

CP-168U Series

8-port RS-232 Universal PCI serial board



Features and Benefits

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

Certifications



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 eight RS-232 serial ports supports a fast 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

Serial Interface

Comm. Controller	MU860 (16C550C compatible)
Bus	32-bit Universal PCI
Connector	DB62 female
FIFO	128 bytes
Max. No. of Boards per PC	8
No. of Ports	8
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
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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 R2/2016/2019 (x64), Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux Drivers	Linux kernel 2.4.x, Linux kernel 2.6.x, Linux kernel 3.x, Linux kernel 4.x, Linux kernel 5.x
UNIX Drivers	QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

Power Parameters

Input Current	180 mA @ 5 VDC
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Physical Characteristics

Dimensions	82 x 120 mm (3.22 x 4.72 in)
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LED Interface

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

Operating Temperature	CP-168U: 0 to 55°C (32 to 131°F) CP-168U-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 55032/35
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
International Approval	CP-168U: KC

Declaration

Green Product	RoHS, CRoHS, WEEE
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MTBF

Time	280,854 hrs
Standards	Telcordia (Bellcore) Standard TR/SR

Warranty

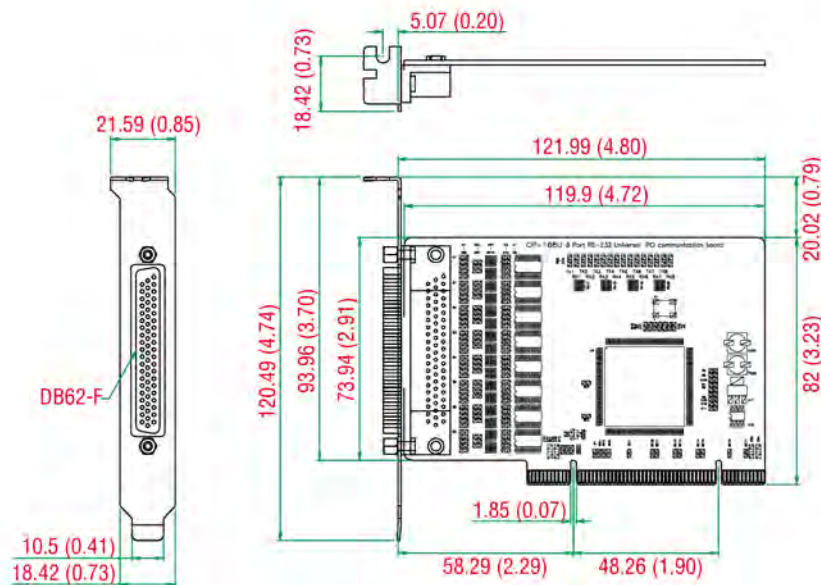
Warranty Period	5 years
Details	See www.moxa.com/warranty

Package Contents

Device	1 x CP-168U Series serial board
Documentation	1 x quick installation guide 1 x substance disclosure table 1 x warranty card

Dimensions

Unit: mm (inch)



Ordering Information

Model Name	Serial Standards	No. of Serial Ports	Operating Temp.
CP-168U	RS-232	8	0 to 55°C
CP-168U-T	RS-232	8	-40 to 85°C

Accessories (sold separately)

Cables

CBL-M62M25x8-100	M62 to 8 x DB25 male serial cable, 1 m
CBL-M62M9x8-100	M62 to 8 x DB9 male serial cable, 1 m

Connection Boxes

OPT8A	M62 to 8 x DB25 female connection box with DB62 male to DB62 female serial cable
OPT8B	M62 to 8 x DB25 male connection box with DB62 male to DB62 female cable, 1.5 m
OPT8S	M62 to 8 x DB25 female connection box with surge protection and a DB62 male to DB62 female cable, 1.5 m
OPT8-M9	M62 to 8 x DB9 male connection box, DB62 male to DB62 female cable, 1.5 m
OPT8-RJ45	M62 to 8 x RJ45 (8-pin) connection box, 30 cm

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