T3200SX

(No longer manufactured)

General Information

Model number: T3200SX 40MB - PA8045U (FCC ID# CJ6UK811)

T3200SX 120MB - PA8046U (FCC ID# CJ6UK811)

Dimensions: 14.6"W x 3.9"H x 15.6"D

Weight: 17 lbs.

Voltage: 115 VAC (104 - 127)/220 VAC (198 - 264) auto sensing

Frequency: 50/60Hz auto sensing

CPU: 80386SX-16 MHz (16/8MHz); 80387SX-16 coprocessor socket

RAM memory: 1MB standard (640KB conventional; 384KB extended)

Memory expandable to 7MB with optional 2MB memory modules or Memory expandable to 13MB with optional 4MB memory modules

Video RAM: 256KB Number of keys: 91

Keyboard type: 101-key keyboard compatible Drives: One 1.44MB 3.5" floppy disk drive

One 40MB, or one 120MB hard disk drive

Operating system included: Toshiba MS-DOS 3.30 or 4.01

Software Compatibility

Compatible with software written for the IBM PC/XT/AT using VGA, EGA, CGA, or T3100/AT&T 6300 640 x 400 high resolution graphics mode

Interfaces

VGA color video port

Built-in dedicated modem slot - "D" form factor

2 RS-232-C serial ports

Parallel printer/external diskette or tape drive port

3 Toshiba proprietary memory slots

101-key enhanced keyboard port

2 expansion interface slots (one IBM PC/XT/286 compatible full length low profile 16 bit ISA slot, and one IBM PC/XT compatible half length low profile 8 bit ISA slot or Toshiba proprietary "A" form factor slot)

Orange Gas Plasma Display

Display area: 9.4"W x 6.9"H; 11.25" diagonal

Resolution: 640 x 480 Gray scales: 16 Contrast: 100 : 1

3.5" 40MB Hard Disk Drive

Conner Peripherals HDD: CP-3044 Interface: IDE Average access time: 25ms Recording Method: 2,7 RLL

3.5" 120MB Hard Disk Drive

Conner Peripherals HDD: CP-30104 Interface: IDE Average access time: 19ms Recording Method: 2,7 RLL

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T3200SX (continued)

IBM PC/XT Compatible Expansion Slots

1 full length IBM PC/XT/286 compatible low profile 16 bit ISA slot; 1 half length IBM PC/XT compatible low profile 8-bit ISA slot

Maximum card sizes:

16-bit long slot 333.502mmL +/- .5mm x 106.68mmW

99.06mmW +/- .3mm w/o connector 33mmH or 13mmH if short slot used

8-bit short slot 140mmL x 13mmH, width same as 16 bit

Hardware Switches and Controls

1) Power on/off

Located on back of computer

2) A/B/PRT switch

Located on right side of computer

With switch set to "A", external FDD port is accessed as drive A; internal 3.5" FDD as drive B. With switch set to "B", external FDD port is accessed as drive B, internal 3.5" FDD as drive A.

Switch is set to "PRT" for parallel printer output.

Computer must be re-booted for switch change to take effect.

3) Plasma display brightness dial

Located on right side of display

Environmental Specifications

1) Operating condition

Ambient temperature: 41 to 95 degrees F. 5 to 35 degrees C.

Relative Humidity: 20% to 80% non-condensing

2) Non-Operating condition

Ambient temperature: -4 to 140 degrees F. -20 to 60 degrees C.

Relative Humidity: 5% to 90% non-condensing

T3200SX (continued)

