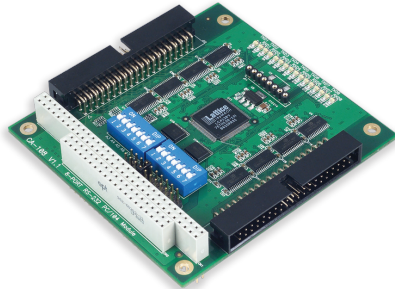


# CA-108 Series

## 8-port RS-232 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 and I/O settings 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-108 PC/104 modules are reliable, high performance, multiport serial communication solutions that have 8 RS-232 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-108s' versatile driver support makes the modules suitable for a wide range of applications.

### Specifications

#### Hardware

**Comm. Controller:** 16C550C or compatible x 8  
**Bus:** PC/104 bus  
**Connector:** 40-pin box header  
**DIP Switches:** I/O base address, interrupt vector

#### Serial Interface

**Number of Ports:** 8  
**Serial Standards:** RS-232  
**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:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, 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)

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

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

**Altitude:** Up to 2000 m

*Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.*

#### Standards and Certifications

**EMC:** CE, FCC

**EMI:** EN 55022, EN 61000-3-2, EN 61000-3-3, FCC Part 15 Subpart B Class A

**EMS:** EN 55024, 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)

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

**MTBF (mean time between failures)**

**Time:** 408,357 hrs

**Database:** Telcordia (Bellcore), GB

#### Power Requirements

**Power Consumption:** 265 mA @ 5 VDC

#### Warranty

**Warranty Period:** 5 years

**Details:** See [www.moxa.com/warranty](http://www.moxa.com/warranty)

### Ordering Information

#### Available Models

**CA-108:** 8-port RS-232 PC/104 module, 0 to 55°C operating temperature

**CA-108-T:** 8-port RS-232 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

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