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 and Windows XP embedded operating systems supported
> Wide temperature model available for -40 to 85°C environments

The certification logos shown here apply to some or all of the products in this section. Please see the **Specifications** section or Moxa's website for details.

: Overview

The CA-114 PC/104 module is a reliable, high performance, multiport serial communication solution that has 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-114's versatile driver support makes the module 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
Number of Boards: 4 per PC (max.)

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

Driver Support

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

Physical Characteristics

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

Environmental Limits

Operating Temperature:
CA-114: 0 to 55°C (32 to 131°F)
CA-114-T: -40 to 85°C (-40 to 185°F)

Operating Humidity: 5 to 95% RH

Storage Temperature: -40 to 55°C (-40 to 131°F)

Regulatory Approvals: EN55022, EN55024, EN61000-3-2, EN61000-3-3, IEC61000-6-2, IEC61000-6-4, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11, FCC Part 15 Class A

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

Optional Accessories (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