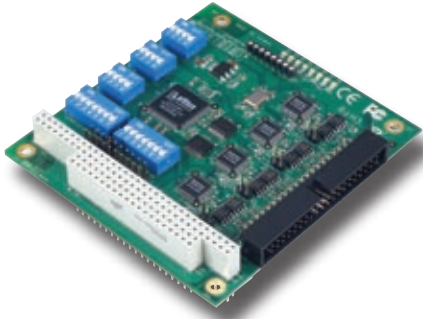# CA-114

4-port RS-232/422/485 PC/104 Module

Features

> **Data transmission speed up to 921.6 Kbps**

> **On-chip H/W and S/W flow control**

> **Built-in 15 KV ESD protection**

> **IRQ, I/O settings, and serial interface are jumper and DIP switch selectable**

> **Onboard Tx, Rx LED indicators for each port**

> **Windows CE 5.0 and XP embedded operating systems supported**

> **Wide temperature model suitable for -40 to 85°C environments**

: Overview

The CA-114 is a 4-port RS-232/422/485 PC/104 module that meets the embedded PC standard. The module can be used with PC/104 CPU boards that accept the PC/104 expansion interface, and optional DB9 and DB25 connection cables are available for connecting to many different devices. The CA-114's versatile driver support makes the module suitable for a wide range of applications. All products in the series provide a reliable, high performance solution for multiport serial communications.

: Specifications

Hardware
I/O controller: 16C550C or compatible x 4
Connector type: 40-pin box header

Interface
Bus: PC/104 bus (Ver. 2.4)
No. of ports: 4
Max. No. of ports: 16 (4 boards)

Signals
RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
RS-422: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
4-wire RS-485: TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND
2-wire RS-485: Data+(B), Data-(A), GND

Performance
Baudrate: 50 bps to 921.6 Kbps

Configuration
Parity: None, Even, Odd, Space, Mark
Data Bits: 5, 6, 7, 8

Stop Bit(s): 1, 1.5, 2
IRQ: Shared IRQ for all ports
(includes IRQ 3, 4, 5, 6, 7, 9, 10, 11, 12, 15)
FIFO: 64 bytes
DIP Switches: For IO-Base address, interrupt vector, serial interface
OS Driver Support: DOS, Windows 2000/XP/2003, Windows XP Embedded, Windows CE 5.0, Linux 2.4, Linux 2.6

Power and Environment
Operating Temperature: 0 to 55°C (32 to 131°F),
-40 to 85°C (-40 to 185°F) for "-T" models
Operating Humidity: 5 to 95% RH
Storage Temperature: -40 to 85°C (-40 to 185°F)
ESD Protection: Embedded 15 KV ESD protection

Dimensions (W x D): 96 x 90 mm

Regulatory Approvals
EN55022 Class A, EN55024, EN6100-3-2, EN61000-3-3, FCC Part 15 Class A

Warranty: 5 years

: Ordering Information

CA-114: PC/104 bus, 4-port RS-232/422/485 module
CA-114-T: PC/104 bus, 4-port RS-232/422/485 module, -40 to 85°C operating temperature

Optional Accessories (choose one per board)
CBL-F40M9x4-50: 40-pin box header to 4-port male DB9 connection cable
CBL-F40M25x4-50: 40-pin box header to 4-port male DB25 connection cable

Package Checklist
• Document and Software CD-ROM
• Quick Installation Guide

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Multiport Serial Boards