# **CP-168U**

# 8-port RS-232 smart 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 3.3/5V PCI and PCI-X
- > Drivers provided for Windows (Vista, 2003, XP, 2000), WinCE 5.0, Linux, and Unix
- > 15 KV ESD protection on the board

















The certification logos shown here apply to some or all of the products in this section. Please see the Specifications section or Moxa's website for details.

## : Overview

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 super

fast 921.6 Kbps baudrate. The CP-168U provides full modem control signals to ensure compatibility with a wide range of serial peripherals, and works with both 3.3V and 5V 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 Number of Boards: 4 per PC (max.) **Serial Line Protection** ESD Protection: 15 KV on the board

Optical Isolation: 500 V with connector 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 I/O Address: Assigned by BIOS IRQ: Assigned by BIOS

#### Serial Signals

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

# **Driver Support**

Operating Systems: Windows (2000, XP/2003/Vista x86/x64, 9X/ ME/NT), Windows CE 5.0, Windows XP Embedded, DOS, Linux 2.4/2.6, FreeBSD 4/5, QNX 6, SCO Open Server 5/6, UnixWare 7

**Physical Characteristics** 

**Dimensions:** 82 x 120 mm (3.22 x 4.72 in)

# **Environmental Limits**

Operating Temperature: 0 to 55°C (32 to 131°F)

Operating Humidity: 5 to 95% RH

Storage Temperature: -20 to 85°C (-4 to 185°F) **Regulatory Approvals:** EN55022, EN55024, EN61000-3-2, EN61000-3-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8, IEC61000-4-11, FCC

Part 15 Class B

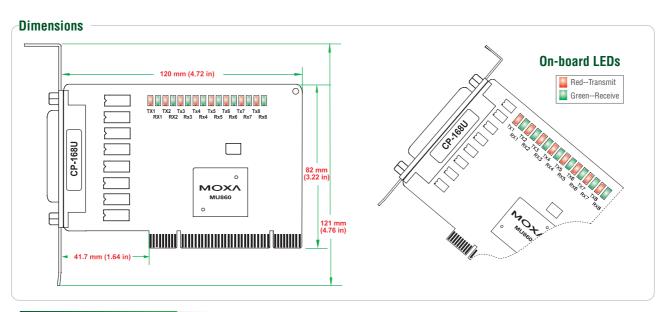
#### **Power Requirements**

Power Consumption: 180 mA @ +5 V

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty



# : Ordering Information

#### **Available Models**

CP-168U: 8-port RS-232 smart Universal PCI serial board

# **Package Checklist**

- CP-168U board
- Standard bracket
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

# Connection Options (can be purchased separately)

#### **OPT8-M9**

DB9 male x 8 (150 cm cable)



# CBL-M62M9x8-100 (OPT8D)

DB9 male x 8 (100 cm cable)



1	DCD
2	RxD
3	TxD
4	DTR

PIN RS-232





### OPT8B

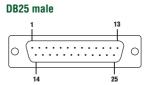
DB25 male x 8 (150 cm cable)





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

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



OPT8K/OPT8I (RS-422/485)

DB25 female x 8 (150 cm cable)

110 or 230 VAC power adaptor

#### OPT8A

DB25 female x 8 (150 cm cable)

DB25 female x 8 (150 cm cable) 25 KV ESD Surge Protection



# OPT8F/Z (RS-422)

DB25 female x 8 (150 cm cable) 110 or 230 VAC power adaptor (115.2 Kbps max. baudrate)



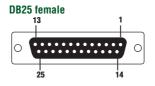
OPT8F with 500 V isolation

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OPT8I with 2 KV isolation

PIN	RS-232	PIN	RS-232
2	RxD	6	DTR
3	TxD	7	GND
4	CTS	8	DCD
5	RTS	20	DSR

PIN	RS-422/RS-485-4w	RS-485-2w
2	RxD+(B)	Data+(B)
3	TxD+(B)	
7	GND	GND
14	RxD-(A)	Data-(A)
16	$T_VD(\Lambda)$	



## **OPT8-RJ45**

8-pin RJ45 x 8 (30 cm cable)



PIN	RS-232		PIN	RS-232
1	DSR		5	RxD
2	RTS		6	DCD
3	GND		7	CTS
4	TxD		8	DTR

