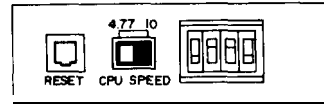


Computer Specifications

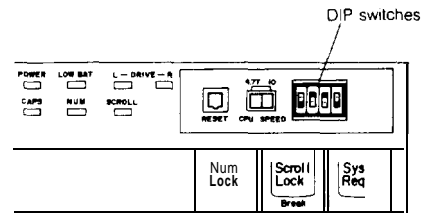
CPU:	NEC V30 dual-speed microprocessor, 4.77 or 10 MHz switch selectable clock speeds. 20-bit address bus and 16-bit data bus	
RAM:	640KB on main system board	
ROM:	16KB, in two sockets	
Floppy Disk Controller:	Supports two internal 35 (720KB) drives and one external 5 25" (360KB) drive	
Expansion Slots:	Two expansion slots (proprietary)	
Speaker:	Internal, programmable	
Clock/Calendar RAM:	64 Bytes of CMOS RAM for real-time clock, calendar, and system configuration with battery backup	
Keyboard:	Proprietary, full-function, 85 keys, separate numeric/cursor pad	
Power:	NiCad rechargeable battery and standard 110/120 AC adaptor	
Video Controller and Screen:	Supertwist or supertwist backlit LCD, external CGA monitor port optional	
Mass storage:	Two, 3.5 half-height floppy disk drives; 720KB storage capacity	
Standard:	3.5" half-height floppy disk drive and 20MB hard disk drive	
Interfaces:	Centronics-compatible parallel port	
Standard:	RS-232C compatible serial port	
Standard:	5 25 floppy disk drive port	
Standard:	External CGA port	
Environmental Conditions:	Operating Range 41° to 90°F (5° to 35°C)	
Temperature	Storage Range -4° to 122°F (-20° to 60°C)	
Humidity:	Operating Range 20% to 60% non-condensing	
	storage Range 10% to 90% non-condensing	
Physical Dimensions:	Width -13.6 in	
	Depth -12.2 in	
	Height -3.1 in	
	Weight -12.6 lbs	
	(Dual floppy disk drive configuration)	
Display Options:	Supertwist LCD	Supertwist Backlit LCD
Screen Type:	Reflective	Transmissive
LCD Color:	Yellow	Blue
Size (Active Area):	9.5" x 4.1"	9.5" x 4.1"
Aspect Ratio:	1.4 to 1	1.4 to 1
Graphics Resolution:	640 x 200	640 x 200
Character Display:	80 x 25	80 x 25
Selectable View Angle/Inverse Video:	Yes	Yes
Adjustable Brightness:	NO	Yes
Power Saver Feature:	NO	Yes
Equity LT Options:	Internal 30011200 baud modem	
	13 CGA color display (640 x 200 dots)	
	Carrying case	
	Cigarette lighter adaptor	
	Screen displays	
	Supertwist LCD display	
	Supertwist Backlit LCD display	

Switch Settings



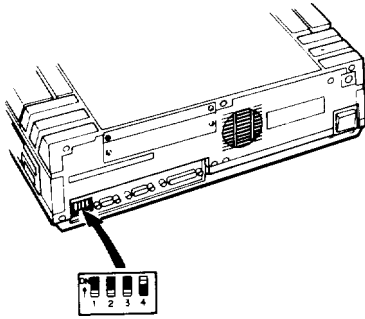
The CPU SPEED switch selects between 4.77 MHz and 10 MHz. When the computer is running at 4.77 MHz, the power light is orange, and at 10 MHz, the light is green.

The CPU SPEED switch is located above the keyboard.



