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**

CE FC Extreme Performance PComm Lite

▌ 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

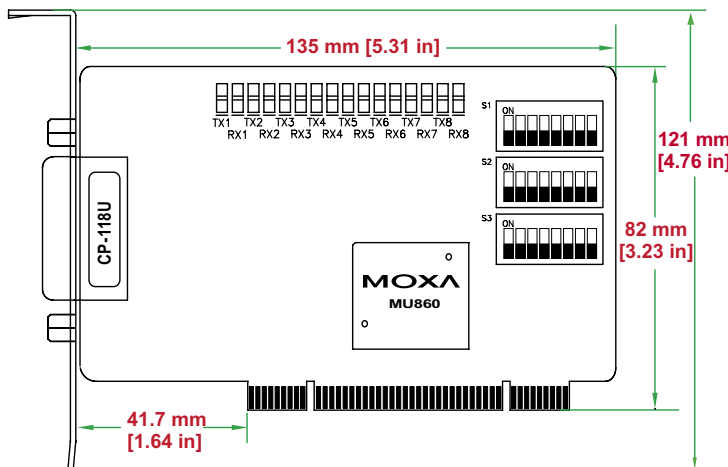**CP-118U** 8-port RS-232/422/485 Universal PCI Smart MSB
All items include:
- CP-118U board with standard bracket
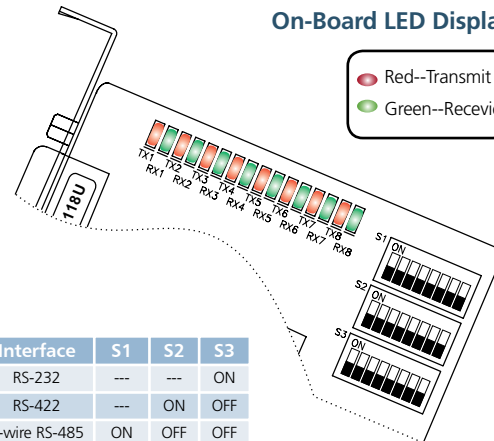- Documentation & Software CD-ROM
- Quick Installation Guide

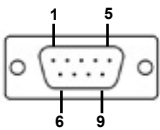**Optional Connectors (choose one per board)**
*Refer to Page 6-13

◤ Dimensions

On-Board LED Display

- Red--Transmit
- Green--Recevie

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

◤ Connection Options

CP-118U

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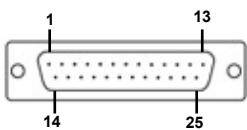
PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
2	TxD	RxD+(B)	Data+(B)
3	RxD	TxD+(B)	---
4	RTS	---	---
5	CTS	---	---
6	DSR	---	---
7	GND	GND	GND
8	DCD	TxD-(A)	---
20	DTR	RxD-(A)	Data-(A)

OPT8B
Male DB25 x 8

CBL-M62M25 x 8-100 (OPT8C)
Male DB25 x 8, 100 cm Cable

Female DB25
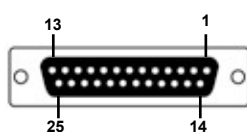
PIN	RS-232	RS-422/4-wire RS-485	2-wire RS-485
2	RxD	TxD+(B)	---
3	TxD	RxD+(B)	Data+(B)
4	CTS	---	---
5	RTS	---	---
6	DTR	RxD-(A)	Data-(A)
7	GND	GND	GND
8	DCD	TxD-(A)	---
20	DSR	---	---

OPT8A
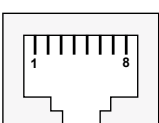Female DB25 x 8, 150 cm Cable

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