

All Details inside: Portégé 3xxx Series

- Technical Specification
- Features & Benefits
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Choose freedom.



Processor	Model	Processo	r		Clock spe	eds	
	Portégé 3480CT	processor	bile Pentium 600 MHz, nd level cach	-		nterna	lly (power mode) lly (battery saving Side Bus
	Portégé 3440CT	processor	bile Pentium 500 MHz, nd level cach	-	500 MHz i 100 MHz i	nterna	lly
	Portégé 3410CT	processor	bile Celeron¹ 400 MHz, nd level cach		400 MHz i 100 MHz i		
BIOS	Plug and Play Suppor	t	Yes				
5.00	Advanced Power Man		Yes (Ve	ersion	1 2)		
	ACPI enabled	agomon	Yes (Ve				
	SM BIOS Support		Yes (Ve				
	DPMS Support		Yes		- /		
	Vesa Support		Yes (Ve	ersion	2.0)		
Suctor momony	Momony type	Amount		A	an anod		Data bus width
System memory	Memory type SDRAM	64 MB			ess speed		64-bit
	Maximum memory expansion (SDRAM)	192 MB		9 nar	noseconds		64-bit
	BIOS Flash EPROM	512 KB		100 r	nanosecon	ds	8-bit
	Video RAM (EDO)	8 MB					64-bit
Mamani	Taskaslasu			Curre			
Memory	Technology No. of memory expansion	nion alota		3yric	hronous D		5.5 VOI()
	Expansion module siz			•	nd 128 MB		
External diskette drive	Specification		High settir	-			setting
	Media supported		3.5 inch 2H	ID			ch 2DD
	Storage capacity		1.44 MB			720 K	
	Rotation		300 1/min			300 1	
	Transfer rate		500 kbit pe	r secc	ond		bit per second
	Bytes per sector		512			512	
	Sectors per track		18			9	
	Dimensions		103 x 140 >	(17.6	mm		
	Weight		220 gr.				
	Connection		Via USB				
Hard disk	Portégé 3480C						
	Formatted capacity (b	illion byte)		12.0*	ŧ		
	Max. data transfer to r	• •			0 153 Mbps		
	Average seek time				s read/write		
	Track-to-track seek tir	ne		3 ms		-	
	Drive rotation				1/min		
	No. of disks			2 (ph	ysical)		
	No. of read/write head	s		4 (log			
	Bytes per sector			512			
	Interleave			1:1			
	Interface			Ultra	ATA (Enha	anced	IDE)
	Height			9.5 n	nm		

Hard disk (cont.)	Portégé 3410CT/3440CT	
	Formatted capacity (billion byte)	6.0*
	Max. data transfer to media	Up to 153 Mbps
	Average seek time	12 ms/13 ms read
	Track-to-track seek time	3 ms
	Drive rotation	4200 1/min
	No. of disks	1 (physical)
	No. of read/write heads	2 (logical)
	Bytes per sector	512
	Interleave	1:1
	Interface	Ultra ATA (Enhanced IDE)
	Height	9.5 mm
Interferer		
Interfaces	External monitor	
	Universal Serial Bus (USB)	
	Fast Infrared Port	
	RJ 11 modem jack	
	Headphone	
	External microphone	
	DC-in	
	Network I/O Adapter (bundled with Portég	né 3440CT / 3480CT) :
	External monitor	<b>, , , , , , , , , ,</b>
	Parallel (ECP)	
	Serial (RS-232C Compatible / 16550 UART)	
	PS/2 mouse/keyboard	
	Universal Serial Bus (USB)	
	RJ45 (Ethernet port) including on/off switch	
	DC-in (Power connector)	
	I/O Adapter (bundled with Portégé 3410C	T) :
	External monitor	
	Parallel (ECP)	
	Serial (RS-232C Compatible / 16550 UART)	
	PS/2 mouse/keyboard	
	Universal Serial Bus (USB)	
	DC-in (Power connector)	
	Line-out (Audio out)	
Display	Portégé 3410CT/3440CT	
Display	Screen type	11.3" TFT Colour Poly-silicon LCD
	Number of dots	1024 x 768
	Dot pitch	0.225 x 0.225 mm
	Diagonal	
	Contrast ratio	11.3 inch (28.7 cm)
		100 : 1 (typical)
	Colour palette Response rise/fall	up to 256000 (16.7 million with dithering) 30 ms / 50 ms
	LCD brightness (Super Bright /AC)	120 cd/m <sup>2</sup>
	LCD brightness (Super Bright / battery)	100 cd/m <sup>2</sup>
	Portégé 3410 CT	
	Screen type	10.4" TFT Colour Poly-silicon LCD
	Number of dots	800 x 600
	Dot pitch	0.264 x 0.264 mm
	Diagonal	10.4 inch (26.4 cm)
	Contrast ratio	100 : 1 (typical)
	Colour palette	up to 256000 (16.7 million with dithering)
	LCD brightness (Super Bright / battery)	100 cd/m <sup>2</sup>

