

T1200XE

(No longer manufactured)

General Information

Model number: T1200XE 20MB - PA8001U (FCC ID# CJ6UT309)
T1200XE 40MB - PA8002U (FCC ID# CJ6UT309)

Dimensions: 12.2"W x 11"D x 2"H

Weight: 7.9 lbs.

Voltage: Computer DC input - 12 VDC, 1.7 A (+ = core; - = shell)
Universal AC adapter - 100-240 VAC 50-60 Hz

Battery: Removable rechargeable NiCD battery pack

CPU: 80C286 (12/6MHz)

RAM memory: 1MB standard (640KB conventional; 384KB LIM-EMS 4.0, extended, or HardRAM)
Memory expandable up to 5MB when optional 2MB memory modules are added

Video RAM: 32KB

Number of keys: 82

Keyboard type: 101-key keyboard compatible

Drives: One 1.44MB 3.5" floppy disk drive
One 20MB or one 40MB hard disk drive

Standard features: AutoResume
Double scan CGA
HardRAM
Auto display and hard drive shutdown
Shadow RAM
CPU sleep mode
Intelligent power supply with "Gas Gauge"

Operating system included: Toshiba MS-DOS 4.01

Software Compatibility

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

Interfaces

RGB (CGA) color video port
RS-232-C serial port
Parallel printer/external diskette or tape drive port
Numeric keypad port
Built-in modem slot - "D" form factor
2 Toshiba proprietary memory slots
100 pin expansion interface connector

Fluorescent Sidelit Supertwist LCD Display

Display area: 7.75"W x 4.88"H; 9" diagonal
Resolution: 640 x 400
Contrast: 5 : 1

2.5" 20MB Hard Disk Drive

Conner Peripherals HDD: CP2024
Interface: IDE
Average Access Time: 25ms
Recording Method: 2-7 RLL

or

JVC HDD: JD-E2825POT1
Interface: IDE
Access Time (average): 25ms
Recording Method: 2-7 RLL

T1200XE (continued)

2.5" 40MB Hard Disk Drive

JVC HDD: JD-E2850P30-2
Interface: IDE
Average Access Time: 25ms
Recording Method: 2-7 RLL

Soft Switches

1) Change CPU speed

Fn + PgUp 12MHz CPU Speed
Fn + PgDn 6MHz CPU Speed

2) Character font

Fn + Right Arrow Toggles display font

3) Display select

Fn + End External display
Fn + Home LCD display

4) Pop-up window

Fn + Esc Toggles pop-up window

5) Keypad overlay

Fn+ F10 Toggles keypad overlay

6) Fn key

Fn + F11 Activates Num Lock
Fn + F12 Activates Scroll Lock
Fn + Ctrl Simulate IBM enhanced keyboard Right Ctrl
Fn + Alt Simulate IBM enhanced keyboard Right Alt
Fn + Enter Simulate IBM enhanced keyboard numeric keypad Enter

Hardware Switches and Controls

1) Power on/off

Located on back of computer

2) Reset

Located on back of computer

3) LCD brightness and contrast dials

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: 0% to 80% non-condensing
Altitude (from sea level): 0 to 9842 ft.

2) Non-Operating condition

Ambient temperature: -4 to 140 degrees F. -20 to 60 degrees C.
Relative Humidity: 8% to 80% non-condensing
Altitude (from sea level): 0 to 32808 ft.

3) Wet bulb temperature condition

Ambient temperature: 79 degrees F. (26 degrees C.) maximum

T1200XE (continued)

