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Microprocessor

Microprocessor type Intel® i486™ series, including i486SX, i486SX2, i487SX, i486DX, and i486DX2.

Microprocessor speeds:

i486 SX 25 and 33 MHz

i486 DX 33 MHz

i486 DX2 50 and 66 MHz

Compatibility 8 MHz (simulated)

Internal cache 8 KB

Math coprocessor internal to i486DX and DX2; available for i486SX systems as an upgrade to the i487™ SX, i486DX, or i486DX2 microprocessor

Processor sockets LIF PGA, PQFP or PGA for DX, DX2, and 487 processors

System Information

System chip set SiS 85C460

Data bus width 32 bits

Address bus width	32 bits
DMA channels	7
Timers	3 programmable
Interrupt levels	15
Flash EPROM	no
BIOS type	128 Kb x 8 (1 Mb) EPROM socketed
CTP	varies depending on processor; see General Info
Serial port UART	16450-compatible; 56K baud
FCC Class	B

Expansion Bus

Bus type	ISA, 8-MHz compatibility (8.33 MHz for 25/50 MHz processors; 8.25 MHz for 33/66 MHz processors)
Expansion slots	3 full-length on riser card

Cache Memory

External cache (optional)	128 KB
Cache method	direct mapped, write through
Cache burst read cycle	2-2-2-2 at 33 MHz 2-1-1-1 at 25 MHz
Cache speed	20 ns
Cache line fill sequence size	16 bytes
Chip type	32-Kb data SRAM DIP

Memory

Architecture	fast page burst mode
Wait states	0 at 25 MHz
	1 at 33 MHz
SIMM sockets	(2) 32-bit (72-pin), tin-lead sockets
designated "SIMM1" and	"SIMM2"
SIMM capacities	1 MB, 4 MB and 16 MB

NOTE: The 1-MB and 2-MB configurations are offered for special bid activity only. These configurations are not offered as a standard configuration and are not documented in the User's Guide.

Standard RAM	4 MB
Maximum RAM	32 MB
Memory access time:	
Access time	70 ns
External cache	20 ns
BIOS address	FFFF000h
BIOS cache	available through System Setup

Drives

Externally accessible bays	(1) 5.25-inch
	(1) 3.5-inch
Internally accessible bays	(1) 3.5-inch

Ports

Externally accessible:

Serial (DTE)	(2) 9-pin connectors
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(16450-compatible)

Parallel (1) 25-hole connector (bidirectional)
(AT- and PS/2-compatible)

Video (1) 15-hole connector

PS/2-style keyboard (1) 6-pin mini-DIN

PS/2-compatible mouse (1) 6-pin mini-DIN

Internally accessible:

IDE hard-disk drive 40-pin connector

Diskette drive 34-pin connector

VGA feature connector 26-pin connector

Video

Video type processor local bus video

Video chip set Cirrus Logic 5428

Data width 32 bits

Video memory:

Standard 512 KB

Optional upgradable to 1 MB

using (4) 256 Kb x 4 60-ns DRAMs

Maximum resolution:

Colors	512-KB video memory	1-MB video memory
16	1024 x 768	1280 x 1024
256	800 x 600	1024 x 768
32 K	N / A	800 x 600

64 K	320 x 200	800 x 600
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16 M	320 x 200	640 x 480
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Processing-Speed Key Combinations

<CTRL-ALT-\> toggles microprocessor speeds on 101-key keyboard

<CTRL-ALT-#> toggles microprocessor speeds on 102-key keyboard

System-Function Key Combinations

<CTRL-ALT-DEL> restarts (reboots) the computer

<CTRL-ALT-ENTER> starts System Setup program (MS-DOS® only)

Controls and Indicators

Power control	front panel
Diskette drive access indicator	LED on the drive
Hard-disk drive access indicator	LED on the drive

Power

DC power supply:

Wattage	100 W
Voltage	115 V at 60 Hz/230 V at 50 Hz
Backup battery	Dallas 1287 RTC battery chip
BTUs*	102 BTU/hr (typical)
	122 BTU/hr (maximum)

* With 33-MHz, 4-MB RAM, 80-MB hard-disk drive, and one diskette drive.

Physical

Height	10.2 cm (4 inches)
Width	38.6 cm (15.1 inches)
Depth	39.9 cm (15.6 inches)
Weight	10.0 kg (22 lb)

Environmental

Temperature:

Operating 10° to 35°C (50° to 95°F)

Storage -40° to 65°C (-40° to 149°F)

Relative humidity 8% to 80% (noncondensing)



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