Graphics adaptor	S3 Savage IX					
	Memory size			8 MB VRAM		
	BitBIT			128-bit		
	Connected bus			AGP x2 bus		
	Bus clock speed			66 MHz		
	2 D graphics accelerator			Yes		
	3 D graphics acc			3D assist for Z-E	Buffer	
	Open GL suppor			Yes		
	Direct 3D suppor			Yes		
	Motion compense			Yes		
	Integrated TV En			NTSC/PAL		
	Reduce TV out F			3Tap		
	Multiple display s	support		Yes		
Video modes	Video display	Resolution		Max. number o	fcolours	Max. refresh rate
VIGEO INOUES	Internal	640 x 480		Up to 16.7 millio		Max. refresh fate
	display SVGA	040 × 400		001010.7111110		
		800 x 600		Up to 16.7 millio	n colours	
		1024 x 768		Up to 16.7 millio		
		(virtual with Po				
		3410CT)	nogo			
		1280 x 1024 (v	virtual	Up to 64 K colou	urs	
		display)		op to o 111 oolot		
		1600 x 1200		Up to 64 K colou	urs	
	External	640 x 480		Up to 16.7 millio		Up to 85 Hz
	display SVGA			·		
		800 x 600		Up to16.7 millior	n colours	Up to 85 Hz
		1024 x 768		Up to16.7 millior	n colours	Up to 85 Hz
		1280 x 1024		Up to 64 K colou	urs	Up to 75 Hz
		1600 x 1200		Up to 64 K colou	urs	Up to 60 Hz
	<b></b>		• .			
Communication	Modem**			ted international		
	Support Protocol			56flex, V1.1, V	17, 14.4KD	ps Fax, 56 Kbps data
	Ring Wake-up R Ports	esume	Yes RJ-11			
	1 0113		110-11			
Size and Weight	Weight			1.55 kg		
oize and weight	Size (W x L x H)			0	1 x 22* mm	n (*average thickness)
				202 x 20		r ( average montess)
Battery types	Main			RTC		
	Lithium-ion			NiH		
	10.8 V x 3000 m	Ah		2.4 V x 1	1 mAh	
	Optional high c	apacity battery				
	10.8 V x 5600 m	Ah				
_	las s					
Resume battery	Main			4 days (	•• •	
	RTC			1 month	(typical)	
Battery life	Maximum batten	life with main h	attory	Up to 3 hrs		
Battery me	Attery life Maximum battery life with main battery Maximum battery life with optional high			8.5 hrs		
	capacity battery			0.0 1113		
	sony banony	Jan Satory				
AC adaptor	Input voltage			100 – 240 V AC, self-adjusting for world wide		
•				Usage		
	Frequency			50 – 60 Hz		
	Output voltage			15 V		
	Output current			3.0 A		
	Power dissipation Weight		45 W			
			300 g			
	DC-in on system	unit and on Net	work I/O	Adapter or I/O A	Adapter	

