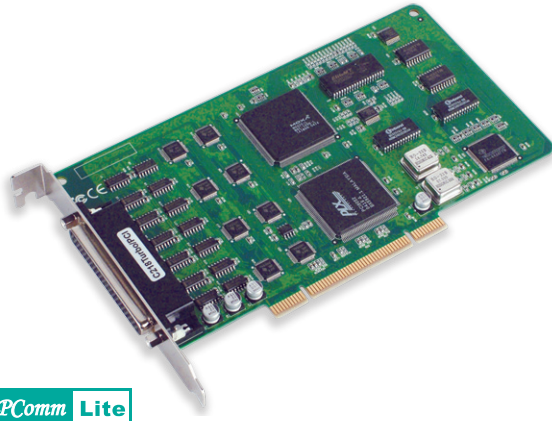


# C218Turbo Series

## 8-port RS-232 intelligent Universal PCI serial boards



PComm 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

**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 (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 55022/24  
**EMI:** CISPR 22, 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](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)

**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

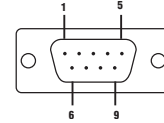
DB9 male x 8 (100 cm cable)



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

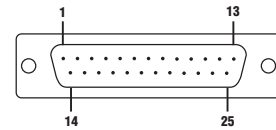
DB25 male x 8 (100 cm cable)



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

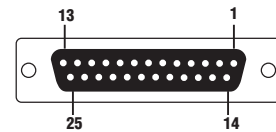
DB25 female x 8 (150 cm cable)



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

