

C218Turbo Series

8-port RS-232 intelligent Universal PCI serial boards



PCComm Lite

- > Effectively reduces CPU loading
- > Drivers provided for a variety of operating systems (Windows, Linux, and Unix)
- > Choose from a wide range of connection cables and boxes
- > 921.6 kbps maximum baudrate for super fast data transmission
- > Provides up to 512 KB of embedded memory
- > High data throughput for great performance



Introduction

The 8-port C218Turbo RS-232 universal PCI board comes with an ASIC, RISC processor, and large I/O buffer to provide a sustained high throughput on all 8 ports simultaneously. Drivers are available for Windows, Linux, and Unix, making the boards suitable for a wide

range of applications. Models are available for PCI and PCI-X buses to provide reliable, high performance solutions for multiport serial communications.

Specifications

Hardware

Comm. Controller: 16C550C or compatible x 8

Bus: 32-bit Universal PCI

Connector: DB62 female

Processor: TMS320BC203-57 RISC CPU

Memory: 512 KB

Serial Interface

Number of Ports: 8

Serial Standards: RS-232

Max. No. of Boards per PC: 4

Serial Line Protection

ESD Protection: 25 kV per port with connection box Opt8S (must be purchased separately)

Optical Isolation: 500 V with connection box 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

Serial Signals

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

Operating Systems

Windows Real COM Drivers: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded

Fixed TTY Drivers: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

Linux Real TTY Drivers: Linux 2.4.x, 2.6.x, 3.x

Note: Please refer to Moxa's website for the latest driver support information.

Physical Characteristics

Dimensions: 105 x 180 mm (4.13 x 7.09 in)

Environmental Limits

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

Storage Temperature: -20 to 85°C (-4 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Altitude: Up to 2000 m

Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

Standards and Certifications

EMC: CE, FCC

EMI: EN 61000-3-2, EN 61000-3-3, EN 61000-6-1, EN 61000-6-3, FCC Part 15 Subpart B Class A

EMS: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11 (DIPS)

Green Product: RoHS, CRoHS, WEEE

MTBF (mean time between failures)

Time: 303,325 hrs

Database: MIL-HDBK-217F, GB 25°C

Power Requirements

Power Consumption: 530 mA max. @ +5 V, 110 mA max. @ +12 V, 35 mA max. @ -12 V

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

Ordering Information

Available Models

C218Turbo/PCI: 8-port RS-232 intelligent Universal PCI serial board

Package Checklist

- 1 C218Turbo/PCI board
- Documentation 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

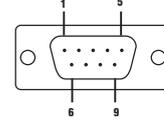
DB9 male x 8 (100 cm cable)



PIN	RS-232
1	DCD
2	RxD
3	TxD
4	DTR

PIN	RS-232
5	GND
6	DSR
7	RTS
8	CTS

DB9 male



OPT8B

DB25 male x 8 (150 cm cable)



CBL-M62M25x8-100

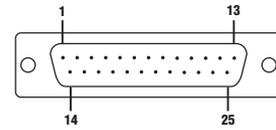
DB25 male x 8 (100 cm cable)



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

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

DB25 male



OPT8A

DB25 female x 8 (150 cm cable)



OPT8S

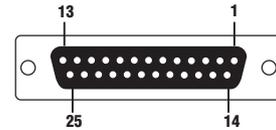
DB25 female x 8 (150 cm cable)
25 kV ESD Surge Protection



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

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

DB25 female



OPT8-RJ45

8-pin RJ45 x 8 (30 cm cable)



PIN	RS-232
1	DSR
2	RTS
3	GND
4	TxD

PIN	RS-232
5	RxD
6	DCD
7	CTS
8	DTR

8-pin RJ45

