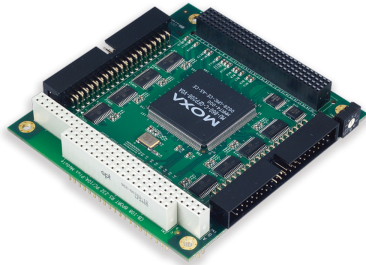


# CB-108 Series

## 8-port RS-232 PC/104-Plus modules



- > 921.6 kbps maximum baudrate for super fast data transmission
- > On-chip H/W and S/W flow control
- > Onboard Tx and Rx LED indicators for each port
- > Windows, 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 CB-108 PC/104-Plus modules come with 8 RS-232 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-108s'

versatile driver support makes the modules suitable for a wide range of applications. The CB-108 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

#### Serial Interface

**Number of Ports:** 8  
**Serial Standards:** RS-232  
**Max. No. of Boards per PC:** 8

#### Performance

**Baudrate:** 50 bps to 921.6 kbps (supports non-standard baudrates)

#### 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

#### Operating Systems

**Windows:** Windows 95/98/ME/NT, Windows 2000/XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016 (x64), DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded

**Fixed TTY Drivers:** QNX 6

**Linux Real TTY Drivers:** Linux 2.4.x, 2.6.x

**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)  
**Storage Temperature:** -40 to 85°C (-40 to 185°F)  
**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### Standards and Certifications

**EMC:** EN 55022/24, IEC 61000-6-2/6-4  
**EMI:** FCC Part 15 Subpart B Class A  
**EMS:**  
 IEC 61000-4-2 ESD: Contact 4kV; Air: 8kV  
 IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m  
 IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV  
 IEC 61000-4-5 Surge: Power: 0.5 kV  
 IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m  
 IEC 61000-4-8 PFMF

**Green Product:** RoHS, CRoHS, WEEE

#### MTBF (mean time between failures)

**Time:** 403,631 hrs  
**Standard:** Telcordia (Bellcore), GB

#### Power Requirements

**Power Consumption:** 153 mA @ 5 VDC

#### Warranty

**Warranty Period:** 5 years  
**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### : Ordering Information

#### Available Models

**CB-108:** 8-port RS-232 PC/104-Plus module, 0 to 55°C operating temperature  
**CB-108-T:** 8-port RS-232 PC/104-Plus module, -40 to 85°C operating temperature

#### Package Checklist

- 1 CB-108 or CB-108-T module
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card