

CA-114 Series

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



- > 921.6 Kbps maximum baudrate for super fast data transmission
- > On-chip H/W and S/W flow control
- > Built-in 15 KV ESD protection
- > IRQ settings, I/O settings, and serial interface are jumper and DIP switch selectable
- > Onboard Tx and Rx LED indicators for each port
- > Windows CE 5.0/6.0 and Windows XP embedded operating systems supported
- > Wide temperature model available for -40 to 85°C environments



Overview

The CA-114 PC/104 modules are reliable, high performance, multiport serial communication solutions that have 4 RS-232/422/485 ports, and can be used with PC/104 CPU boards that accept the PC/104 expansion interface. Optional DB9 and DB25 connection cables are

available for connecting to serial devices, and the CA-114s' versatile driver support makes the modules suitable for a wide range of applications.

Specifications

Hardware

Comm. Controller: 16C550C or compatible x 4

Bus: PC/104 bus

Connector: 40-pin box header

DIP Switches: I/O base address, interrupt vector, serial interface

Serial Interface

Number of Ports: 4

Serial Standards: RS-232/422/485

Max. No. of Boards per PC: 4

Serial Line Protection

ESD Protection: 15 KV on the board

Performance

Baudrate: 50 bps to 921.6 Kbps

Serial Communication Parameters

Data Bits: 5, 6, 7, 8

Stop Bits: 1, 1.5, 2

Parity: None, Even, Odd, Space, Mark

IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12, 15 (shared for all ports)

FIFO: 64 bytes

Serial Signals

RS-232: Tx/D, Rx/D, RTS, CTS, DTR, DSR, DCD, GND

RS-422: Tx/D+(B), Tx/D-(A), Rx/D+(B), Rx/D-(A), GND

RS-485-4w: Tx/D+(B), Tx/D-(A), Rx/D+(B), Rx/D-(A), GND

RS-485-2w: Data+(B), Data-(A), GND

Driver Support

Operating Systems: Windows 9X/ME/NT/2000, Windows XP/2003 x86/x64, Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 x86/x64, QNX 4/6

Note: Please refer to Moxa's website for the latest driver support information.

Physical Characteristics

Dimensions: 90 x 96 mm (3.54 x 3.78 in)

Environmental Limits

Operating Temperature:

Standard Models: 0 to 55°C (32 to 131°F)

Wide Temp. Models: -40 to 85°C (-40 to 185°F)

Operating Humidity: 5 to 95% RH

Storage Temperature: -40 to 85°C (-40 to 185°F)

Regulatory Approvals

FCC: Part 15 Class A

EMS: EN55022, EN55024, EN61000-3-2, EN61000-3-3, IEC 61000-6-2, IEC 61000-6-4, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11 (DIPS)

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Ordering Information

Available Models

CA-114: 4-port RS-232/422/485 PC/104 module, 0 to 55°C operating temperature

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

Connection Options (can be purchased separately)

CBL-F40M9x4-50: 40-pin box header to DB9 male x 4 connection cable, 50 cm

CBL-F40M25x4-50: 40-pin box header to DB25 male x 4 connection cable, 50 cm

Package Checklist

- CA-114 or CA-114-T module
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card