

# CP-168U V2

## 8-port RS-232 Universal PCI Smart Serial Board



### Features

- > Over 700 Kbps data throughput, for top performance
- > Serial communication speed up to 921.6 Kbps
- > 128-byte FIFO and on-chip H/W, S/W flow control
- > Universal PCI compatible with 3.3/5V PCI and PCI-X
- > Various connection cables/boxes for RS-232/422/485
- > Drivers provided for Windows Vista/2003/XP/2000/98/ME, Linux, UNIX
- > On-board 15 KV ESD protection



### Overview

The CP-168U V2 is a Smart Universal PCI Multiport Serial Board designed for POS and ATM applications, and for use by industrial automation system manufacturers and system integrators. The board is compatible with all popular operating systems, and each of its 8 RS-232 serial ports supports data rates up to 921.6 Kbps. The CP-168U

V2 provides full modem control signals, ensuring compatibility with a wide range of serial peripherals. In addition, the CP-168U V2 works with both 3.3V and 5V PCI buses, allowing the board to be installed in virtually any available PC server.

### Specifications

#### Hardware

**Connectors:** Female DB62  
**Comm. Controller:** MU860 (16C550C compatible)

#### Interface

**Bus Interface:** 32-bit Universal PCI  
**Number of Ports:** 8 (only one IRQ required)  
**Max. No. of Boards:** 4

#### Signals

**RS-232:** Tx/D, Rx/D, RTS, CTS, DTR, DSR, DCD, GND

#### Performance

**Baudrate:** 50 bps to 921.6 Kbps

#### Configuration

**Data Bits:** 5, 6, 7, 8

**Stop Bit(s):** 1, 1.5, 2  
**I/O address/IRQ:** BIOS assigned  
**Parity:** None, Even, Odd, Space, Mark  
**Flow Control:** RTS/CTS, XON/XOFF

#### Power and Environment

**Power Requirement:** 180 mA (+5V)  
**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)  
**ESD Protection:** Embedded 15 KV ESD Protection

#### Regulatory Approvals

EN55022 Class B, EN55024, EN6100-3-2, EN61000-3-3, FCC Part 15 Class B

**Warranty:** 5 years

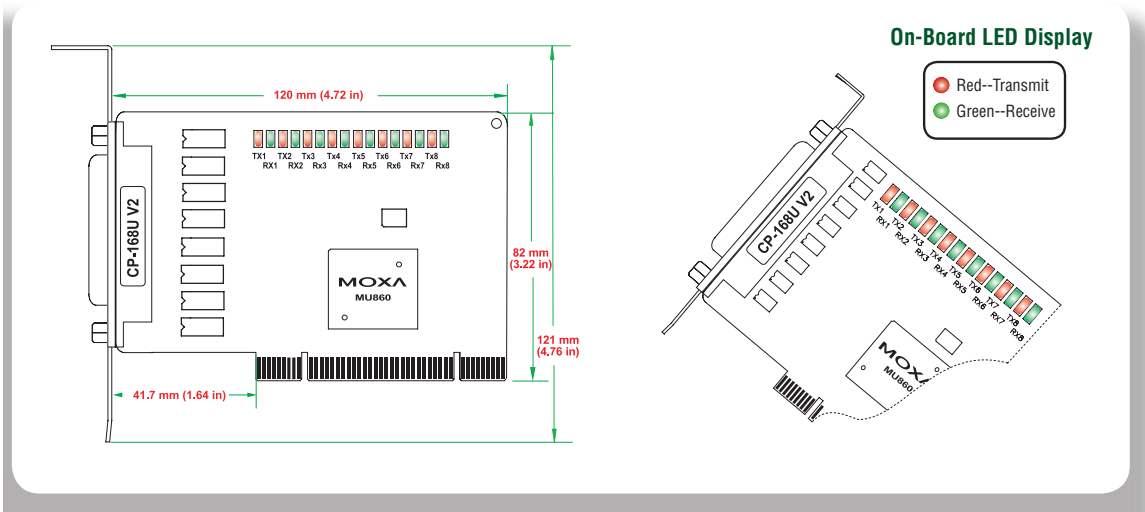
### Ordering Information

**CP-168U V2:** 8-port RS-232 Universal PCI Smart Serial Board

#### Package Checklist

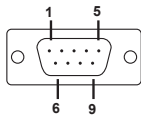
- CP-168U board with standard bracket
- Document & Software CD-ROM
- Quick Installation Guide

## Dimensions (unit = mm)



## Connection Options

### Male DB9



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

### OPT8-M9

Male DB9 x 8, 150 cm Cable

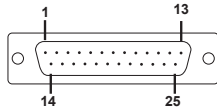


### CBL-M62M9x8-100 (OPT8D)

Male DB9 x 8, 100 cm Cable



### Male DB25



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

### OPT8B

Male DB25 x 8, 150 cm Cable

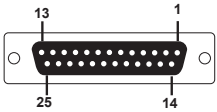


### CBL-M62M25x8-100 (OPT8C)

Male DB25 x 8, 100 cm Cable



### Female DB25



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
2	RxD+(B)
3	TxD+(B)
7	GND
14	RxD-(A)
16	TxD-(A)

PIN	RS-422/ 4-wire RS-485	2-wire RS-485
2	RxD+(B)	Data+(B)
3	TxD+(B)	
7	GND	GND
14	RxD-(A)	Data-(A)
16	TxD-(A)	

### OPT8A

Female DB25 x 8, 150 cm Cable



### OPT8S

Female DB25 x 8, 150 cm Cable  
25 KV ESD Surge Protection



### OPT8F/Z (RS-422)

Female DB25 x 8, 150 cm Cable  
110 or 230 VAC power Adaptor  
(max. speed 115.2 Kbps)



\* OPT8F with 2 KV Isolation

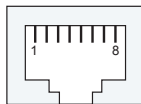
### OPT8K/OPT8I (RS-422/485)

Female DB25 x 8, 150 cm Cable  
110 or 230 VAC power Adaptor



\* OPT8I with 2 KV Isolation

### 8-pin RJ45



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

### OPT8-RJ45

8-pin RJ45 x 8, 30 cm Cable

