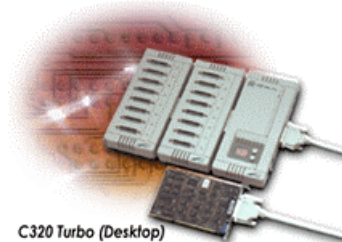
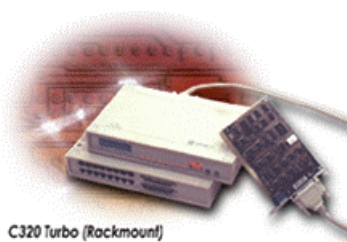


Intellio C320 Turbo Multiport Controller

Flexible Serial Connectivity for Data Communication



The C320 Turbo is an expandable intelligent multi-serial communication controller which is available in 8, 16, 24 and 32-port configurations. The C320 Turbo complies to the ISA and is also compatible with EISA spec. With its 40MHz RISC processor and 512K bytes of RAM, together with the MoxaSoft, a suite of software drivers/tools of MOXA multiport board, the intelligent C320 Turbo acts as a front end I/O processor, relieving the workload of the host computer. Four C320 Turbo Multiport Controllers can be installed in a single host computer, providing up to 128 serial communication channels.

The C320 Turbo is ideal for remote access services (RAS), multiuser systems, POS system, multipoint data acquisitions, BBS systems, office and factory automation and other multiple serial I/O applications. Terminals, modems, bar code readers, plotters, and other asynchronous serial peripherals are all supported. The C320 Turbo is best suited for applications requiring a flexible solution to high-speed multipoint serial communication and rackmount needs.

Hardware Features

The C320 Turbo Multiport Controller family consists of an intelligent Control Board that resides in the host computer, and flexible external modules. In this family, there are two models for your choice. One is for rackmount, and it includes one Basic Module and 1 to 3 Extensive Modules. The other is for desktop, and it includes one CPU Module and 1 to 4 UART Modules. As your business grows, you can expand your system in 8-port increments by simply adding more external modules (Extensive Module or UART Module).

- **Control Board**

The C320 Turbo Control Board resides in the host computer with an on-board RISC processor managing I/O traffic. The Control Board and external multiport modules communicate with each other via a high speed RS-422 synchronous interface over a standard 2-meter cable. However, you could extend the distance by an optional Long Range Extension Kit which allows the external multiport modules be located as far as 100 meters from the host. This dramatically simplify the cable layout for remote devices without sacrificing performance.

- **Basic Module (Rackmount)**

The Basic Module, having its own RISC processor that works with the Control Board, provides 8 or 16 serial ports with RJ45 connectors. Equipped with high speed TI550C communication controller, the Basic Module supports transfer rate of up to 460.8K bps. The Basic Module comes with a rackmount kit and is easy to be installed in an industrial standard 19-inch rack cabinet. The front panel of the Basic Module shows the self-test status and allows you to monitor individual port activity. More serial ports can be acquired to the system by adding Extensive Module(s).

- **Extensive Module (Rackmount)**

The Extensive Module provides 8 or 16 serial ports with RJ45 connectors. It is used when more ports are needed for the system. Equipped with high speed UARTs (TI550C), the Extensive Module supports transfer rate of up to 460.8K bps. Rackmount kit is supplied.

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	http://www.sphinxconnect.com	e-mail : mail@sphinxconnect.com		

Intellio C320 Turbo Multiport Controller - Fortsetzung

- **CPU Module (Desktop)**
The CPU Module also has its own RISC processor that works with the Control Board to reduce host CPU overhead. This double CPU architecture can raise the performance to highest degree. The upside panel of the CPU Module displays the power-on self-test status and allows you to monitor individual port activity for easy diagnostics. This is a real convenience when the workgroup is far from the host computer.
- **UART Module (Desktop)**
To improve the overall performance, each UART Module is equipped with an efficient serial communication controller that allows transfer rates of 460.8K bps per port. The UART Module is available with RS-232 or RS-422 interface, female or male DB25 connectors. RS-232 interface can be connected to dial-up or leased line async modem. RS-422 interface can be connected to terminals. Each port can act as standard TTY devices under UNIX.

