



Model C218TURBO | PCI
8-Port Intelligent PCI Card
Highest Performance Serial I/O Solution

Overview

MOXA C218Turbo series is specifically designed for small but performance demanding applications. With its state-of-the-art ASIC (Application Specific Integrated Circuit), on-board RISC processor (TI TMS320), and large I/O buffer (512 KB), the C218Turbo is a world class I/O serial board. It can maintain a sustained 230.4 Kbps throughput on all eight ports simultaneously while only occupying 5% of the host's processor time*, freeing up more host resources for other tasks. This feature is particularly applicable to fast response demanding industrial control applications, and high speed telecommunication applications.

The benchmark was set using the Equinox ComTach program on a Pentium-233 platform running Windows NT 4.0.

Features

- On board RISC-based processor
- Large I/O buffer (512 KB)
- Delivers the fastest data transmission available, with speeds up to 921.6 Kbps
- Sustained 230 Kbps throughput on all 8 ports simultaneously
- Low repair rate with ASIC design
- Available with optical isolation and surge protection as options
- Works perfectly with all major operating systems

Benefits

- Highest performance to meet all speed-demanding and data intensive communication applications
- Intelligent on-board processor takes a significant load off the host CPU
- Large on-board buffer for high-performance communication
- Compact design size—ideal for high performance, server-based systems

Applications

- Critical industrial control
- Response demanding monitoring systems
- Embedded industrial machines
- Small Internet/Intranet communication server
- High-speed modem/ISDN connectivity
- PC-based routers

International Headquarters:

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Specifications

Hardware

Processor	TMS320BC203-57 RISC CPU
I/O controller	16C550C or compatible x 8
Memory	512 KB

Interface

Bus	PCI ver. 2.1 (32 bit)
Serial	RS-232, RS-422/485
No. of ports	8

Performance

Speed	50 bps – 921.6 Kbps
Max. no. of ports	32 (4 boards)

Configuration

Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	PCI: assigned by BIOS

OS Supported

Windows XP, Windows 2000, Windows NT, Windows 95/98/ME, DOS, AT&T UNIX SVR4.2, MITUX SVR4.2, Unix Ware SVR4.2, Unix Ware7 SVR5, SCO Open Server, SCO UNIX, SCO XENIX, Linux 2.0.x (Intel x86), Linux 2.0.x (Alpha), Linux 2.2.x (Intel x86), Linux 2.2.x (Alpha), Linux 2.4.x (Intel x86), QNX 4.2.x

Power and Environment

Power Requirements	460 mA max.(+5V), 100 mA max.(+12V), 60 mA max.(-12V)
Operating Temperature	32 – 131°F (0 – 55°C)
Operating Humidity	5 – 95%RH
Storage Temperature	-4 – 203°F (-20 – 85°C)
Dimensions	7.1w x 4.1d in (18.0 x 10.5 cm)
Regulatory Approvals	FCC, CE

If you need a product with optical isolation, please see the Optional Connectors List below for more information.

Model:

Description:

C218TURBO/PCI PCI Bus, 8-port Intelligent Serial Board

Octopus Cables for MOXA 8-port PCI to Serial Cards

OPT8C.....	3.4 ft Cable, DB62 to 8 DB25 Male Connectors
OPT8D.....	3.4 ft Cable, DB62 to 8 DB9 Male Connectors

8-Port Connection, Converter and Protection Boxes for MOXA PCI to Serial Cards

OPT8A.....	RS-232 4.9 ft Cable to 8 DB25 Female Connectors
OPT8B.....	RS-232 4.9 ft Cable to 8 DB25 Male Connectors
OPT8S.....	RS-232 4.9 ft Cable to 8 DB25 Female Connectors, Surge Protection
OPT8F.....	RS-422 4.9 ft Cable to 8 DB25 Female Connectors, Optically Isolated
OPT8Z.....	RS-422 4.9 ft Cable to 8 DB25 Female Connectors
OPT8J.....	RS-422/485 4.9 ft Cable to 8 DB25 Female Connectors

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