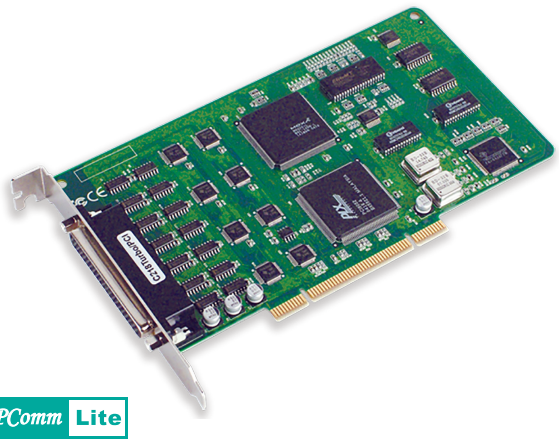
C218Turbo Series

8-port RS-232 intelligent Universal PCI serial boards



- 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

PComm Lite

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

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

Physical Characteristics

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

Driver Support

Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1/10 (x86/x64), Windows 2008 R2/2012/2012 R2/2016 (x64), DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded
Linux: Linux 2.4.x, 2.6.x, 3.x
Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD
Note: Please refer to Moxa's website for the latest driver support information.

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)

Standards and Certifications

EMC: EN 55032/24
EMI: CISPR 32, FCC Part 15B Class B
EMS:
IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV
IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m
IEC 61000-4-4 EFT: Power: 1 kV
IEC 61000-4-5 Surge: Power: 2 kV
IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m
IEC 61000-4-8 PFMF
IEC 61000-4-11

MTBF (mean time between failures)

Time: 303,325 hrs
Standard: MIL-HDBK-217F

Power Requirements

Input Current:
530 mA @ +5 VDC
110 mA @ +12 VDC
35 mA @ -12 VDC

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

Connection Options (can be purchased separately)

CBL-M62M9x8-100: M62 to 8 x DB9-M cable, 100 cm
CBL-M62M25x8-100: M62 to 8 x DB25-M cable, 100 cm

Optional Connectors (choose one per board)

OPT8A: M62 to 8 x DB25-F connection box w/ 150 cm DB62-M to DB62-F cable
OPT8B: M62 to 8 x DB25-M connection box w/ 150 cm DB62-M to DB62-F cable
OPT8S: M62 to 8 x DB25-F connection box w/ surge protection, and 150 cm DB62-M to DB62-F cable
OPT8-M9: M62 to 8 x DB9-M connection box w/ 150 cm DB62-M to DB62-F cable
OPT8-RJ45: M62 to 8 x RJ45 (8-pin) connection box w/ 30 cm cable

Package Checklist

- 1 C218Turbo/PCI board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card

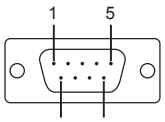
OPT8-M9
DB9 male x 8 (150 cm cable)

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



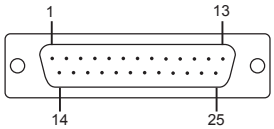
OPT8B
DB25 male x 8 (150 cm cable)

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



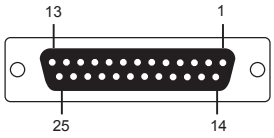
OPT8A
DB25 female x 8 (150 cm cable)

OPT8S
DB25 female x 8 (150 cm cable)

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