

4 Port RS-232/422/485 PCI Card **CE**

Models: CP-114 CP-114I

Models **CP-114** and **CP-114I** are designed for RS-232 and RS-422/485 industrial communications. These PCI cards support a total of 4 ports each. Two of the ports are jumper selectable for RS-232 or RS-422/485, while the other 2 ports are RS-422/485. Each RS-422/485 port is capable of controlling up to 32 devices in a multi-drop environment.

These cards support ADDC (Automatic Data Direction Control) while in RS-485 mode. ADDC can easily manage the half-duplex RS-485 port's data transmitting and receiving without the need for extra code. In addition, on-chip hardware flow control and built-in termination resistors guarantee data integrity. Optical isolation on model CP-114I offers high reliability. All these attributes make the CP-114 and CP-114I suitable for harsh industrial applications.



Features

Supports three serial interfaces in one board (2 ports for RS-232 or RS-422/485 and 2 ports for RS-422/485)
Optical isolation available with model CP-114I
RS-485 data control: ADDC (Automatic Data Direction Control) or by RTS
Built-in termination resistors
On-chip hardware flow control

Applications

Multipoint data acquisition
Industrial control
Factory automation
Embedded industrial machines
Remote serial device control
SCADA systems

Specifications

I/O controller: 16C550C or compatible x 4, (16 byte Tx and Rx FIFO's)
Connector type: DB37S (includes 12 in. DB37P to 4-DB9 male cable)
Bus: PCI version 2.1 (32 bit)
Serial: RS-232, RS-422/485
Ports: 4 (two jumper selectable for RS-232 or RS-422/485 and two RS-422/485)
Signals & pin-out: RS-232: TD (3), RD (2), RTS (7), CTS (8), DTR (4), DSR (6), DCD (1), GND (5)
RS-422: TD+ (2), TD- (1), RD+ (3), RD- (4), GND (5), RTS+ (7), RTS- (6), CTS+ (8), CTS- (9)
RS-485: Data+ (2), Data- (1), GND (5)
RS-485 Control: Auto ADDC or by RTS
Termination: RS-422: 120 ohm
RS-485: 120 ohm, jumper enabled
Baud rate: 50 bps - 921.6 Kbps
Max. no. of ports: 16 (with 4 boards per system)
Parity: None, even, odd, space, mark
Data bits: 5, 6, 7, 8
Stop bits: 1, 1.5, 2
IRQ: Assigned by BIOS
I/O address: Assigned by BIOS
Compatibility: Windows XP, 2000, NT, 95, 98, ME; DOS, Linux 2.0.x (Intel x 86), Linux 2.0.x (Alpha), Linux 2.2.x (Intel x 86), Linux 2.2.x (Alpha)
Power: CP-114: 720 mA max. (+5V), 43 mA max. (+12V), 31 mA max. (-12V)
CP-114I: 1164 mA max. (+5V), 35 mA max. (+12V), 48 mA max. (-12V)
Isolation: 2000V max (CP-114I)
Operating temp: 32 to 131°F (0 to 55°C)
Dimensions: CP-114: 5.3 x 4.3 in (13.5 x 11 cm)
CP-114I: 6.3 x 4.7 in (16 x 12 cm)
Approvals: FCC, CE

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