

# CB-114 Series

## 4-port RS-232/422/485 PC/104-Plus 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
- > Serial interface is 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

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.



### Overview

The CB-114 PC/104-Plus modules come with 4 RS-232/422/485 ports, and can be used with PC/104-Plus CPU boards that accept the PC/104-Plus expansion interface. Optional DB9 and DB25 connection cables are available for connecting to serial devices, and the CB-114s'

versatile driver support makes the modules suitable for a wide range of applications. The CB-114 modules can be used on the PC/104-Plus (PCI) bus, and provide a reliable, high performance solution for multiport serial communication.

### Specifications

#### Hardware

**Comm. Controller:** MU860 (16C550C compatible)

**Bus:** PC/104-Plus bus

**Connector:** 40-pin box header

**DIP Switches:** 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

**I/O Address:** Assigned by BIOS

**IRQ:** Assigned by BIOS

**FIFO:** 128 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/Vista/2008 x86/x64), Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4, Linux 2.6 (x86/x64), QNX 6

#### 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 55°C (-40 to 131°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](http://www.moxa.com/warranty)

### Ordering Information

#### Available Models

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

**CB-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

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