

CP-168U

8-port RS-232 Universal PCI serial board



- > Over 700 kbps data throughput for top performance
- > 921.6 kbps maximum baudrate for super fast data transmission
- > 128-byte FIFO and on-chip H/W, S/W flow control
- > Choose from a wide range of connection cables and boxes
- > Compatible with 3.3/5 V PCI and PCI-X
- > Drivers provided for a broad selection of operating systems, including the latest Windows and Linux
- > Wide temperature model available for -40 to 85°C environments



Introduction

The CP-168U is a smart, 8-port universal PCI board designed for POS and ATM applications. It is a top choice of industrial automation engineers and system integrators, and supports many different operating systems, including Windows, Linux, and even Unix. In addition, each of the board's 8 RS-232 serial ports supports a

superfast 921.6 kbps baudrate. The CP-168U provides full modem control signals to ensure compatibility with a wide range of serial peripherals, and it works with both 3.3 V and 5 V PCI buses, allowing the board to be installed in virtually any available PC server.

Specifications

Hardware

Comm. Controller: MU860 (16C550C compatible)

Bus: 32-bit Universal PCI

Connector: DB62 female

Serial Interface

Number of Ports: 8

Serial Standards: RS-232

Max. No. of Boards per PC: 4

Serial Line Protection

Electrical Isolation: 500 V with connection box Opt8F (must be purchased separately)

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

Physical Characteristics

Dimensions: 82 x 120 mm (3.22 x 4.72 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

IEC 61000-4-4 EFT: Power: 1 kV

MTBF (mean time between failures)

Time: 280,854 hrs

Standard: Telcordia (Bellcore) TR/SR

Power Requirements

Input Current: 180 mA @ 5 VDC

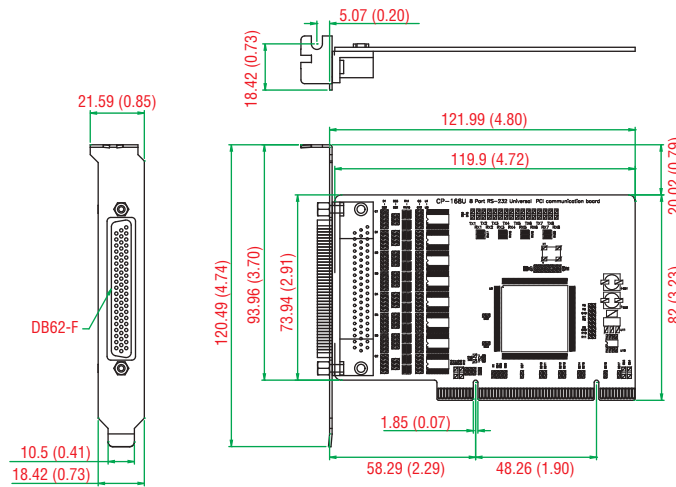
Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

CP-168U: 8-port RS-232 Universal PCI serial board, 0 to 55°C operating temperature
CP-168U-T: 8-port RS-232 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 w/ 150 cm DB62-M to DB62-F cable
OPT8B: M62 to 8 x DB25-M connection box w/ 150 cm DB62-M to DB62-F cable
OPT8S: M62 to 8 x DB25-F connection box w/ surge protection, and 150 cm DB62-M to DB62-F cable
OPT8-M9: M62 to 8 x DB9-M connection box w/ 150 cm DB62-M to DB62-F cable
OPT8-RJ45: M62 to 8 x RJ45 (8-pin) connection box w/ 30 cm cable

Package Checklist

- 1 CP-168U board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

OPT8-M9

DB9 male x 8 (150 cm cable)



CBL-M62M9x8-100 (OPT8D)

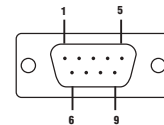
DB9 male x 8 (100 cm cable)



PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR

PIN	RS-232
5	GND
6	DSR
7	RTS
8	CTS

DB9 male



OPT8B

DB25 male x 8 (150 cm cable)



CBL-M62M25x8-100 (OPT8C)

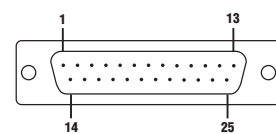
DB25 male x 8 (100 cm cable)



PIN	RS-232
2	TxD
3	RxD
4	RTS
5	CTS

PIN	RS-232
6	DSR
7	GND
8	DCD
20	DTR

DB25 male



OPT8A

DB25 female x 8 (150 cm cable)



OPT8S

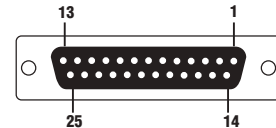
DB25 female x 8 (150 cm cable)



PIN	RS-232
2	RxD
3	TxD
4	CTS
5	RTS

PIN	RS-232
6	DTR
7	GND
8	DCD
20	DSR

DB25 female



OPT8-RJ45

8-pin RJ45 x 8 (30 cm cable)



PIN	RS-232
1	DSR
2	RTS
3	GND
4	TxD

PIN	RS-232
5	RxD
6	DCD
7	CTS
8	DTR

8-pin RJ45