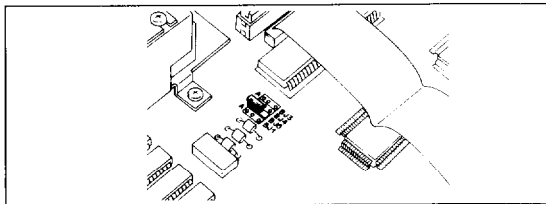
LCD DIP Switch Settings

Switches				Functions
1	2	3	4	
ON				LCD Normal
OFF				LCD Reverse
	ON	ON		LCD Screen Mode 0
	ON	OFF		LCD Screen Mode 1
	OFF	ON		LCD Screen Mode 2
	OFF	OFF		LCD Screen Mode 3
			ON	Select LCD
			OFF	Select RGB color monitor



Back Panel DIP Switch Settings

Switches			Functions
12	3	4	
ON			Use external diskette drive
OFF			Use parallel printer
ON			External diskette drive is B
OFF			External diskette drive is A
	ON		1 FDD
	OFF		2 FDDs
		ON	Serial port is secondary
		OFF	Serial port is primary

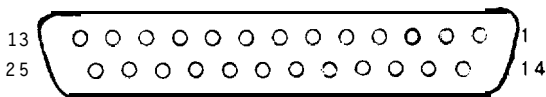


System Board Jumper Adjustment

Jumper 5 is used to control the LED showing drive access for the left-hand drive. In position A, it supports a FDD. In position B, it supports a HDD.

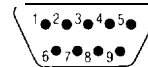
Connector Pin Assignments

Parallel Port Connector



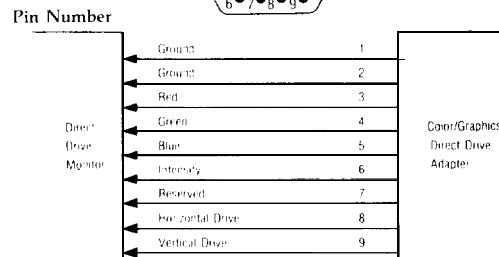
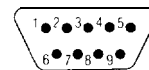
PIN NO.	SIGNAL NAME	DIRECTION	DESCRIPTION
2	-STROBE	0	Strobe
3	DATA0	0	Printer Data 0
	DATA1	0	Printer Data 1
4	DATA2	0	Printer Data 2
5	DATA3	0	Printer Data 3
6	DATA4	0	Printer Data 4
7	DATA5	0	Printer Data 5
8	DATA6	0	Printer Data 6
9	DATA7	0	Printer Data 7
10	-ACK	1	Acknowledge
11	BUSY	1	Printer Busy
12	PE	1	Paper End
13	SLCT	1	Printer Select
14	-AUTOFD	1	Auto Feed
15	-ERROR	1	Printer Error
16	-INIT	1	Printer Initialize
17	-SLCTIN	1	Printer Select
18-25	GND		Ground

Serial Port Connector



PIN NO.	SIGNAL NAME	DIRECTION	DESCRIPTION
1	CRDET	I	Data Carrier Detect
2	RXDT	I	Receive Data
3	TXDT	0	Transmit Data
4	DTR	0	Data Terminal Ready
5	SG		Signal Ground
6	DSR	I	Data Set Ready
7	RTS	0	Request to send
8	CTS	I	Clear to Send
9	RI	I	Ring Indicator

Monitor Connector



PIN NO.	SIGNAL NAME	DIRECTION	DESCRIPTION
1	FG	-	Frame Ground
2	GND	-	Ground
3	ROUT	0	Video Signal (Red)
4	GOUT	0	Video Signal (Green)
5	BOUT	0	Video Signal (Blue)
6	IOUT	0	Video Signal (Intensity)
7	NC	-	No connection
8	HSYNC	0	Horizontal Sync.
9	VSNC	0	Vertical Sync.