Software Features

It is important to have smart firmware on the intelligent board to be able to provide optimum system performance. This relieves the host CPU from all device interrupt handling, performs "cooked" data processing and handles all hardware and software flow control.

- OS supported: Windows NT, Windows 95, Windows 3.x, DOS, UNIX, Linux, OS/2

Specifications

Control Board

- 40MHz TMS320BC52 RISC processor
- 512K bytes dual-ported RAM with 16K memory window
- IRQ: 2, 3, 4, 5, 7, 10, 11, 12, 15
- ISA bus (EISA compatible)
- Max. 4 Control Board per system
- Operating temp.: 0 ~ 55 degrees
- FCC Class A

Basic Module (Rackmount)

- 40MHz TMS320BC52 RISC processor
- 8 or 16 serial ports, RJ45 connectors
- Max. speed up to 460.8K bps
- High-speed T1550C communication controller with 32 bytes Tx/Rx FIFO and on-chip hardware flow control
- RS-232 interface: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
- 19-inch rackmount

Extensive Module (Rackmount)

- 8 or 16 serial ports, RJ45 connectors
- Max. speed up to 460.8K bps
- High-speed T1550C communication controller with 32 bytes Tx/Rx FIFO and on-chip hardware flow control
- RS-232 interface: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
- 19-inch rackmount

CPU Module (Desktop)

- 40MHz TMS320BC52 RISC processor
- 16K bytes ROM
- 32K bytes RAM
- LEDs and 2 seven segment displays
- FCC Class A

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Intellio C320 Turbo Multiport Controller - Fortsetzung

UART Module (Desktop)

High-speed TI1550C communication controller with 32 bytes Tx/Rx and on-chip hardware flow control 8 serial ports Optional RS-232 or RS-422 interface RS-232 (Female or Male connectors): TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND (full modem control) RS-422 (Female connectors): TxD+, TxD-, RxD+, RxD-, RTS+, RTS-, CTS+, CTS-, GND

FCC Class A

Ordering Infos

Base Components

- C32010T: Control Board, including manuals, Windows NT/95/3.x, UNIX and DOS device driver, Moxa PComm serial comm tool (Linux & OS/2 drivers are available by request)
- C32020T: Link cable, 2m DB25-DB25

Rackmount Model

Basic Module (must choose one per C32010T)

- C32080T: 8 port RS-232 module, RJ45 connectors, rackmount kit included
- C32081T: 16 port RS-232 module, RJ45 connectors, rackmount kit included

Extensive Module (optional, max. no. of ports of Extensive and Basic Modules limited to 32)

- C32082T: 8 port RS-232 module, RJ45 connectors, DB37 link cable and rackmount kit included
- C32083T: 16 port RS-232 module, RJ45 connectors, DB37 link cable and rackmount kit included

Desktop Model

CPU Module (must choose)

- C32030T: CPU module

UART Module (At least one is needed)

- C32045T: 8 port RS-232 extending module with female DB25 connectors
- C32047T: 8 port RS-232 extending module with male DB25 connectors
- C32061T: 8 port RS-422 extending module with female DB25 connectors
- C32071T: 8 port RS-232 extending module with surge protection, female DB25 connectors

Accessories (optional)

- C32050T: Long range extension kit (if C32050T is purchased, then C32020T is not needed)
 - Power adapter for Basic Module or CPU Module when longer than 2m from host, 90 ~ 240V AC auto-selective.
 - A link cable contains only 10 data signals
- CN20030: 150cm RJ45 to female DB25 RS-232 (DCE) cable
- CN20040: 150cm RJ45 to male DB25 RS-232 (DTE) cable

Distributeur

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