

SATELLITE PRO 410 SERIES Product Specifications

	Satellite Pro 410CS 810MB: PA1215U-S2A	Satellite Pro 410CDT 810MB: PA1215U-T2C
PROCESSOR		
Intel SL-Enh. Pentium 90Mhz(2.9V/3.3V)	Yes	Yes
Integrated Coprocessor	Yes	Yes
Processor Cache	16KB: (8KB code; 8KB data)	16KB: (8KB code; 8KB data)
STORAGE		
Fixed HDD (2.5" Enhanced IDE)	810mb=770MB (13msec)	810mb=770MB (13msec)
Modular FDD (3.5" 1.44MB)	Integrated	Bundled/Swappable with CD
FDD Dimensions	4.47"L x 3.78"W x .6"H	4.47"L x 3.78"W x .6"H
FDD Weight	Weight: .29 lbs	Weight: .29 lbs
Modular CD-ROM: Toshiba XM-1202B		
5.25"Quad-speed (4x)	<i>Optional/Swappable with FDD</i>	<i>Installed/Swappable with FDD</i>
Interface	.ATAPI (Enhanced IDE)	.ATAPI (Enhanced IDE)
Average Access Time	210 ms	210 ms
Sustained Transfer Rate	684 KB/sec	684 KB/sec
Supported Disc formats	CD-DA, CD-ROM, CD-ROM XA, Audio CD, Photo-CD, Multisession, CD-Bridge, CD-I, CD-I Ready, ISO 9660 compliant Disc	
MEMORY: 16Mbit EDO DRAM, 3.3V		
Standard	8MB	8MB
Maximum	40MB	40MB
Speed (hyper-page mode supported)	60ns	60ns
Data width	64 bit	64 bit
BIOS (128KB FLASH EPROM, 150ns)	Yes	Yes
PnP 1.0a SUPPORT	Yes	Yes
DISPLAY		
Type	Dual Scan Color Passive Matrix	TFT Active Matrix Color
Size	11.3" (9"W x 6.75"H)	11.3" (9"W x 6.75"H)
Dot Pitch	.28mm x .28mm	.28mm x .28mm
Contrast Ratio	25:1 (typ); 15:1 (min)	100:1 (min)
VIDEO		
VRAM: 4Mbit DRAM, 5V	1 MB	1 MB
Speed (fast-page mode supported)	60ns	60ns
Controller Chip	C&T CT65548	C&T CT65548
Bus Type	Vesa Local Bus	Vesa Local Bus
Graphics Accelerator	BitBLT support	BitBLT support
Color Palette	262,144 colors	262,144 colors
Internal Resolution	800 x 600 x 256 colors	800 x 600 x 64K colors
Virtual Display Mode	N/A	1024 x 768 x 256 colors
External Resolution ¹	<u>Colors/Palette</u>	<u>Colors/Palette</u>
640 x 480	16.7M colors/16.7M colors	16.7M colors/16.7M colors
800x600	64K colors/64K colors	64K colors/64K colors
1024 x 768	256 colors/256K	256 colors/256K
Refresh Rate(Vert./Hor.) ²	75Hz/60Hz	75Hz/60Hz
KEYBOARD		
82 keys, 3mm Travel	Yes	Yes
12 dedicated function keys	Yes	Yes
Cursor control (8 Keys, Inverted "T")	Yes	Yes
Numeric keypad (Integrated Overlay)	Yes	Yes
Integrated Pointing Device	AccuPoint™	AccuPoint™

¹. SVGA color requires Windows driver included by Toshiba. Simultaneous viewing not provided at resolutions greater than 640 x 480 x 256colors. ². Refresh rate taken @ 1024x768 Non-Interlaced.

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	Satellite Pro 410CS (con.) 810MB: PA1215U-S2A	Satellite Pro 410CDT (con.) 810MB: PA1215U-T2C
EXPANSION SLOTS		
One Stacked PC Card Slot ³	Yes	Yes
Internal Memory Slot	Yes	Yes
EXPANSION PORTS		
One 9-Pin Serial (16550 UART compliant)	Yes	Yes
One 25-Pin Parallel (ECP)	Yes	Yes
One 15-Pin RGB (SVGA video)	Yes	Yes
One 101 Key Keyboard/Mouse port (PS/2)	Yes	Yes
One External Floppy Drive port	Yes	Yes
Microphone (monoaural)	Yes	Yes
Headphone (stereo)	Yes	Yes
Line-in (stereo)	Yes	Yes
Infrared port	Yes: IrDA 115.2Kbps compatible	Yes: IrDA 115.2Kbps compatible
Enh. Port Replicator w/PC card Slots	Optional: Part# PA2711UX	Optional: Part# PA2711UX
POWER		
INTERNAL AC Power Unit		
Input (Voltage/Frequency)	Yes 100-240V; 50-60Hz	Yes 100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 2.0A	15 VDC; 2.0A
Power Output (Watts)	30W	30W
Battery Type: Li-Ion (10.8V, 3600mAH)	Yes: Part# PA2487UR	Yes: Part# PA2487UR
Battery Life	2.5+ hrs.	2.5+ hrs.
Recharge Time (Computer Off/On)	2-3 hrs.(Off) /5-8 hrs.(On)	2-3 hrs.(Off) /5-8 hrs.(On)
MaxTime® Power Management	Yes	Yes
SOUND SYSTEM (All Models)		
W/single front-mounted speaker	16bit stereo. Supports SoundBlaster Pro™, .WAV & MIDI files Chipsets: ESS Technologies ESS688 & Yamaha OPL3 (YMF262)	
DIMENSIONS		
	11.8"W x 9.25"D x 2.2"	11.8"W x 9.25"D x 2.2"
WEIGHT (includes 1.32 lbs. battery)		
	<7.0 LBS.	7.48 LBS.
BUNDLED SOFTWARE (All Models)⁴		
NOTE: Satellite Pro 415CS offers Windows™ 95 only	Choice of Windows 95 or Windows for Workgroups 3.11 and MS-DOS 6.22® w/Special Enhancements; Toshiba Card Manager. ESS Sound System, Indeo™ Video Interactive 4.0; MagiCDisk, Animotion Music Rack, Enhanced IDE Disk Driver, Puma TranXit (Infrared software)	
SECURITY (All Models)		
	Kensington® slot, Power-on password, screen blank, keyboard lock	
WARRANTY		
	3 YR Parts & Labor	3 YR Parts & Labor
ENVIRONMENTAL SPECIFICATIONS		
(All Models)		
	<u>Operating</u>	<u>Non-operating</u>
Temperature:	41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149° (65°C)
Thermal Gradient 20°C per hour (max.)	N/A	N/A
Relative Humidity:	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft.	-197 to 32,808ft.
Shock:	10G	60G
Vibration:	0.25G	1G

³. Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III. ⁴. Satellite Pro 415CS (Part# PA1215U-S6A) is the Retail equivalent of the Satellite Pro 410CS, but comes with a 1 year warranty and the following additional software: ClarisWorks™ 3.0 version 2, Lotus Organizer™ 2.01, and Quicken SE™ 1.0.