CP-118E-A-I/138E-A-I

8-port 3-in-1, RS-422/485 PCI Express board with 4 kV surge protection and 2 kV electrical isolation



: Overview

The CP-118E-A-I and CP-138E-A-I are smart PCI Express multiport serial boards designed for POS and ATM applications, and for use by industrial automation system manufacturers and system integrators. The CP-118E-A-I and CP-138E-A-I are compatible with all popular operating systems, and each of their 8 serial ports supports data rates

of up to 921.6 kbps and provide full modem control signals, ensuring compatibility with a wide range of serial peripherals. In addition, the CP-118E-A-I and CP-138E-A-I work with PCI Express x1, allowing the boards to be installed in any PCI Express slot.

Intelligent RS-485 for Easy Installation and Troubleshooting (Patent Pending)

Setting up an RS-485 network is relatively straightforward. The challenge comes when the power is turned on and the devices connected to the network start transmitting and receiving data. In most cases, engineers will need to further tune the system by configuring pull high/low resistors and terminators at strategic points along

: Specifications

Hardware

Comm. Controller: 16C550C compatible Bus: PCI Express x1 Connector: DB78 female

Serial Interface

Number of Ports: 8 Serial Standards: CP-118E-A-I: RS-232/422/485 CP-138E-A-I: RS-422/485

Max. No. of Boards per PC: 4 Serial Line Protection

Surge Protection: 4 kV Electrical Isolation: 2 kV

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 Flow Control: RTS/CTS, XON/XOFF the network. Moxa's new Intelligent RS-485 technology supports two essential features to make it easy: (1) One-Click Installation automatically analyzes the network topology and then adjusts terminators and pull high/low resistors. (2) One-Click Troubleshooting tells you what to change to make a deficient network viable.

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

Physical Characteristics

Dimensions: 109.5 x 130 mm (4.31 x 5.11 in)

Driver Support

Windows: Windows 2000/XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64) Linux: Linux 2.4.x, 2.6.x, 3.x Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10 (x86/x64) Note: Please refer to Moxa's website for the latest driver support information.

Environmental Limits

Operating Temperature: 0 to 55°C (32 to 131°F) Storage Temperature: -20 to 85°C (-4 to 185°F) Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

EMC: EN 55022/24 EMI: CISPR 22, FCC Part 15B Class B 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: 1 kV; Signal: 0.5 kV IEC 61000-4-5 Surge: Power: 2 kV; Signal: 4 kV IEC 61000-4-6 CS: 150 kHz to; 80 MHz: 3 V/m; Signal: 3 V/m IEC 61000-4-8 PFMF IEC 61000-4-11

Dimensions

MTBF (mean time between failures) Time: CP-118E-A-I: 390,883 hrs CP-138E-A-I: 221,331 hrs

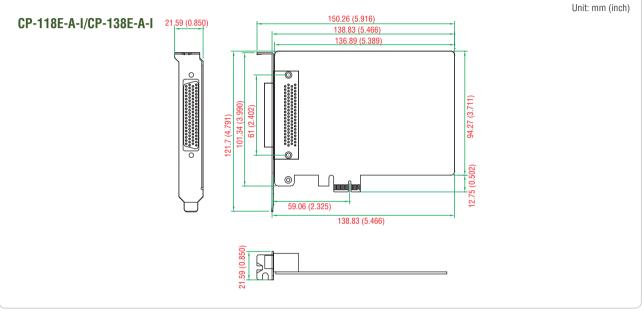
Standard: Telcordia (Bellcore) TR/SR

Power Requirements Input Current:

CP-118E-A-I: 2,356 mA @ 3.3 VDC CP-138E-A-I: 2,356 mA @ 3.3 VDC

Warranty

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



Crdering Information

Available Models

CP-118E-A-I: 8-port RS-232/422/485 PCI Express x1 serial board w/ surge protection and electrical isolation

CP-138E-A-I: 8-port RS-422/485 PCI Express Smart x1 serial board w/ surge protection and electrical isolation

Connection Options (can be purchased separately) **CBL-M68M9x8-100:** SCSI VHDCI 68 to 8 x DB9-M cable, 100 cm **CBL-M68M25x8-100:** SCSI VHDCI 68 to 8 x DB25-M cable, 100 cm

Optional Connectors (choose one per board)

OPT8-M9+: VHDCI 68 to 8 x DB9-M connection box

OPT8B+: VHDCI 68 to 8 x DB25-M connection box

OPT8A+: VHDCI 68 to 8 x DB25-F connection box

OPT8-RJ45+: VHDCI 68 to 8 x RJ45 (8-pin) connection box

OPT8S+: VHDCI 68 to 8 x DB25-F connection box w/ surge protection

CBL-M78M9x8-100 DB9 male

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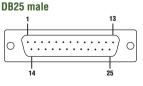


Package Checklist

- 1 CP-118E-A-I or CP-138E-A-I board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

CBL-M78M25x8-100





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