Expansion		irds or 1 Type III card, CardBu	IS	
	1 memory expansion slot			
Sound system	16-bit, SoundBlaster Pro compatible Integrated speaker Internal microphone which is disabled when an external microphone is connected			
	MIDI & 3 D sound support			
	Volume control by dial			
Bundled software	Pre-installed operating system: Microsoft® Windows® 95 and Windows® 98 selectable installation or Windows® NT 4.0 and Windows® 2000 selectable installation on request for an additional charge (limited language versions available)			
	Toshiba utilities and drivers			
	PC Card Management softw	are		
	Toshiba Hibernation Utility			
	On-line help (User's Manual	and modem Manual		
<b>B</b>				
Bundled Hardware	AC adapter			
	External FDD (via USB)			
	Network I/O Adapter with Port	•		
	I/O Adapter with Portégé 34	1001		
Keyboard	Key pitch	18 mm		
Reyboard	Key stroke	2 mm		
	Keyboard standard	IBM PS/2 102 keys		
	No. of keys			
		86 Also operational if external device connected		
	Special features	-		
		Euro symbol on keyboa	ard	
Environmental		Operating	Non-operating	
	Temperature			
conditions	Temperature Max, thermal gradient	5 °C to 35 °C	-20 °C to 65 °C	
	Max. thermal gradient	5 °C to 35 °C 15 °C/hour	-20 °C to 65 °C 20 °C/ hour	
		5 °C to 35 °C 15 °C/hour 20 % to 80 %	-20 °C to 65 °C 20 °C/ hour 10 % to 90 %	
	Max. thermal gradient	5 °C to 35 °C 15 °C/hour	-20 °C to 65 °C 20 °C/ hour	
	Max. thermal gradient Relative humidity	5 °C to 35 °C 15 °C/hour 20 % to 80 % non-condensing	-20 °C to 65 °C 20 °C/ hour 10 % to 90 % non-condensing	
	Max. thermal gradient Relative humidity Altitude	5 °C to 35 °C 15 °C/hour 20 % to 80 % non-condensing -60 to 3,000 m *	-20 °C to 65 °C 20 °C/ hour 10 % to 90 % non-condensing -60 to 10,000 m	
	Max. thermal gradient Relative humidity Altitude (relative to sea level)	5 °C to 35 °C 15 °C/hour 20 % to 80 % non-condensing -60 to 3,000 m * (-200 to 10,000 feet) *	-20 °C to 65 °C 20 °C/ hour 10 % to 90 % non-condensing -60 to 10,000 m (-200 to 30,000 feet)	
	Max. thermal gradient Relative humidity Altitude (relative to sea level) Shock Vibration	5 °C to 35 °C 15 °C/hour 20 % to 80 % non-condensing -60 to 3,000 m * (-200 to 10,000 feet) * 10 G	-20 °C to 65 °C 20 °C/ hour 10 % to 90 % non-condensing -60 to 10,000 m (-200 to 30,000 feet) 60 G 1 G	
	Max. thermal gradient Relative humidity Altitude (relative to sea level) Shock Vibration	5 °C to 35 °C 15 °C/hour 20 % to 80 % non-condensing -60 to 3,000 m * (-200 to 10,000 feet) * 10 G 0.5 G	-20 °C to 65 °C 20 °C/ hour 10 % to 90 % non-condensing -60 to 10,000 m (-200 to 30,000 feet) 60 G 1 G	
	Max. thermal gradient Relative humidity Altitude (relative to sea level) Shock Vibration * Aeroplane cabin pressures sin Toshiba declares that these observed for CE marking. C Hammfelddamm 8, 41460 N	5 °C to 35 °C 15 °C/hour 20 % to 80 % non-condensing -60 to 3,000 m * (-200 to 10,000 feet) * 10 G 0.5 G nulate low altitudes, so there are n products comply with the follo E marking is the responsibility euss, Germany, Tel. +49-213	-20 °C to 65 °C 20 °C/ hour 10 % to 90 % non-condensing -60 to 10,000 m (-200 to 30,000 feet) 60 G 1 G to restrictions on flying higher. wing directives / standards to be of Toshiba Europe, 1-15801. For detailed information	
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#### **Features & Benefits**

