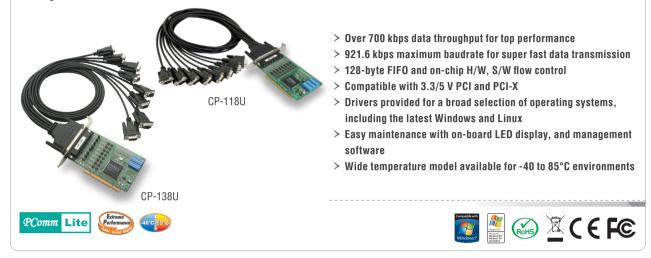
# **CP-118U/138U**

# -8-port RS-232/422/485 Universal PCI serial boards



## **Overview**

The CP-118U and CP-138U are smart, 8-port Universal PCI serial boards designed for POS and ATM applications and for use by industrial automation system manufacturers and system integrators. Both boards are compatible with all major operating systems. In addition, the CP-118U's 8 RS-232/422/485 ports and the CP-138U's

## **Contract Servided for Windows and Linux**

One of Moxa's highest priorities is to provide drivers for all mainstream operating systems. Reliable, well-tested Windows and Linux/Unix drivers are available for use with the CP-118U and CP-138U serial

8 RS-422/485 ports support data rates up to 921.6 kbps and provide full modem control signals to ensure compatibility with a wide range of serial peripherals. The CP-118U and CP-138U support both 3.3 V and 5 V PCI buses, making them suitable for installation in most PC servers.

boards. Other operating systems, such as Windows XP embedded and WEPOS, are also supported to accommodate embedded integration applications.

# : Specifications

#### Hardware

Comm. Controller: MU860 (16C550C compatible) Bus: 32-bit Universal PCI Connector: DB62 female

#### Serial Interface

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

# Max. No. of Boards per PC: 4

#### 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

#### **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:** 82 x 135 mm (3.22 x 5.31 in)

#### **Driver Support**

Windows: 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). DOS. Windows Embedded CE 5.0/6.0. Windows XP Embedded Linux: Linux 2.4.x, 2.6.x, 3.x Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD Note: Please refer to Moxa's website for the latest driver support information. **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 55032/24 EMI: CISPR 32, 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 **MTBF** (mean time between failures) Time: CP-118U: 1,073,385 hrs CP-138U: 1,147,210 hrs

Standard: Telcordia (Bellcore) SR-332

#### **Power Requirements**

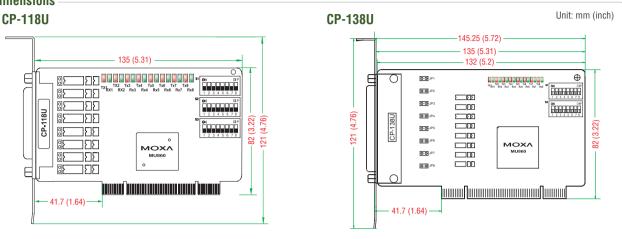
#### Input Current:

CP-118U: 240 mA @ 5 VDC (RS-232); 300 mA @ 5 VDC (RS-422) CP-138U: 135 mA @ 5 VDC (RS-422)

#### Dimensions



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



## **Crdering Information**

#### **Available Models**

**CP-118U:** 8-port RS-232/422/485 Universal PCI serial board, 0 to 55°C operating temperature **CP-138U:** 8-port RS-422/485 Universal PCI serial board, 0 to 55°C operating temperature **CP-118U-T:** 8-port RS-232/422/485 Universal PCI serial board, -40 to 85°C operating temperature **CP-138U-T:** 8-port RS-422/485 Universal PCI serial board, -40 to 85°C operating temperature

**Connection Options** (can be purchased separately)

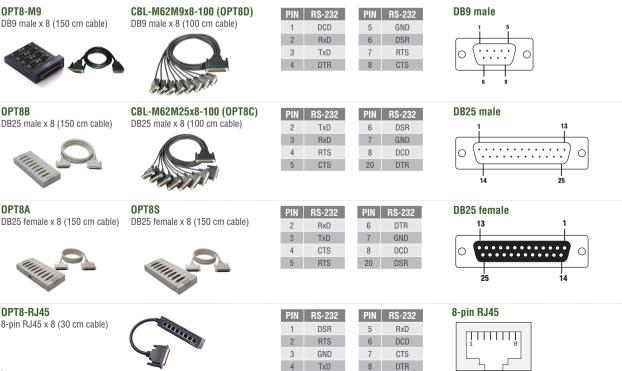
**CBL-M62M9x8-100:** M62 to 8 x DB9-M cable, 100 cm

CBL-M62M25x8-100: M62 to 8 x DB25-M cable, 100 cm

### Optional Connectors (choose one per board)

**OPT8A:** M62 to 8 x DB25-F connection box with 150 cm DB62-M to DB62-F cable **OPT8B:** M62 to 8 x DB25-M connection box with 150 cm DB62-M to DB62-F cable **OPT8S:** M62 to 8 x DB25-F connection box w/ surge protection, with 150 cm DB62-M to DB62-F cable **OPT8.M9:** M62 to 8 x DB9-M connection box with 150 cm DB62-M to DB62-F cable **OPT8.P M5:** M62 to 8 x DB9-M connection box with 150 cm DB62-M to DB62-F cable

OPT8-RJ45: M62 to 8 x RJ45 (8-pin) connection box with 30 cm cable



## Package Checklist

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

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