

Satellite T2110CS and T2130 Series

Technical Specifications



Processor

Model	Processor	Clock speed
T2110CS	Intel486 DX4	75 MHz internally
T2130CS	(3.3-volt technology with integrated numeric coprocessor)	25 MHz externally
T2130CT		

System memory

Memory type	Amount	Access speed
Standard RAM	4 MB (T2110CS only) 8 MB	(70 nanoseconds)
Maximum memory expansion	28 MB (T2110CS only) 32 MB	(70 nanoseconds)
BIOS flash EPROM	128 KB	(150 nanoseconds)
Video RAM	1,024 KB	(80 nanoseconds)
Cache memory	16 KB on the CPU chip	

Memory technology

Technology	5-volt
No. of expansion slots	1
Expansion module sizes	4 MB, 8 MB, 16 MB, 24 MB

Diskette drive

Specification	High setting	Low setting
Media supported*	3.5 inch 2HD	3.5 inch 2DD
Storage capacity	1.44 MB	720 KB
Rotation	300 rpm	300 rpm
Transfer rate	500 Kbit/sec	250 Kbit/sec
Bytes per sector	512	512
Sectors per track	18	9

*Adjustment between diskette types is automatic.

Hard disk drive

Specification	T2110CS	T2130CS/T2130CT
Formatted capacity	350 mill. bytes (330 MB)	520 mill. bytes (500 MB)
Data transfer rate to buffer	11.1 - 13.3 MB/sec	16.6 MB/sec
Data transfer rate to media	32 - 43.75 MBits/sec	up to 44.9 MBits/sec
Average seek time	13 ms	13 ms
Track-to-track seek time	3ms	3 ms
Drive rotation	4200 rpm	4,200 rpm
No. of disks	2	2
No. of read/write heads	4	4
Coding	1-7 RLL	8-9 RLL
Bytes per sector	512	512
Interleave	1:1	1:1
Interface	AT compatible task file	AT compatible task file

Screens

Specification	T2110CS/ T2130CS	T2130CT
Screen type	Dual Scan STN colour	TFT colour
Number of dots	640 x 480	640 x 480
Dot pitch	0.33	0.33
Display area	217.2 x 164.4	211.2x158.4
Diagonal	10.4" (26.4 cm)	10.4" (26.4 cm)
Contrast ratio	15:1 (min)	100:1(min)
Colours	up to 222 K	up to 256 K
Response rise/fall	210/90	30/50 ms
Brightness	60 NIT	70 NIT

Graphics adaptor CT

Video display	Resolution	Max. Refresh Rate	Max. Number of colours
Internal display VGA	640 x 480	75 Hz	16 colours
Internal display SVGA	640 x 480	75 Hz (256 col.)	up to 64 K colours
External SVGA	640 x 480	75 Hz (256 col.)	up to 64 K colours
External SVGA	800 x 600	75 Hz (256 col.)	up to 256 colours
External SVGA	1024 x 768	60 Hz (256 col.)	up to 256 colours

Graphics adaptor CS

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Physical dimensions

Size	T2110CS/T2130CS	T2130CT
(W, L, D)	299 x 226 x 53 mm (11.7" x 10.4" x 2.09")	299 x 226 x 51 mm (11.7" x 10.4" x 2.01")
Weight	3.1 kg (6.8 lb)	3.1 kg (6.8 lb)

Battery types

Main	Back-up	RTC
NiH ₂	NiH ₂	Vanadium lithium
12.0 V x 2600mAH (NiH ₂)	7.2 V x 120 mAH	3.0 V x 50 mAH

Resume battery- back-up

Main	Back-up	RTC
4 - 5 days	5 hours	1 month (RTC only)

Conditions: battery full, memory 8 MB — less with more memory

Battery life

Maximum Life	Up to 4.5 hours (PC Magazine's Rundown V2.0)
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Integrated AC adaptor

Input voltage	100 - 240 V AC, self-adjusting
Frequency	50 - 60 Hz
Output voltage	18 V
Output current	1.1 A max.
Power dissipation	20 W max.

Pre-installed software

DOS 6.22
Windows 3.11
PCMCIA Socket and Card Services software
Toshiba screen drivers for Windows
MousePoint configuration software

Connectivity & expansion

PC ports	Port replicator ports	PC expansion
Serial	Serial	1 PCMCIA Type III slot for cards up to 14.5 mm
Parallel (ECP)	Parallel (ECP)	or 2 PCMCIA Type II slots for cards up to 5 mm
PS/2 keyboard	PS/2 keyboard	Internal memory module slot
Port replicator connector	MIDI/Joystick connector	
RGB	RGB	
	PS/2 mouse	
	External FDD	

Environmental conditions

	Operating	Non-operating
Temperature	5° C to 35° C	-20° C to 65° C
Thermal gradient	20° C/hour	20° C/hour
Relative humidity	20% to 80% Non-condensing	10% to 90% Non-condensing
Altitude	0 to 3,000 m*	-60 to 10,000 m
(Relative to sea level)	0 to 10,000 feet*	(-200 to 30,000 feet)
Shock	10 G	50 G
Vibration	0.25 G	1 G

Certification

UL 478/1012	USA
IEC 950	International
NEMKO	Norway
DEMKO	Denmark
SEMKO	Sweden
SEV	Switzerland
SETI(EI)	Finland
VDE 0878 class B	Germany / EC
FCC part 15 class B	USA
CSA 220	Canada
DOC Class B	Canada
SASO	Middle East

*Aeroplane cabin pressures simulate low altitudes, so flying higher causes no restrictions

Options

Article	PA number
4 MB memory kit	PA2026U
8 MB memory kit	PA2027U
16 MB memory kit	PA2028U
24 MB memory kit	PA2029U
Extra battery pack	PA2437UR
Battery charger (with AC adaptor)	PA2422UE/UY
Keycaps for English keyboard	PA2213EN
Keycaps for German keyboard	PA2213GR
Keycaps for French keyboard	PA2213FR
Keycaps for Scandinavian keyboard	PA2213SC
Keycaps for Italian keyboard	PA2213IT
Keycaps for Spanish keyboard	PA2213SP
Port replicator	PA2708U
PCMCIA modems (where approved)	TBD
PCMCIA ethernet adaptor	PCE2-10BC