Processor	Feature Intel® Mobile	Benefit The Intel® Mobile Pentium® III at 600 MHz featuring SpeedStep <sup>™</sup> is optimized for this thin and light product
	Pentium® III at 600	is optimized for this thin and light product.
	MHz featuring SpeedStep™ technology with	It offers two performance modes, which switch automatically depended on the power supply you use.
	Portégé 3480CT	Maximum performance mode provides all the power performance hungry applications need
		Battery optimised mode provides the best balance between performance and battery life. The clock speed is reduced to 500 MHz then.
	Intel® Mobile Pentium® III processor 500 MHz with Portégé 3440CT	The advanced Intel® Mobile Pentium® III at 500 MHz processor enables your PC to handle multiple tasks simultaneously and offers enough power even for advanced business and graphics applications
	Intel® Mobile Celeron™ processor 400 MHz with Portégé 3410CT	The Intel® Mobile Celeron™ processor offers enough resources for all current office applications and business to business presentations
	Ĵ	This processor features optimised price / performance ratio
Memory	Feature	Benefit
	Standard 64 MB SDRAM	64 MB S DRAM are ideal for Windows to run powerful, memory intensive software at a comfortable speed, protecting you from future memory-intensive tasks
	1 free memory slot	A larger amount of memory improves the operating speed
	Expandable to 192 MB	Enough expansion room for demanding user
	512 KB Flash	Flash EPROMs allow user to quickly update BIOS if necessary
	EPROM	without returning machine to supplier - just by updating via software
	64 MB or 128 MB	Faster manipulation of software and data stored in memory
	memory modules (optional)	User can easily upgrade memory when need arises
Hard disk drive	Feature	Benefit
	12 GB* hard disk drive with Portégé	Huge storage capacity for demanding users
	3480CT	12 GB offers enormous storage capacity for all kind of data
	6 GB* hard disk drive with Portégé 3410CT	Provides large storage capacity for multiple programs and data
	/ 3440CT	6 GB* offers enough storage capacity for applications, graphics, audio files or large presentations
	12 ms average access time and 1:1 interleave	Fast access to programs and data stored on hard disk A fast access to the hard disk ensures an improved overall system performance
	Low-power modes	Longer battery operating life
		User can choose the settings via software
	S.M.A.R.T hard disk technology	Hard disk with integrated self-testing functionality: The hard disk is capable to send out a report when failure occurs if manageability software is installed

External diskette drive	Feature	Benefit
	3.5" diskette drive via USB	Provides small, durable, industry-standard media for portable environment
		Reads from and writes to 3.5" 720 KB and 1.44 MB diskettes
Display	Feature	Benefit
	TFT Poly-silicon colour screen	Extremely bright, sharp and fast screen with high contrast and wide view angle
		Up to 16.7 million colours on the TFT screen
	Poly-silicon Technology	Thinner and lighter display with less connectors to the LCD giving better protection against mechanical damage
		Higher light transmission allows to use more efficient back light units with very low power consumption
	11.3" TFT Poly- silicon colour screen on Portégé 3440CT /	Bright and non-flickering enhances working condition and reduces eye strain
	3480CT	Internal screen resolution of 1024 x 768 with 24-bit colour depth (16.7 million colours)
	10.4" TFT Poly- silicon colour screen on Portégé 3410CT	Bright and non-flickering enhances working condition and reduces eye strain
	Ŭ	Internal screen resolution of 800 x 600 with 24-bit colour depth (16.7 million colours)
Graphics sub-system	Feature	Benefit
Graphics Sub-System	S3 Savage IX/8	Offers the highest performance and boasts superior graphics with a 64-bit architecture
	Advanced video controller with SVGA resolutions	Ideal for presentations on large monitors or data projectors or for work with design or DTP programs in the office or on the road.
	Resolution	1024 x 768 x 16.7 million colours internal resolution (3440CT) 800 x 600 x 16.7 million colours internal resolution (3410CT) 1600 x 1200 x 65.536 colours external resolution
	8 MB video RAM	Provides leading edge performance along with the highest image quality
	Video graphics accelerator	Ensures that graphics are generated quickly on screens to take advantage of Graphical User Interfaces such as Windows
	Dual display mode	Allows user to show data and presentations to colleagues or customers on an external monitor or beamer while controlling the procedure from the internal screen and keyboard
	Multiple monitor mode	Work with different resolutions on different devices – allows high resolution internally and lower resolution on external devices unable to support higher resolutions (depending on QS support – may

