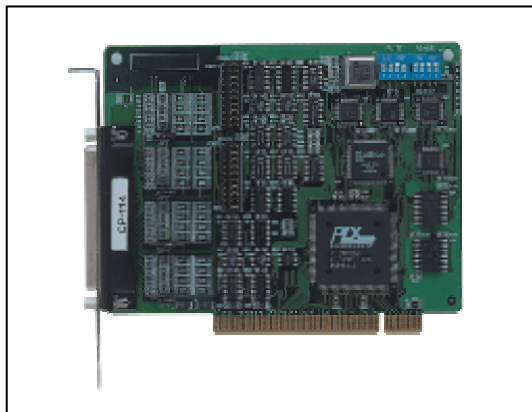


Model CP-114 Series
Multiport Serial Board
4-Port 3-in-1 Industrial
Communication PCI Board



Overview

The Industio CP-114 series of multiport serial boards is designed for RS-232 and RS-422/485 industrial communication. These multiport serial boards support 2 ports for RS-232 or RS-422/485, selectable by jumper, and the other 2 ports for RS-422/485, with each RS-422/485 port able to control up to 32 devices in a multidrop environment.

By using ADDC™ (Automatic Data Direction Control) intelligence, applications can easily manage the half-duplex RS-485 port's data transmitting and receiving without the need for writing extra code. In addition, on-chip hardware flow control and built-in termination resistors guarantee data integrity, and optical isolation and surge protection options are also available to deliver high reliability. All of the above attributes make the CP-114 series of multiport serial boards suitable for harsh industrial applications.

Features

Supports three serial interfaces in one board (2 ports for RS-232 or RS-422/485, selectable by jumper, 2 ports for RS-422/485)

Available with surge protection or optical isolation as options

Supports ADDC (Automatic Data Direction Control) intelligence

RS-485 data control: ADDC or by RTS

Built-in termination resistors

On-chip hardware flow control

Works perfectly with all major operating systems

Benefits

Three serial interfaces in one board improves connection flexibility

High reliability in harsh industrial environments

ADDC intelligence simplifies RS-485 software programming, reducing development time and cost

Applications

Multipoint data acquisition

Industrial control

Factory automation

Embedded industrial machines

Remote serial device control

SCADA systems

International Headquarters:

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Specifications

Hardware

I/O Controller 16C550C or compatible x 4, each with a 16 byte Tx/Rx FIFO
 Connector Type DB37 to Male DB9

Interface

Bus PCI ver. 2.1 (32-bit)
 Serial RS-232, RS-422/485
 No. of Ports 4 (2 ports for RS-232 or RS-422/485, selectable by jumper, 2 ports for RS-422/485)
 Signals RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
 RS-422: TxD+/-, RxD+/-, RTS+/-, CTS+/-, GND
 RS-485: Data+/-, GND
 RS-485 Data Control Auto ADDC or by RTS
 Built-in Termination Resistor RS-422: 120 Ohm
 RS-485: 120 Ohm, jumper enabled/disable

Performance

Speed 50 bps – 921.6 Kbps
 Max. No. of Ports 16 (4 boards)

Configuration

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

OS Supported

CP-114 Series Windows XP, Windows 2000, Windows NT, Windows 95/98/ME, DOS, Linux 2.0.x (Intel x86), Linux 2.0.x (Alpha), Linux 2.2.x (Intel x86), Linux 2.2.x (Alpha), Linux 2.4.x (Intel x86)

Power and Environment

Power Requirements CP-114: 720 mA (+5V), 43 mA (+12V), 31 mA (-12V)
 CP-114S: 735 mA (+5V), 44 mA (+12V), 33 mA (-12V)
 CP-114I: 1160 mA (+5V), 35 mA (+12V), 48 mA (-12V)
 CP-114IS: 1170 mA (+5V), 36 mA (+12V), 49 mA (-12V)
 Operating Temp. 0 – 55°C
 Operating Humidity 5 – 95%RH
 Storage Temp. -20 – 85°C
 Dimensions CP-114: 135 x 110 mm (W x D)
 CP-114S: 135 x 110 mm (W x D)
 CP-114I: 160 x 120 mm (W x D)
 CP-114IS: 160 x 120 mm (W x D)
 Surge Protection CP-114S: 25 KV ESD
 CP-114IS: 25 KV ESD
 Isolation Protection CP-114I: 2 KV
 CP-114IS: 2 KV
 Regulatory Approvals FCC, CE

Models:

Description:

CP-114.....4-port RS-232, RS-422/485 board
 CP-114S.....4-port RS-232, RS-422/485 board with surge protection
 CP-114I.....4-port RS-232, RS-422/485 board with optical isolation
 CP-114IS.....4-port RS-232, RS-422/485 board with optical isolation and surge protection

All items include MOXA software CD-ROM: contains drivers and MOXA PComm Lite serial comm development tool and User's Manual.

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