MOXA Intelligent C320Turbo Multiport Controller

Flexible Serial I/O Solution for Ever-Expanding Systems

Overview

The Intelligent C320Turbo series, specially designed for flexibility, is an ideal multiport serial controller for PCs. It allows users to begin by adding only 8 ports to a PC system, with subsequent expansion up to 128 ports, depending on business growth. In addition, users have different options for control boards (PCI or ISA), connection modules (rackmount or desktop), connector type (RJ45 or DB25), and COM port interface (RS-232 or RS-422). Any combination of these options is possible in one system. Besides, with the high speed I/O trunk design between the control board and connection module, the connection module can be located as far away as 100 meters, and since only one cable is needed, this ensures that one PC can control multiple remote serial devices with the least cost on cabling layout.

Features

- Expands from 8 to 32 ports per board (max. 4 boards, 128 ports per system)
- Dual on-board RISC-based processors improve I/O performance
- Connection module's display panel provides operational status of each port
- Available with 19-inch rack-mountable or desktop connection module
- PCI or ISA bus available
- Controls RS-232 devices 100-m away without using a repeater
- Compatible with Windows COM ports and UNIX tty ports
- Works perfectly with all major Operating Systems

Benefits

- Serves your expansion needs well into the future, protecting your investment
- Large on-board buffer for high-performance communication
- Provides true flexibility, with the best choice of bus platform, connector type, COM port interface, and connection module

Applications

- Industrial automation
- Remote data acquisition
- Network console management
- Telecommunications
- Internet/Intranet server
- RAS (Remote Access Services)

Rack mountable

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Specifications

Control Board

Max. No. of ports	32 per board (max. 4 boards, 128 ports per system)
Bus interface	PCI (Spec. 2.1) or ISA
Processor	TMS320BC52 RISC processor
Memory	512 KB
IRQ	2, 3, 4, 5, 7, 10, 11, 12, 15
Power requirement	C320Turbo/PCI: 0.44A (+5 V) C320Turbo: 0.84A (+5 V)
Operating temp.	0 – 55°C
Operating Humidity	5 – 95%RH
Storage Temp.	-20 – 85°C
Regulatory approvals	FCC, CE, BSMI

OS Supported

C320Turbo/PCI	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 4.2x
C320Turbo	Windows XP, Windows 2000, Windows NT, Windows 95/98/ME, Windows 3.x, DOS, AT&T UNIX SVR4.2, MITUX SVR4.2, Unix Ware SVR4.2, Unix Ware7 SVR5, SCO Open Server, SCO UNIX, SCO XENIX, SunSoft Solarisx86 2.X, 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 4.2x, OS/2

Basic Module (Rackmount)

Serial interface	8 /16 RS-232 (RJ45)
Speed	50 bps – 460.8 Kbps
Signals	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Processor	TMS320BC52 RISC processor
I/O controller	16C550C or compatible, each with 16 byte Tx/Rx FIFO
LED Display	COM port activity LEDs and diagnostic displays

Extensive Module (Rackmount)

Serial interface	8 /16 RS-232 (RJ45)
Speed	50 bps – 460.8 Kbps
Signals	TxD, RxD, RTS, CTS, DTR, DTR, DCD, GND
I/O controller	16C550C or compatible, each with 16 byte Tx/Rx FIFO

CPU Module (Desktop)

Processor	TMS320BC52 RISC processor
LED Display	COM port activity LEDs and diagnostic displays

UART Module (Desktop)

Serial interface	8 RS-232 or RS-422 ports
Signals	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND RS-422: TxD+/–, RxD+/–, RTS+/–, CTS+/–, GND
Surge Protection (Optional)	C32071T: 25 KV ESD, 2 KV EFT
Optical Isolation (Optional)	C32065T: 2 KV

Ordering Information

Basic Components

C32010T/PCI	• PCI bus, control board • MOXA software CD-ROM contains drivers and MOXA PComm Lite serial comm development tool • User's Manual
C32010T	• ISA bus, control board • MOXA software CD-ROM contains drivers and MOXA PComm Lite serial comm development tool • User's Manual