require extra hardware)

to support higher resolutions (depending on OS support - may



Kardia and	<b>F</b> actoria	
Keyboard	Feature	Benefit
	Full-function keyboard	Long travel ensures faster, more comfortable data entry
	Windows <sup>®</sup> keys	Significantly enhances Windows <sup>®</sup> 95 or 98 ease of use
	Euro sign	The Euro currency sign is printed on the keyboard
	8 cursor keys	Allow fast, convenient cursor positioning
	12 function keys and embedded keypad	Provide desktop keyboard functionality and greater productivity
	8 hot keys	Allow users to change set-up features and HotLock security direct from the keyboard
	Palm-rest for hands	Allows easy comfortable typing, even where there is no flat surface
Pointing device	Feature	Benefit
-	AccuPoint™ II	User friendly pointing device for precise control of cursor
		Two additional programmable scroll buttons for convenient scrolling through large documents or web sites
		No protruding extras when travelling
Interfaces	Feature	Benefit
interfaces	Microphone	Enables connection of a microphone for audio input
	Headphone	Enables connection of a stereo headphone for audio output
	Fast infrared port	Wireless bi-directional transmission of files between many types of
	r ast initialed port	devices incl. PCs, printers, PDAs, modems, telephones
		Up to 4 Mbps transfer rate
		Supports multiple connections and IR networking
		Low power consumption
		IrDA compliant industry-standard
	External monitor port	Provides high-resolution (up to 1600 x 1200 dots) display of colour and graphics on external monitor for sharp images
	USB port	Enables connection of USB-based mobile and desktop expansion devices
		Allows connecting the bundled USB floppy disk drive
	Network I/O Adapter with Portégé 3440CT	Allows you to leave unnecessary ports at home
	/ 3480CT	Adds a serial, parallel, external monitor, PS/2 mouse/keyboard port, RJ45 (Ethernet port) including on/off switch, line-out, DC-in and USB port to your system
		Allows hot docking, providing an one touch solution
	I/O Adapter with	Allows you to leave unnecessary ports at home
	Portégé 3410CT	Adds a serial, parallel, external monitor, PS/2 mouse/keyboard port, line-out, DC-in and USB port to your system
		Allows hot docking, providing an one touch solution