Options and Extra Accessories

PC12-PA8307U 2MB memory module (no longer manufactured) 4MB memory module (no longer manufactured) PC12-PA8309U PC-PA7225U 5.25" 360KB external FDD with 18VDC adapter PC-T24A 2400 bps Haves compatible Toshiba expansion slot modem w/serial port (no longer manufactured) PC-T24D 2400 bps Hayes compatible dedicated built-in modem (Bell or CCITT) (no longer manufactured) 2400bps data/9600bps send/receive FAX built-in modem PC-T24D/F 14400 bps send/receive FAX built-in modem (no longer manufactured) PC-T144D/F PC-T24D/X or PC-T24D/X2 2400 bps Hayes compatible dedicated built-in modem w/enhanced protocol (MNP5, V.42 bis) (both no longer manufactured) PC-TCL24A Audiovox Axsys cellular connection for use with T24D/X modem (no longer manufactured) Motorola Axsys cellular connection for use with T24D/X modem (no longer manufactured) PC-TCL24M PC-TCL24N NEC Axsys cellular connection for use with T24D/X modem (no longer manufactured) PC-TCL24U Uniden Axsys cellular connection for use with T24D/X modem (no longer manufactured) PC-PA801L Statpower Prowatt 125 auto adapter Fabric carrying case (no longer manufactured) PC-PA7597E Leather carrying case (no longer manufactured) PC-PA7598 PC- PA7310U Expansion chassis (requires expansion chassis interface card) (no longer manufactured) Expansion interface card (no longer manufactured) PC-PA7313E ToshibaLAN 16 bit Ethernet Card (Toshiba proprietary slot) (no longer manufactured) PC-PA5467U PC-PA5466U ToshibaLAN 8 bit Ethernet card (IBM/AT compatible 1/2 card, 8 bit) (no longer manufactured) PC-PA722L TD80 external tape drive (no longer manufactured) Floppy Link to 5.25" desktop diskette drive (no longer manufactured) PC-PA7367E 120MB hard drive upgrade (Installed by Toshiba Authorized Service Providers) Contact ASP PR-PA2750U ExpressWriter 201 portable printer (no longer manufactured) Toshiba BASIC 3.30 (no longer manufactured) PC-SW004 Toshiba MS-DOS 3.30 (no longer manufactured) PC-SW008 Toshiba MS-DOS 4.01 (no longer manufactured) PC-SW007 PC-SW013 Toshiba MS-DOS 5.0 (no longer manufactured) PC-SW015 Toshiba MS-DOS 5.0 (no longer manufactured) PC-SW012 Toshiba MS OS/2 operating system 1.21 (no longer manufactured)

System Memory Map

Address range	Space (Kilobytes)	Used For:
'000000'	640	System working
'09FFFF'		memory
'0A0000'	128	Video RAM
'0BFFFF'		
'0C0000'	32	HRGS ROM
'0C7FFF'		
'0C8000'	32	(Not Used)
'0CFFFF'		· · · · · · · · · · · · · · · · · · ·
'0D0000'	64	(Not Used)
'0DFFFF'		
'0E0000'	64	(Not Used)
'0EFFFF'		
'0F0000'	64	System BIOS ROM
'OFFFFF'		
'100000'	15,360	Memory expansion area
'FFFFFF'		

T3200SX (continued)

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Interrupts

Interrupts	Level	Assigned To:
	NMI	RAM Parity Error, I/O Channel Error
	0	Timer
	1	Keyboard
	2	Interrupt Controller 2
1	3	SIO port 1, 2, Toshiba modem or others
	4	SIO port 1, 2, Toshiba modem or others
	5	SIO port 1, 2, Toshiba modem or others
	6	Floppy disk
	7	Printer 1
	8	RTC
	9	Software Redirect to INT '0A'
2	10	(Reserved)
	11	(Reserved)
	12	SIO port 1, 2, Toshiba modem or others
	13	Math coprocessor
	14	Hard disk
	15	(Reserved)

I/O Port Assignment

Port Address

From / To	Device / Function
'000' / '01F'	82C37A: DMA Controller 1
'020' / '03F'	82C59A: Interrupt Controller 1
'040' / '05F'	82C54 : Timer
'060' / '06F'	8742: Keyboard Controller
'070' / '07F'	RTC & NMI
'080' / '09F'	DMA Page Register
'0A0' / '0BF'	82C59A : PIC 2
'0C0' / '0DF'	82C37A : DMA Controller 2
'0E0' / '0FF'	NDP Error Clear Port
'100' / '1EF'	(Not Used)
'1F0' / '1F7'	HDC Port
'1F8' / '1FE'	(Not Used)
'200' / '207'	(Not Used)
'209' / '217'	(Not Used)
'219' / '257'	(Not Used)
'259' / '267'	(Not Used)
'260' / '2E7'	(Not Used)
'2E8' / '2EF'	SIO Port (1, 2, Modem card)
'2F8' / '2FF'	SIO Port (1, 2, Modem card)
'300' / '337'	(Not Used)
'338' / '33F'	SIO Port (1, 2, Modem card)
'340' / '377'	(Not Used)
'378' / '37F'	Parallel PRT 1
'380' / '3AF'	(Not Used)
'3B0' / '3DF'	HRGS Ports
'3E0' / '3E7'	(Not Used)
'3E8' / '3EF'	SIO Port (1, 2, Modem card)
'3F0' / '3F7'	FDC/FDD Interface (with HDC)
'3F8' / '3FF'	SIO Port (1,2, Modem card)