C218Turbo Series

8-port Intelligent RS-232 Universal PCI, ISA Boards

C218Turbo/PCI

C218Turbo
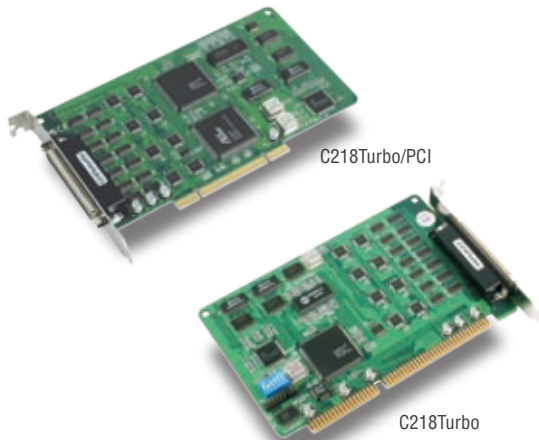
Features

> 8-port RS-232 intelligent communication board
> Effectively reduces CPU loading
> Versatile OS driver support
> Various connection options
> Data transmission speed up to 921.6 Kbps
> Embedded memory up to 512 KB
> High throughput for great performance

Overview

The C218Turbo Series allows you to install additional RS-232 serial communication ports on your PC by providing 8 serial ports per board for connecting all types of serial devices. With its additional ASIC, RISC processor and large I/O buffer design, the C218Turbo Series can maintain a sustained high throughput on all eight ports simultaneously, while occupying only a small part of the host's processor time. The boards' versatile OS driver support truly fulfills the needs of our customers' varied applications. This product is available for use on either a PCI, PCI-X, or ISA bus, with all types offering a reliable, high performance solution for serial multiport communications.

Specifications

Hardware

Processor: TMS320BC52-40 RISC CPU

I/O controller: 16C550C or compatible x 8

Memory: 512 KB

Interface

Bus: 32-bit Universal PCI or 16-bit ISA

Max. No. of ports: 32 (4 boards)

Performance

Baudrate: 50 bps to 921.6 Kbps

Configuration

Parity: None, Even, Odd, Space, Mark

Data bits: 5, 6, 7, 8

IRQ: ISA: 2(9), 3, 4, 5, 7, 10, 11 (Default), 12, 15
　　　UPCI: BIOS assigned

Power and Environment

Power requirements:

C218Turbo/PCI: 530 mA max. (+5V), 110 mA max. (+12V)
　　　　　　　35 mA max. (-12V)

C218Turbo: 400 mA max. (+5V), 100 mA max. (+12V)
　　　　　　60 mA max. (-12V)

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)

Dimensions

C218Turbo/PCI: 180 x 105 mm (W x D)
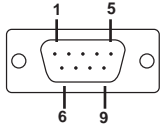
C218Turbo: 170 x 115 mm (W x D)

Regulatory Approvals

EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3, FCC Part 15 Class A

Warranty: 5 years

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Multiport Serial Boards

: Connection Options

Male DB9

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

OPT8-M9
Male DB9 x 8, 150 cm Cable

CBL-M62M9x8-100 (OPT8D)
Male DB9 x 8, 100 cm Cable

Male DB25
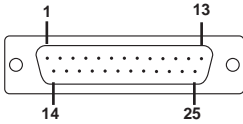
PIN	RS-232	PIN	RS-232
2	TxD	6	DSR
3	RxD	7	GND
4	RTS	8	DCD
5	CTS	20	DTR

OPT8B
Male DB25 x 8, 150 cm Cable

CBL-M62M25x8-100 (OPT8C)
Male DB25 x 8, 100 cm Cable

Female DB25
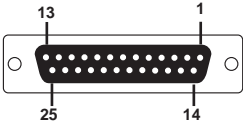
PIN	RS-232	PIN	RS-232
2	RxD	6	DTR
3	TxD	7	GND
4	CTS	8	DCD
5	RTS	20	DSR

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

PIN	2-wire RS-485
2	Data+(B)
7	GND
14	Data-(A)

OPT8A
Female DB25 x 8, 150 cm Cable

OPT8S
Female DB25 x 8, 150 cm Cable
25 KV ESD Surge Protection

OPT8F/Z (RS-422)
Female DB25 x 8, 150 cm Cable
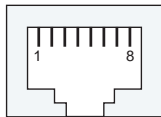110 or 230 VAC power Adaptor
(max. speed 115.2K bps)

OPT8K/OPT8I (RS-422/485)
Female DB25 x 8, 150 cm Cable
110 or 230 VAC power Adaptor

* OPT8 with 2 KV Isolation

* OPT8I with 2 KV Isolation

8-Pin RJ45

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

OPT8-RJ45
8-pin RJ45 x 8, 30 cm Cable

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Multiport Serial Boards

: Ordering Information

C218Turbo/PCI: Universal PCI bus, 8-port intelligent serial board
C218Turbo: ISA bus, 8-port intelligent serial board

Optional Accessories (choose one per board)
*Refer to the Connection Options shown above.

Package Checklist
• C218Turbo/PCI or C218Turbo board with standard bracket
• Document & Software CD-ROM
• Quick Installation Guide