Expansion slots	Feature	Benefit
	2 Type II or 1 Type III PC Card (PCMCIA) slot	Provides mobile communication and expansion in a credit-card- sized format
		Can be used for a wide range of communication and expansion modules such as modems, network adaptors, flash memory cards and removable hard disks
	CardBus support	Allows access to all the latest, high performance PC Card expansion devices
Design	Feature	Benefit
	B5 format notebook design	Especially designed for the highly mobile user.
	Magnesium casing	Very robust casing for the heavy mobile user.
		Superior stylish design with silver lid.
		Ensures that clip-on devices are anchored securely
Power system	Feature	Benefit
	Lightweight removable,	Higher capacity than other battery types, hardly any memory effect
	rechargeable lithium- ion battery pack	Low environmental impact
		Offers an extended battery life
	Toshiba Power	Allows user to specify when power-hungry components should be
	Extensions Toshiba Hibernation	shut down to make most efficient use of available battery power
	utility	Allows you turn off the power without exiting from your software
		The contents of main memory is saved to the hard disk, when you turn on the power again, you can continue working right where you left off
	Intelligent power supply	Provides easy access for monitoring battery life with battery "gas gauge," invoked through pop-up menu
	System reset button	Allows rebooting without cycling power and without keyboard use (functions even when keyboard is locked)
Multiple security system	Feature	Benefit
	Two system password security levels	Stops unauthorised access to data and software when power is switched on
		Allows supervisors to control which options users work with
	Hard disk password	Hard disk password utility allows only authorised users to access data on the hard disk, even if the hard disk is removed and used in another computer
		This utility is supplied only on request
	Secure Sleep security	Instant security with a screen blank and keyboard/mouse lock-out using the F1 hot key
	Kensington	Hardware-based theft prevention. The computer can be physically
	MicroSaver provision	
	Power on button lock	Prevents from powering on/off the machine by mistake

Special features	Feature	Benefit
	Hardware Setup	Allows to customise your hardware settings according to the way you work with your computer and the peripherals you use
	Built-in sound system	Provides audio support to visuals
		16-bit Sound Blaster Pro compatible sound card
	Hot keys	Allow users to change various system configuration options any time, at the press of a key
	LED icons	Users can see the status of the machine with lid closed
Toshiba support	Feature	Benefit
	1-year International Warranty	Repair without costs for registered users at any authorised Toshiba service point
Options	Feature	Benefit
	64 MB and 128 MB SDRAM memory modules	Permits convenient, easy-to-install memory expansion for memory- intensive software applications
	Optional high capacity battery	Increases battery life while on the road up to 8.5 hrs
		This give one full working day without the need of an AC adaptor
	Quick battery charger	One battery can be charged using the quick battery charger while the other is in use to extend overall operating time
	MultiMedia Port Replicator	Features a SelectBay tray, network chip, and all ports, which are needed
		Allows to use CD, DVD, secondary HDD SelectBay modules, which are also used by Tecra 8100
	DVD SelectBay module***	It allows to play DVD's in combination with the MultiMedia Port Replicator
		Reads both standard CD's and next generation DVD-ROM's
		DVDExpress software is bundled
	CD SelectBay module	Reads all modern CD-ROM formats

\* One GB means one billion bytes

\*\* To be used in countries where approved

\*\*\* Please note: Playing DVD videos on Windows® NT 4.0 is not possible

#### **Options**

PA3033U-1M0664 MB memory kitPA3033U-1M07128 MB memory kitPowerPA NumberPA NumberArticlePA3035E-1ACAUniversal AC adapterPA3038U-1BRLBattery pack (as bundled)PA3039U-1BRLHigh capacity packPA2513UEBattery chargerConnectivityPA NumberArticlePA3040U-1PRPPA3040U-1PRPNetwork I/O AdapterPA3041U-1PRPV/O AdapterPA3042E-1DSTMultiMedia Port ReplicatorSelectBay modules for MultiMedia PortPA NumberArticlePA3012U-1H06PA3012U-1H1212 GB* Hard Disk drive Kit IIPA3027U-1H1212 GB* Hard Disk drive Kit IIPA3029U-1DTRSelectBay Hard Disk drive Adapter IIPA3014E-1DVDDVD-ROM drivePA3015U-1CDDCD-ROM drivePA3015U-1CDDCD-ROM drive2793009CD-RM drive2793004Zip drive	Memory	PA Number	Article
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PA3014E-1DVDDVD-ROM drivePA3015U-1CDDCD-ROM drive2793009CD-RM drive2793006LS 120 SuperDisk drive		PA3029U-1H18	18 GB* Hard Disk drive Kit II
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2793004 Zip drive			
		2793004	Zip drive