

MOXA Intelligent C320Turbo Multiport Controller

Flexible Serial I/O Solution for Ever-Expanding Systems

Overview -

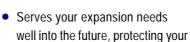
The Intelligent C320Turbo series, specially designed for flexibility, is an ideal multiport serial controller for PCs. It allows users to begin by adding only 8 ports to a PC system, with subsequent expansion up to 128 ports, depending on business growth. In addition, users have different options for 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 rackmountable 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

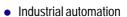
Benefits

investment



- Large on-board buffer for highperformance communication
- Provides true flexibility, with the best choice of bus platform, connector type, COM port interface, and connection module

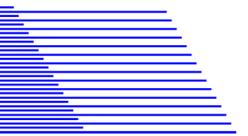
Applications -



- 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	a. 4 boards, 128 ports per	
	system)		
Bus interface	PCI (Spec. 2.1) or ISA		
Processor	TMS320BC52 RIS	C processor	
Memory	512 KB		
IRQ	2, 3, 4, 5, 7, 10, 1	1, 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

Os supportea	
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)

8 RS-232 or RS-422 ports		
S,		
SND		
TS+/-,		
FT		

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

Ports Interface	2	4	8	16	24	32
RS-232			1	1	1	1
RS-422			1	1	1	1
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	
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UART Module (must choose at least one, max No. of ports per board is 32, max.128 ports for 4 boards)

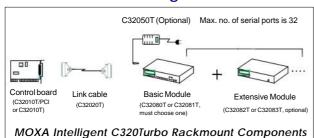
C32045T	8 port RS-232 extending module with female
	DB25 connectors
C32047T	8 port RS-232 extending module with male
	DB25 connectors
C32061T	8 port RS-422 extending module with female
	DB25 connectors
C32065T	8 port RS-422 extending module with optical
	isolation, female DB25 connectors
C32071T	8 port 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 cable
CN20040	150cm RJ45 to male DB25 RS-232 cable
CN20060	150cm RJ45 to male DB9 RS-232 cable
CN20070	150cm RJ45 to female DB9 RS-232 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



Control board Link cable CPU Module (C32010T/PCI or C32010T) (C32045T, C32047T, C32061T, (C32020T) C32065T, or C32071T) MOXA Intelligent C320Turbo Desktop Components

C32050T (Optional)



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