I/O Port Addresses

Address	Function
000 - 01F	DMA Controller
020 - 03F	Interrupt Controller
040 - 05F	Timer / Counter
080 - 07F	Programmable Peripheral Interface
080 - 09F	DMA Page Register
0A0	Non - Maskable Interrupt Mask
2F8 - 2FF	Serial Port 2
320 - 32F	Hard Disk Controller
3BC - 3BF	Parallel Port
3D0 - 3DF	Video (LCD/CRT) Controller
3F0 - 3F7	Floppy Disk Controller
3F8 - 3FF	Serial Port 1
03DA	Gradation Selection
11B4 - 11B5	RTC and CMOS RAM
1188	System Status Register

DMA Channels

Channel	Function
0	DRAM Refresh
1	Spare
2	FDD Controller
3	HDD Controller

Hardware Interrupts

NUMBER	FUNCTION
IRQ0	Timer Output
IRQ1	Keyboard
IRQ2	Reserved
IRQ3	Serial Port 2
IRQ4	Serial Port 1
IRQ5	Hard Disk
IRQ6	Floppy Disk
IRQ7	Printer

Installation/Support Tips

Power

- - - The Equity LT AC adapter is an auto -sensing unit which adjusts automatically between 100-240 V, 50/60 Hz. Therefore, it can be used anywhere in the world without special adjustment.
- - - When using the Equity LT, equipped with the HDD and backlit LCD, on battery power, take conservation measures. These are: 1) set the backlight period option to 30 seconds, 2) set the brightness and contrast controls as low as is comfortable, 3) run at 4.77 MHz and 4) turn the HDD off, at the power switch in the rear of the drive, when the HDD is not actually in use.
- - - Periodically, discharge the battery completely. This will help to minimize the memory effect encountered with NiCad batteries. After the complete discharge, give the LT a full, 12-hour recharge. This will help to keep battery charge life as great as possible.

Video

- - - When using the Equity LT with a color monitor, as opposed to an LCD, make sure that LCD DIP switch number 4 is set OFF. If the unit is connected to both LCD and monitor, the display can be switched back and forth without rebooting.
- - - If you find the display, generated by your software package, is difficult to read, adjust LCD DIP switches 2 and 3 to find the clearest LCD Mode. There are four options and one of them should improve the display.
- - - If your software requires that you specify a display type, select CGA. If it is an option, select CGA - ONE COLOR. Some software packages have a display type called BLACK & WHITE for Laptops. If this is an available option, select it.

Software Problems

- - - When installing a copy- protected software package on the Equity LT, set the the CPU speed to 4.77 MHz. This has been found to have fewer conflicts with copy-protection. After the installation, the CPU can be switched back to the higher speed.
- - - If a software package does not appear to be compatible with the Equity LT, try switching the CPU speed to 4.77 MHz before giving up. Some software packages (e.g., PC-Talk III from Headlands Communications Corp.) have been found to function only at 4.77 MHz.

Information Reference List

Engineering Change Notices

EQLT-001	12/8/87	Change of Cable Set #5DE (FDD Signal Cable)
EQLT-002		Hilo-HDC Snort Potential
EQLT-003	2/10/89	Equity LT/LT Modem Insulating Sheet

Product Support Bulletins

S-0031	12/14/87	Equity Series with Word and Serial Printers
S-0036A	2/25/88	Equity LT - Common Questions and Answers
S-0055	6/14/88	Equity LT Battery Life
S-0062A	6/9/89	Equity Series Computers - ROM History

Related Documentation

A495A-AA		Equity LT Software Package. MSDOS 3.2 and GW-Basic
A806021		Equity LT Software Package MSDOS 3.3 Upgrade
M-TM-EQLT		Equity LT Technical Manual
M-PM-EQLT		Equity LT Programmer's Reference Manual
MPL-EQLT	4/21/88	Equity LT Pans List
MPL-EQLTBL	11/10/87	Equity LT LCD (Back Lit) Parts List
MPL-EQLTS	11/10/87	Equity LT LCD (Supertwist) Parts List
Y16499100300		Equity LT User's Guide and Diagnostics Manual

Technical Information Bulletins

EQLT-001	1/31/89	Equity LT/LT Modem
EQSER-004	6/12/89	Keyboard Alignment