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Toshiba T1100 PLUS - General Information
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Model number:   PA7042  (FCC ID# CJ69XAE234)
Dimensions:     12.2" W x 2.6"H x 12"D
Weight:         10 lbs.
Voltage:        Computer DC input  - 9VDC, 1.1A (+ = core; - = shell)
                AC adapter - 120VAC (108 - 132V) 60Hz 15W
Battery:        Internal rechargeable NiCD battery pack
CPU:            80C86-2 (7.16/4.77 MHz)
RAM memory:     Early models shipped with 256KB standard (conventional);
                Later models shipped with 640KB standard (conventional)
                Memory expandable up to 1.6MB when optional 1MB LIM-EMS (3.2)
memory card added
Video RAM:      32KB
Number of keys: 81
Keyboard type:  PC
Drives:         Two 720KB 3.5" floppy disk drives

Operating system included:    Toshiba MS-DOS 2.11 or 3.20


Software Compatibility
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Compatible with software written for the IBM PC/XT using a color graphics
adapter (CGA) display


Interfaces
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RGB (CGA) color video port
Composite b&w monochrome video port
RS-232-C serial port
Parallel printer/external floppy drive port
Toshiba proprietary expansion slot - "A" form factor

Reflective Supertwist LCD Display

Display area:   9.24" W x 4.2" H; 9.75" diagonal
Resolution:     640W x 200H
Viewing angle:  -15 to 40 degrees
Contrast:       4 : 1
Battery Life (Time until low battery LED)

Tests w/ 10% FDD access, Temperature 25 degrees C

SYSTEM  HDD     FDD     MODEM   Running Time
On      NA      On      NI      7.5 Hours
"NI" means not installed


Soft Switches
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1) Change CPU speed

   Ctrl + Alt + PgUp    7.16 MHz CPU speed
   Ctrl + Alt + PgDn    4.77 MHz CPU speed
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2) Character font

   Ctrl + Alt + Right arrow   Toggles display font

3) Display select

   Ctrl + Alt + End   External display
   Ctrl + Alt + Home   LCD display

4) Keypad overlay

   Ctrl + Alt + Backspace   Toggles keypad overlay

Hardware Switches and Controls

1) Power on/off

   Located on back of computer

2) A/B/PRT Switch

   Located on left side of computer

   With switch set to "A", external FDD is accessed as drive A; top internal 3.5" FDD as drive B, bottom internal 3.5" drive is disabled.
   With switch set to "B", external FDD is accessed as drive B; top internal 3.5" FDD as drive A, bottom internal 3.5" drive is disabled.
   With switch set to "PRT", internal 3.5" FDDs are both operative - top drive as A, bottom drive as B, and PRT port is operative as a parallel printer port.

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

3) LCD contrast dial

   Located on left side of computer

4) Internal 6 bit dip switch

   Located internally on left side of computer, just above keys.

   SW1 OFF   not used (always Off)
   Settings for System Memory
   SW2 SW3
   OFF OFF   640K System Memory
   ON   OFF   512K System Memory
   OFF ON   384K System Memory
   ON   ON   256K System Memory
   Setting for one or two internal floppy drives installed
   SW4 OFF   2 FDD
   ON   1 FDD
   Settings for Serial port and/or modem Com port
   SW5 ON   Serial Port - Com 1. Modem - Com 2 (if installed)
   OFF Serial Port - Com 2, Modem - Com 1 (if installed)
   Settings for using internal display adapter or external video adapter
   SW6 ON   Internal Display Controller
   OFF External Controller

Enhancements

1) 1/87 Supertwist LCD screen started shipping on T1100 Plus
2) 5/87 Supertwist LCD screen upgrade available

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 131 degrees F. -20 to 55 degrees C.
Relative Humidity: 5% to 95% non-condensing
3) Acclimation

Needs no more than 60 min. warm up

Options & Extra Accessories

PC-PA7139U	1MB LIM-EMS 3.2 memory card (Toshiba expansion slot) (no longer manufactured)
PC2-PA7132U	384KB memory card for 256KB models only (no longer manufactured)
PC-PA7225U	5.25" 360KB external FDD with 18VDC adapter
PC-PA7310U	Expansion chassis & cable (requires expansion interface card) (no longer manufactured)
PC-PA7312ER	T1100 Plus expansion interface card (Toshiba expansion slot) (no longer manufactured)
PC-PA7367E	Floppy Link to 5.25 desktop diskette drive (no longer manufactured)
PC-PA7438E	300/1200 bps Hayes compatible Toshiba exp. slot modem (no longer manufactured)
PC-T24A	2400 bps Hayes compatible Toshiba exp. slot modem w/serial port (no longer manufactured)
PC-PA8701U	9VDC Universal AC adapter (replaces PC-PA7482U)
PC-PA7482U	9VDC AC adapter (no longer manufactured)
PC-PA7483U	9VDC automobile power adapter (no longer manufactured)
PC-PA801L	Statpower Prowatt 125 auto adapter
PC-PA7590E	Fabric Carrying case (no longer manufactured)
PR-PA2750U	ExpressWriter 201 portable printer (no longer manufactured)
PC-SW008	Toshiba MS-DOS 3.30 (no longer manufactured)
PC-SW004	Toshiba BASIC 3.30 (no longer manufactured)

System Memory Map

Start Address Decimal	Hex	Space (Kilobytes)	Used For:
0	00000		
64K	10000		
128K	20000	256	System working
192K	30000		memory
256K	40000		Optional expansion
320K	50000		memory with
384K	60000	384	memory card, or
448K	70000		space for I/Os on I/O
512K	80000		expansion slot
576K	90000		

640K	A0000		Space for I/Os on I/O
704K	B0000	96	expansion slot
736K	B8000	16	Video RAM
752K	BC000	16	(Reserved)
768K	C0000		
832K	D0000	192	Space for I/Os on I/O
896K	E0000		expansion slot
960K	F0000	32	(Reserved)
992K	F8000	32	System (BIOS) ROM

Interrupts

Level	Assigned To:
NMI	RAM Parity Error
0	Timer
1	Keyboard
2	(Reserved)
3	Secondary Communications (option)
4	Primary Communications
5	External Hard Disk (option)
6	FDD
7	Parallel Printer

I/O Port Assignment

Port Address From / To	Device / Function
'000' / '01F'	82C37 : DMAC Device
'020' / '03F'	82C59 : PIC Device
'040' / '05F'	82C53 : PIT Device
'060' / '07F'	82C55 : PPI Port
'080' / '09F'	DMA Page Register
'0A0' / '0BF'	NMI Mask Register
'0E0' / '0EF'	Processor Clock Switch
'1F0' / '1FF'	Hard Disk (option)
'2C0' / '2DF'	Real Time Clock
'2F8' / '2FF'	Secondary Communications (option)
'378' / '37F'	Parallel Printer
'3D0' / '3DF'	Display
'3F0' / '3F7'	Floppy Disk Controller
'3F8' / '3FF'	Primary communications (COM1)