Interface \ Ports	2	4	8	16	24	32
RS-232			√	√	√	√
RS-422			√	√	√	√
RS-485						

C32020T	• DB25 to DB25 link cable (2m) • Select C32050T if it longer than 2m

Rackmount Connection Module

Basic Module *(must choose one per C32010T/PCI or 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 for board is 32, max 128 ports for 4 boards)*

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

Desktop Connection Module

CPU Module *(must choose)*

C32030T	CPU module

UART Module *(must choose at least one, max No. of ports per board is 32, max.128 ports for 4 boards)*

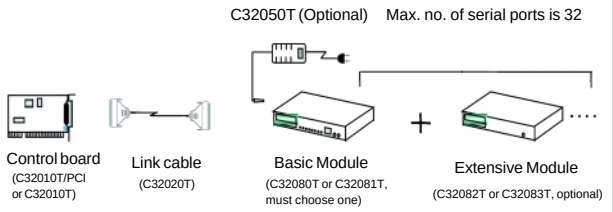
C32045T	8 port RS-232 extending module with female DB25 connectors
C32047T	8 port RS-232 extending module with male DB25 connectors
C32061T	8 port RS-422 extending module with female DB25 connectors
C32065T	8 port RS-422 extending module with optical isolation, female DB25 connectors
C32071T	8 port RS-232 extending module with surge protection, female DB25 connectors

Optional Accessories

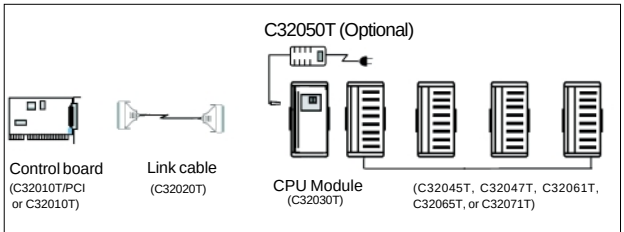
C32050T	Long range extension kit when module is more than 2 m from host, 90 – 240V AC auto-selective power adapter and a 10 pin link cable
CN20030	150cm RJ45 to female DB25 RS-232 (DCE) cable
CN20040	150cm RJ45 to male DB25 RS-232 (DTE) cable
CN20060	150cm RJ45 to male DB9 RS-232 (DTE) cable
CN20070	150cm RJ45 to female DB9 RS-232 (DCE) cable

	C32010T/ PCI	C32010T	C32030T	C32045T	C32047T	C32061T	C32065T	C32071T	C32080T	C32081T	C32082T	C32083T
Dimensions (mm)	120 X 90 X 15	158 X 107 X 15	247 X 108 X 35	247 X 108 X 35	247 X 108 X 35	247 X 108 X 35	247 X 108 X 35	247 X 108 X 35	270 x 160 x 44.5	270 x 160 x 44.5	270 x 160 x 44.5	270 x 160 x 44.5
Weight (g)	90	120	425	500	485	488	525	525	1020	1120	920	1000
Power Requirements	0.44A(+5V)	0.84A(+5V)	0.59A(+5V)	0.28A(+5V) 0.095A(+12V) 0.06A(-12V)	0.28A(+5A) 0.095A(+12V) 0.06A(-12V)	0.485A(+5V)	1.32A(+5V)	0.28A(+5V) 0.095A(+12V) 0.06A(-12V)	0.88A(+5V) 0.095A(+12V) 0.06A(-12V)	1.22A(+5V) 0.19A(+12V) 0.12A(-12V)	0.34A(+5V) 0.095A(+12V) 0.06A(-12V)	0.67A(+5V) 0.19A(+12V) 0.12A(-12V)

MOXA Intelligent C320Turbo Rackmount and Desktop Components



MOXA Intelligent C320Turbo Rackmount Components



MOXA Intelligent C320Turbo Desktop Components

MOXA ®

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