C218Turbo Series

8-port RS-232 intelligent Universal PCI and ISA serial boards

C218Turbo/PCI

C218Turbo

> 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

The certification logos shown here apply to some or all of the products in this section. For details, see "Regulatory Approvals" under "Specifications" below.

: Overview

The 8-port C218Turbo RS-232 universal PCI and ISA boards come 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, PCI-X, and ISA buses to provide reliable, high performance solutions for multiport serial communications.

: Specifications

Hardware

Comm. Controller: 16C550C or compatible x 8
Bus:
C218Turbo/PCI: 32-bit Universal PCI
C218Turbo: 16-bit ISA
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 (2000, XP/2003/Vista/2008 x86/x64, 9X/ME/NT), DOS, Linux 2.4, Linux 2.6 (x86/x64), SCO Open Server 5/6, UnixWare 7, QNX 4/6

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)
Operating Humidity: 5 to 95% RH
Storage Temperature: -20 to 85°C (-4 to 185°F)

Regulatory Approvals

FCC: Part 15 Class A
EMS: EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11 (DIPS)

Power Requirements

Power Consumption:
C218Turbo/PCI: 530 mA max. @ +5 V, 110 mA max. @ +12 V, 35 mA max. @ -12 V
C218Turbo: 400 mA max. @ +5 V, 100 mA max. @ +12 V, 60 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
C218Turbo: 8-port RS-232 intelligent ISA serial board

Package Checklist

- C218Turbo/PCI or C218Turbo board
- Document and Software CD
- Quick Installation Guide (printed)
- Warranty Card

Connection Options (can be purchased separately)

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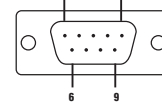DB9 male x 8 (150 cm cable)

CBL-M62M9x8-100 (OPT8D)
DB9 male x 8 (100 cm cable)

PIN	RS-232	PIN	RS-232
1	DCD	5	GND
2	RxD	6	DSR
3	TxD	7	RTS
4	DTR	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	PIN	RS-232
2	TxD	6	DSR
3	RxD	7	GND
4	RTS	8	DCD
5	CTS	20	DTR

DB25 male
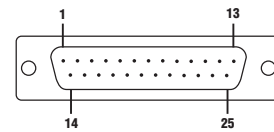
OPT8A
DB25 female x 8 (150 cm cable)

OPT8S
DB25 female x 8 (150 cm cable)
25 KV ESD Surge Protection

OPT8F/Z (RS-422)
DB25 female x 8 (150 cm cable)
110 or 230 VAC power adaptor
(115.2 Kbps max. baudrate)

OPT8F with 500 V isolation

OPT8K (RS-422/485)
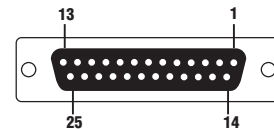DB25 female x 8 (150 cm cable)
110 or 230 VAC power adaptor

PIN	RS-232	PIN	RS-232
2	RxD	6	DTR
3	TxD	7	GND
4	CTS	8	DCD
5	RTS	20	DSR

PIN	RS-422/RS-485-4w	RS-485-2w
2	RxD+(B)	Data+(B)
3	TxD+(B)	---
7	GND	GND
14	RxD-(A)	Data-(A)
16	TxD-(A)	---

DB25 female

OPT8-RJ45
8-pin RJ45 x 8 (30 cm cable)

PIN	RS-232	PIN	RS-232
1	DSR	5	RxD
2	RTS	6	DCD
3	GND	7	CTS
4	TxD	8	DTR

8-pin RJ45