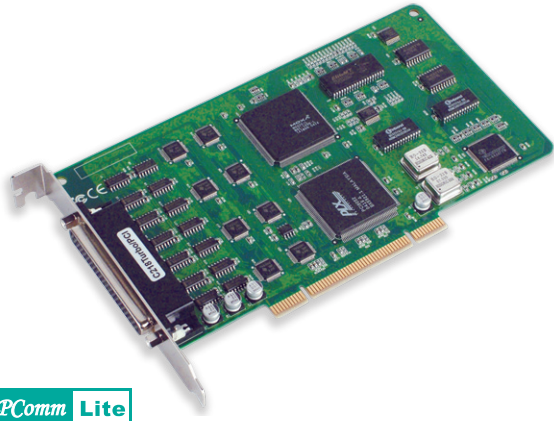


# C218Turbo Series

## 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 (RS-422/485 with optional accessory)

**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

#### Driver Support

**Operating Systems:** Windows (2012 x64, 8/7/XP/2003/Vista/2008 x86/x64, 2000, 9X/ME/NT), Windows CE 5.0/6.0, Windows XP Embedded, DOS, Linux 2.4.x, Linux 2.6.x, Linux 3.0.x, FreeBSD 4/5, QNX 6, SCO OpenServer 5/6, UnixWare 7, Solaris 10 x86/x64

*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](http://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)

### 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 (OPT8D)

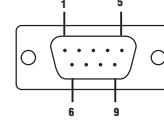
DB9 male x 8 (100 cm cable)



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 (OPT8C)

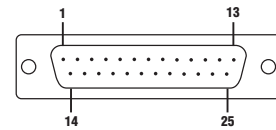
DB25 male x 8 (100 cm cable)



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

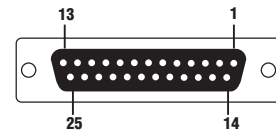
DB25 female x 8 (150 cm cable)  
25 KV ESD Surge Protection



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

