 50 bps~57.6 kbps (current-loop)



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 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 environments.

Speed

Specifications

General

ucilciai			PCL-743, PCL-745: 50 bps ~ 921.6 kbps
 Card Interface 	ISA		PCL-746+: 50 bps ~ 115.2 kbps
 Certifications 	CE	 Stop Bits 	1, 1.5, 2
 Connectors 	PCL-740: 1 x DB9-M, 1 x DB25-M	• UART	PCL-743, PCL-745: 2 x 16C550 with 16-byte FIFO
	PCL-741, PCL-743, PCL-745: 2 x DB9-M		PCL-746+: 4 x 16C550 16-byte FIFO
	PCL-746+: 1 x DB37-F		PCL-740: 1 x 16C550 with 16-byte FIFO
 Dimensions 	185 x 100 mm (7.3" x 3.9")		PCL-741: 2 x 16C550 with 16-byte FIFO
 Power Consumption 	PCL-740: +5 V @ 180 mA max., ±12 V @ 20 mA max.	Protection	· · · · · · · · · · · · · · · · · · ·
	PCL-741: +5 V @ 300 mA (typical), +5 V @ 1.1 A max.	 Isolation Protection 	
	PCL-743,PCL-745:+5V@400 mA typical, 950 mA max.	 Surge Protection 	2500 V _{DC} (PCL-741), 3000 V _{DC} (PCL-745B/745S) 2500 V _{DC} (PCL-743S/745S)
	PCL-746+: +5 V @ 800 mA typical, 1.5 A max.	•	2300 V _{DC} (FOL-1433/1433)
	±12 V @ 60 mA typical, 120 mA max.	Software	
 Weight (Gross) 	PCL-740,PCL-741, PCL-743, PCL-745: 0.6 kg (1.3 lb)	 Bundled Software 	ICOM Tools
	PCL-746+: 1.1 kg (2.4 lb) (including cable)	 Driver Support 	Windows 98/ME/2000/XP, Linux
Communications		Environment	
 Data Bits 	5, 6, 7, 8	 Operating Temperature 	PCL-740,PCL-741,PCL-746+: 0 ~ 50° C (32 ~ 122° F)
 Data Signals 			PCL-743, PCL-745: 0 ~ 65° C (32 ~ 149° F)
RS-232:	Tx, Rx, CTS, RTS, DTR, DSR, DCD, GND, RI	Ordering Info	rmation
Current loop:	Tx+, Tx-, Rx+, Rx-		
RS-422:	Tx+, Tx-, Rx+, Rx-, GND, CTS+, CTS-, RTS+, RTS-	PCL-740	RS-232/RS-422/RS-485/current-loop serial interface
RS-485:	Data+, Data-, GND		card
I/O Address	From 200H to 3F8H (for PCL-740/741/743/745)	 PCL-741 	Isolated dual-port RS-232/current-loop interface card.
	From 000h to 3F8H (for PCL-746+)	 PCL-743B PCL-743B 	2-port RS-422/485 communication card
▪ IRQ	3, 4, 5, 6, 7, 9, 10, 11, 12 or 15	PCL-743S	2-port RS-422/485 communication card with surge
 Ports 	PCL-740: 1, PCL-741: 2		protection
	PCL-743, PCL-745: 2	PCL-745B	2-port RS-422/485 communication card with isolation
	PCL-746+: 4	- DOL 7450	protection
 Parity 	None, even, odd	PCL-745S	2-port RS-422/485 communication card with isolation
 Protocols 	PCI-740: RS-232/422/485, current-loop	- DCI 746	and surge protection
	PCI-741: RS232, current-loop	PCL-746+	4-port RS-232/422/485 communication card
	PCI-743, 745: RS-422/485	PCL-746+/9	(30cm DB37 to 4 DB25 cable included)
	PCI-746+: RS-232/422/485	- FUL-/40+/9	4-port RS-232/422/485 communication card
			(30cm DB37 to 4 DB9 cable included)