Options and Extra Accessories

PC13-PA8306U 2MB memory card (no longer manufactured)
 PC-T24D 2400 bps dedicated built-in modem (Bell or CCITT) (no longer manufactured)
 PC-T24D/F 2400bps data/9600bps send/receive FAX built-in modem
 PC-T144D/F 14400 bps send/receive FAX built-in modem (no longer manufactured)
 PC-T24D/X or PC-T24D/X2 2400 bps Hayes compatible dedicatad 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)
 PC-TCL24M Motorola Axsys cellular connection for use with T24D/X modem (no longer manufactured)
 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-PA7225U 5.25" 360KB external FDD with 18VDC adapter
 PC-PA722L TD80 external tape drive (no longer manufactured)
 PC-PA8712U Battery pack - 1700 mAh
 PC-PA8705U Battery pack - 2200mAh (no longer manufactured)
 PC-PA8704U Battery pack recharger (with AC adapter) (no longer manufactured)
 PC-PA8706U Universal AC adapter
 PC-PA8717U Auto adapter - 12 VAC (no longer manufactured)
 PC-PA801L Statpower Prowatt 125 auto adapter
 PC-PA7354E 17-key numeric keypad
 PC-PA8600U Desk Station II (no longer manufactured)
 PC13-PA873L Fabric carrying case (no longer manufactured)
 PC-PA1000L Leather carrying case (no longer manufactured)
 PC-PA1050L Leather attache case
 PC13-PA874L Executive leather portfolio (no longer manufactured)
 Contact ASP 40MB hard drive upgrade (Installed by Toshiba Authorized Service Providers)
 PR-PA2750U ExpressWriter 201 portable printer (no longer manufactured)
 PC-SW008 Toshiba MS-DOS 3.30 (no longer manufactured)
 PC-SW007 Toshiba MS-DOS 4.01 (no longer manufactured)
 PC-SW013 Toshiba MS-DOS 5.0 (no longer manufactured)
 PC-SW015 Toshiba MS-DOS 5.0 (no longer manufactured)
 PC-SW004 Toshiba BASIC 3.30 (no longer manufactured)

System Memory Map

Address range	Space (Kilobytes)	Used For:
'000000'-'03FFFF'	256	Conventional memory
'040000'-'09FFFF'	384	Conventional memory or EMS window
'0A0000'-'0B7FFF'	96	Option RAM
'0B8000'-'0BFFFF'	32	Video RAM
'0C0000'-'0DFFFF'	128	EMS window
'0E0000'-'0E7FFF'	32	HardRAM window
'0E8000'-'0EFFFF'	32	Backup RAM
'0F0000'-'0FFFFF'	64	System BIOS ROM
'100000'-'4FFFFF'	4000	Optional memory cards
'500000'-'FEFFFF'	10,936	Memory expansion in expansion slot
'FF0000'-'FFFFFF'	64	System BIOS ROM (Duplicated)

T1200XE (continued)

Interrupts

Interrupt	Level	Assigned To:	Interrupt	Level	Assigned To:
----	NMI	I/O Channel Error	----	----	----

1	0	Timer	2	8	RTC
	1	Keyboard		9	Software Redirect to INT '0A'
	2	PIC 2 for level 8 to 15		10	(Reserved)
	3	Secondary Communications (COM2)		11	(Reserved)
	4	Primary Communications (COM1)		12	(Reserved for COM 3)
	5	PRT 2		13	(Reserved for 80C287)
	6	FDC		14	HDC
	7	PRT 1		15	(Reserved)

I/O Port Assignment

Port Address

From / To	Device / Function
'000' / '01F'	82C37 : DMA Controller 1
'020' / '03F'	82C59 : PIC 1
'040' / '05F'	82C54 : Timer
'060' / '06F'	80C42 : KBC
'070'	NMI
'070' / '07F'	RTC
'080' / '09F'	DMA Page Register
'0A0' / '0BF'	82C59 : PIC 2
'0C0' / '0DF'	82C37 : DMA Controller 2
'0E0' / '0EF'	Special Register
'0F0' / '0F7'	Reserved for NPU
'100' / '1EF'	(Not Used)
'1F0' / '1FF'	HDC
'200' / '207'	Game I/O
'208' / '20F'	LIM-EMS Set 0
'210' / '217'	Expansion Unit
'218' / '21F'	LIM-EMS Set 1
'220' / '257'	(Not Used)
'258' / '25F'	LIM-EMS Set 2
'260' / '267'	(Not Used)
'268' / '26F'	(Not Used)
'270' / '277'	(Not Used)
'278' / '27F'	Parallel PRT 2
'280' / '2A7'	(Not Used)
'2A8' / '2AF'	Reserved for LIM-EMS
'2B0' / '2B7'	(Not Used)
'2B8' / '2BF'	Reserved for LIM-EMS
'2C0' / '2E7'	(Not Used)
'2E8' / '2EF'	Reserved for LIM-EMS
'2F0' / '2F7'	(Not Used)
'2F8' / '2FF'	Serial Port 2 (COM2)
'300' / '31F'	Prototype card
'320' / '32F'	XT type HDC
'330' / '377'	(Not Used)
'378' / '37F'	Parallel PRT 1
'380' / '38F'	SDLC, Bisync 2
'388' / '39F'	(Not Used)
'3A0' / '3AF'	Bisync 1
'3B0' / '3BF'	MDA and PRT
'3C0' / '3DF'	CGA
'3E0' / '3EF'	(Not Used)
'3F0' / '3F7'	FDC, HDC
'3F8' / '3FF'	Serial Port 1 (COM1)