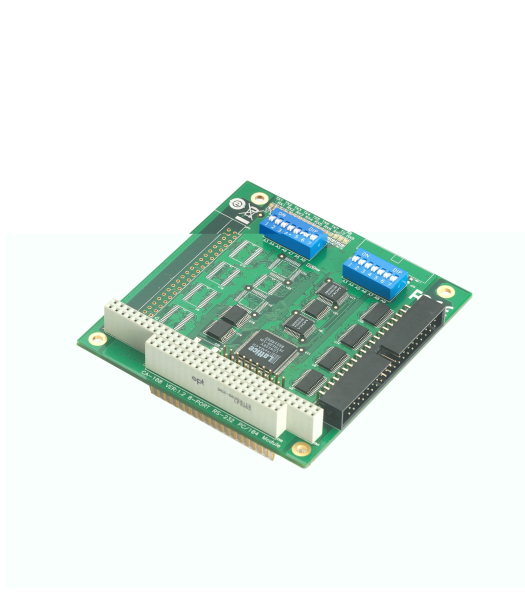


CA-104 Series

4-port RS-232 PC/104 modules



Features and Benefits

- 921.6 kbps maximum baudrate for fast data transmission
- On-chip software flow control
- IRQ and I/O settings are jumper and DIP switch selectable
- Onboard Tx and Rx LED indicators for each port
- Supports Windows CE 5.0/6.0 and Windows XP Embedded operating systems
- Wide-temperature model available for -40 to 85°C environments

Certifications



Introduction

The CA-104 PC/104 modules are reliable, high-performance, multiport serial communication solutions that have 4 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 versatile driver support makes the modules suitable for a wide range of applications.

Specifications

Serial Interface

| | |
|---------------------------|---|
| Comm. Controller | 16C550C or compatible x 4 |
| Bus | PC/104 bus |
| Connector | 40-pin box header |
| DIP Switches | I/O base address, Interrupt vector |
| IRQ | 3, 4, 5, 6, 7, 9, 10, 11, 12, 15 (shared for all ports) |
| FIFO | 64 bytes |
| Max. No. of Boards per PC | 8 |
| No. of Ports | 4 |
| Serial Standards | RS-232 |
| Baudrate | 50 bps to 921.6 kbps |
| Data Bits | 5, 6, 7, 8 |
| Stop Bits | 1, 1.5, 2 |
| Parity | None, Even, Odd, Space, Mark |
| Flow Control | None, RTS/CTS, XON/XOFF |
| Serial Signals | |
| RS-232 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |

Serial Software Features

| | |
|-----------------|--|
| Windows Drivers | DOS, Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded |
| Linux Drivers | Linux kernel 2.4.x, Linux kernel 2.6.x |
| UNIX Drivers | FreeBSD 4.x, QNX 4 |

Power Parameters

| | |
|---------------|----------------|
| Input Current | 210 mA @ 5 VDC |
| Input Voltage | 5 VDC |

Physical Characteristics

| | |
|------------|-----------------------------|
| Dimensions | 90 x 96 mm (3.54 x 3.78 in) |
|------------|-----------------------------|

LED Interface

| | |
|----------------|------------------------------------|
| LED Indicators | Built-in Tx, Rx LEDs for each port |
|----------------|------------------------------------|

Environmental Limits

| | |
|--|---|
| Operating Temperature | CA-104: 0 to 55°C (32 to 131°F) CA-104-T: -40 to 85°C (-40 to 185°F) |
| Storage Temperature (package included) | -40 to 85°C (-40 to 185°F) |
| Ambient Relative Humidity | 5 to 95% (non-condensing) |

Standards and Certifications

| | |
|-----------------------|--|
| EMC | EN 55032/24 |
| EMI | CISPR 32, FCC Part 15B Class A |
| EMS | IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV 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 |
| Environmental Testing | IEC 60068-2-1 IEC 60068-2-2 IEC 60068-2-3 IEC 60068-2-14 |
| Safety | EN 60950-1, UL 60950-1 |
| Vibration | IEC 60068-2-6 |

Declaration

| | |
|---------------|-------------------|
| Green Product | RoHS, CRoHS, WEEE |
|---------------|-------------------|

MTBF

| | |
|-----------|--------------------------|
| Time | 897,459 hrs |
| Standards | Telcordia (Bellcore), GB |

Warranty

| | |
|-----------------|--|
| Warranty Period | 5 years |
| Details | See www.moxa.com/warranty |

Package Contents

| | |
|---------------|---|
| Device | 1 x CA-104 Series PC/104 module |
| Documentation | 1 x document and software CD 1 x quick installation guide 1 x warranty card |

Ordering Information

| Model Name | Serial Standards | No. of Serial Ports | Operating Temp. |
|------------|------------------|---------------------|-----------------|
| CA-104 | RS-232 | 4 | 0 to 55°C |
| CA-104-T | RS-232 | 4 | -40 to 85°C |

Accessories (sold separately)

Cables

| | |
|-----------------|-----------------------------------|
| CBL-F40M25x4-50 | F40 to 4 x DB25 male cable, 50 cm |
| CBL-F40M9x4-50 | F40 to 4 x DB9 male cable, 50 cm |

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