



# CP-118U

## 8-Port RS-232/422/485 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-118U 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-118U is compatible with all popular operating systems, and each of its 8 RS-232/422/485 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-118U 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

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

**RS-422:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND

**4w RS-485:** TxD+(B), TxD-(A), RxD+(B), RxD-(A), GND

**2w RS-485:** Data+(B), Data-(A), 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, Windows 95/98/ME, Linux 2.4/2.6 (Red Hat/SuSe...), FreeBSD 4.x, SCO OpenServer, SCO Unixware 7, SCO Unixware 2.1, Windows XP Embedded, DOS

#### Power and Environment

##### Power Requirement:

240 mA (+5V, RS-232), 300 mA (+5V, RS-422)

**Operating Temperature:** 0 to 55°C

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

**Storage Temperature:** -20 to 85°C

**Dimensions (W x D):** 135 x 82 mm ( 5.31 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-118U** 8-port RS-232/422/485 Universal PCI Smart MSB

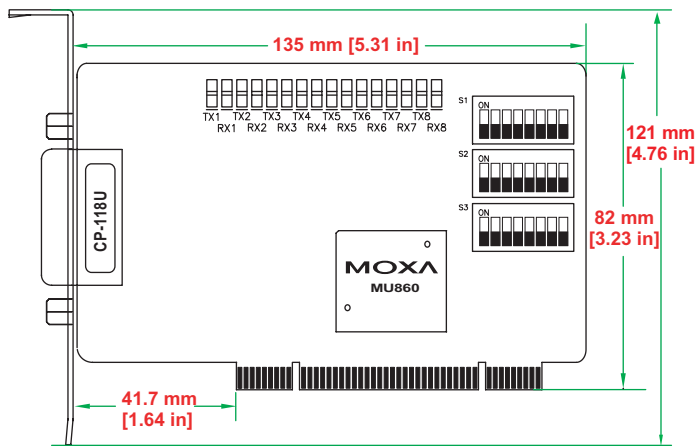
#### All items include:

- CP-118U board with standard bracket
- Documentation & Software CD-ROM
- Quick Installation Guide

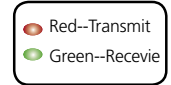
#### Optional Connectors (choose one per board)

\*Refer to Page 6-13

## Dimensions



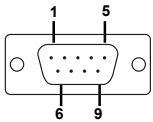
### On-Board LED Display



Interface	S1	S2	S3
RS-232	---	---	ON
RS-422	---	---	OFF
4-wire RS-485	ON	OFF	OFF
2-wire RS-485	OFF	OFF	OFF

## Connection Options

### Male DB9



PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
1	DCD	TxD-(A)	---
2	RxD	TxD+(B)	---
3	TxD	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	Data-(A)
5	GND	GND	GND
6	DSR	---	---
7	RTS	---	---
8	CTS	---	---

### OPT8-M9

Male DB9 x 8, 150 cm Cable

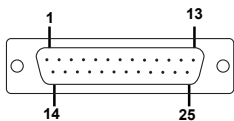


### CBL-M62M9 x 8-100 (OPT8D)

Male DB9 x 8, 100 cm Cable



### Male DB25



PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
2	TxD	RxD+(B)	Data+(B)
3	RxD	TxD+(B)	---
4	RTS	---	---
5	CTS	---	---
6	DSR	---	---
7	GND	GND	GND
8	DCD	TxD-(A)	---
20	DTR	RxD-(A)	Data-(A)

### OPT8B

Male DB25 x 8

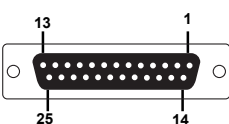


### CBL-M62M25 x 8-100 (OPT8C)

Male DB25 x 8, 100 cm Cable



### Female DB25



PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
2	RxD	TxD+(B)	---
3	TxD	RxD+(B)	Data+(B)
4	CTS	---	---
5	RTS	---	---
6	DTR	RxD-(A)	Data-(A)
7	GND	GND	GND
8	DCD	TxD-(A)	---
20	DSR	---	---

### OPT8A

Female DB25 x 8, 150 cm Cable

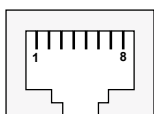


### OPT8S

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



### 8-Pin RJ45



PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
1	DSR	---	---
2	RTS	---	---
3	GND	GND	GND
4	TxD	RxD+(B)	Data+(B)
5	RxD	TxD+(B)	---
6	DCD	TxD-(A)	---
7	CTS	---	---
8	DTR	RxD-(A)	Data-(A)

### OPT8-RJ45

8-pin RJ45 x 8, 30 cm Cable

