



# 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
- Windows 2003/XP/2000/98/ME, Linux, UNIX driver support
- Easy maintenance with on-board LED display and management software
- Single 5 VDC power requirement
- On-board 15 KV ESD protection



### Overview

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. CP-168U V2 is compatible with all popular operating systems, and each of its 8 RS-232 serial ports supports data rates of up to

921.6 Kbps, and provides full modem control signals, ensuring compatibility with a wide range of serial peripherals. In addition, 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:** MOXA UART (16C550C compatible)

#### Interface

**Bus Interface:** 32-bit Universal PCI

**Number of Ports:** 8

**Max. No. of Boards:** 4 (only one IRQ required)

**Signals:** TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

#### Performance

**Baud Rate:** 50 bps to 921.6 Kbps

#### Configuration

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

**Stop Bits:** 1, 1.5, 2

**I/O address/IRQ:** BIOS assigned

**Parity:** None, Even, Odd, Space, Mark

**Flow Control:** RTS/CTS, XON/XOFF

#### Operating Systems:

Windows NT/2000/XP/2003, Windows95/98/ME, Linux 2.4/2.6 (Red Hat/SuSe...), FreeBSD, SCO OpenServer, SCO Unixware 7, SCO Unixware 2.1, Windows XP Embedded, QNX, DOS

#### Power and Environment

**Power Requirement:** 180 mA (+5V)

**Operating Temperature:** 0 to 55°C

**Operating Humidity:** 5 to 95% RH

**Storage Temperature:** -20 to 85°C

**Dimensions (W x D):** 120 x 82 mm (4.72 x 3.23 in)

**Surge Protection:** Embedded 15 KV ESD Surge Protection

**Regulatory Approvals:** CE Class B, FCC Class B

**Warranty:** 5 years

### Ordering Information

#### CP-168U V2

8-port RS-232 Universal PCI Smart MSB

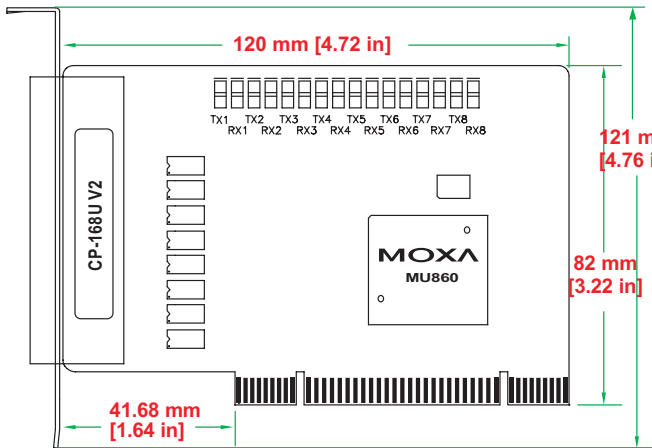
#### All items include:

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

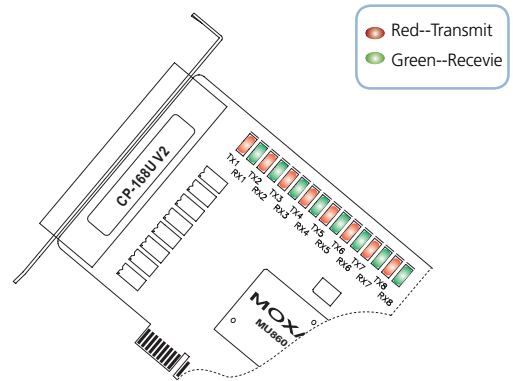
#### Optional Connectors (choose one per board)

\* Refer to Page 6-15

## Dimensions

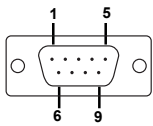


## On-Board LED Display



## Connection Options

### Male DB9



PIN	DB9(M)	PIN	DB9(M)
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

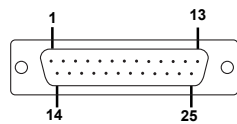


### CBL-M62M9 x 8-100 (OPT8D)

Male DB9 x 8, 100 cm Cable



### Male DB25



PIN	DB25(M)	PIN	DB25(M)
2	TxD	6	DSR
3	RxD	7	GND
4	RTS	8	DCD
5	CTS	20	DTR

### OPT8B

Male DB25 x 8

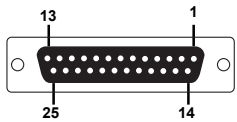


### CBL-M62M25 x 8-100 (OPT8C)

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

### 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  
110V or 230V AC power Adaptor  
(max. speed 115.2K bps)

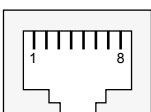


### OPT8K (RS-422/485)

Female DB25 x 8, 150 cm Cable  
110V or 230V AC power Adaptor  
(max. speed 230.4K bps)



### 8-Pin RJ45



PIN	RJ45	PIN	RJ45
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

