

	Portégé R600-13X
Operating system	Windows® 7 Professional 32-bit (pre-installed, Toshiba-HDD recovery) + Downgrade to Windows® XP Professional (Toshiba-Recovery DVD) .
System memory	standard : 3,072 (1,024 onboard + 2,048) MB. maximum expandability : 5,120 MB. technology : DDR2 RAM (800 MHz) .
Hard disk	capacity : 320 GB. drive rotation : 7,200 rpm.
Display	size : 30.7cm (12.1") . WXGA Transflective TFT display with LED backlight technology . internal resolution : 1,280 x 800 .
Graphics adapter	Mobile Intel® GMA 4500MHD . memory amount : up to 1,332 MB total available graphics memory with 3 GB system memory .
BIOS	ACPI : Yes . Advanced Power Management : No . manufacturer : Toshiba . Plug and Play Support : Yes . System Management BIOS : Yes . VESA Support : Yes .
DVD Super Multi drive	buffer size : 2 MB. compatibility : CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM . maximum speed : Read: 24x CD-ROM, 8x DVD-ROM/ Write: 24x CD-R, 4x CD-RW, 10x HS CD-RW, 10x US CD-RW, 8x DVD-R, 4x DVD-RW, 8x DVD+R, 4x DVD+RW, 3x DVD-RAM . Ultra-slim DVD Super Multi drive . weight : 92 g.
Technology	2nd level cache : 3 MB. clock speed : 1.4 GHz. front side bus : 800 MHz. Intel® Centrino® 2 with vPro™ technology featuring Intel® Core™ 2 Duo processor SU9400, Intel® GS45 Express chipset and Intel® WiFi Link 5100 .
Internal video modes	resolution : 1,280 x 800 .
Max. external video modes	max. resolution : 1,920 x 1,200 . max. refresh rate : 100 Hz. non-interlaced resolution with max. refresh rate : 1,280 x 1,024 .
Interfaces	1 x eSATA/USB 2.0 Sleep-and-Charge . 1 x SD Card slot . 1 x external monitor . 1 x DC-in . 2 x USB 2.0 . 1 x integrated VGA Web Camera . 1 x built-in microphone . 1 x headphone (stereo) . 1 x external microphone . 1 x RJ-45 .
Expansion	1 x ExpressCard slot . 1 x memory slot . 1 x connects to Slim Port Replicator III (optional) .
Wireless communication	Wireless Technology : Bluetooth® . Compliance : 3G . Network Support : UMTS/HSPA at 2100 MHz and GSM/GPRS/EDGE quad bands at 850/900/1800/1900 MHz . Manufacturer : Ericsson . Wireless Technology : Mobile broadband WWAN/3G (HSDPA 7.2Mbps / HSUPA 2Mbps) . Compliance : Wi-Fi™ . Network Support : 802.11a/g/Draft-N . Manufacturer : Intel® . Wireless Technology : Wireless LAN (802.11a/g/Draft-N) . Version : Intel® WiFi Link 5100 .
Wired communication	topology : Gigabit Ethernet LAN . speed : 10BASE-T/100BASE-TX/1000BASE-T . connector : RJ-45 .
Keyboard	keys : 86 . Windows keys : Yes . special features : spill-resistant keyboard .
Pointing device	Touch Pad .
Battery	technology : lithium-ion . maximum life : up to 8h25min (Mobile Mark™ 2007) .
AC adapter	input voltage : autosensing AC adapter (100/240 V) for worldwide usage . output voltage : 15 V. output current : 3 A.
Physical dimensions	W x L x H : 283 x 215.8 x 19.5 (front) / 25.5 (rear) mm. weight : starting at 1.114 kg.
Sound system	supported audio format : 24-bit stereo . speakers : built-in speaker .
Warranty	1 year EMEA Carry-in. Toshiba also offers a large range of services to upgrade your standard warranty, please have a look at our website www.toshiba-europe.com/services to find the right service for your product .
Bundled hardware	AC adapter .
Bundled software	free 60-day trial of Microsoft® Office Professional 2007 . Toshiba Assist . Toshiba Security Assist . Toshiba Bluetooth™ Monitor . Toshiba Bluetooth™ Stack . Chicony Camera Assistant Software . Toshiba DVD Player . Toshiba Face Recognition . McAfee® Internet Security Suite - Toshiba Edition (includes free Internet updates for 30 days) . Toshiba Recovery Media Creator . Toshiba User's Manual . ConfigFree™ . Toshiba utilities and drivers . Toshiba Disc Creator . Google Toolbar . Toshiba Value Added Package (Toshiba Power Saver, Toshiba Zooming Utility, Toshiba PC Diagnostic Tool, Toshiba Flash Cards, Toshiba Components Common Driver, Toshiba Accessibility, Toshiba Button Support) . Toshiba Photo Service .

Toshiba EasyGuard - Security	Toshiba Device Access Control (on request) .Execute Disable Bit (XD-Bit) .Wireless log-on via Bluetooth® mobile phone .Advanced Encryption (TPM) .Antivirus Software .Toshiba Security Assist .Fingerprint Reader-Single Sign On .Computrace® enabled BIOS .Password Utilities .
Toshiba EasyGuard - Protection	Spill-resistant Keyboard .HDD Protection and 3D accelerometer .Toshiba Anti-theft Protection Timer .Shock Protection Design .Easy Fix Components .Durable Design .PC Diagnostics .Kensington Lock .Data Backup .
Toshiba EasyGuard - Connectivity	Diversity Antenna .Voice over IP ready .Video over IP ready .Toshiba ConfigFree™ .Mobile Broadband WWAN / 3G-ready connectivity .Bluetooth® .Wireless LAN (802.11a/b/g/N) .Wireless Communication Switch .
Toshiba EasyGuard - Manageability	Intel®Active Management Technology .Port Replicator (optional) .Toshiba TEMPRO Performance Tuning Service .PC Health Monitor .Eco Utility .Dynadock™USB Port Replicator™ (optional) .Virtualization Technology .Toshiba Power Saver Utility .Toshiba Management Console .
Security features	BIOS password .main memory (by screw) .keyboard lock .main hard disk (by screw) .system password security .user password .supervisor password .HDD password on request .main battery pack (by sliding latch) .
Special features	integrated microphone for VoIP .Toshiba Assist button .Transflective on/off button .integrated VGA Web Camera for Video over IP .HD Audio supporting .SM BIOS compliant .Enhanced Intel® SpeedStep® Technology .
Casework	magnesium + polycarbonate ABS .
Certification	The manufacturer declares that this product complies with the following directives and regulations for the CE-marking. Responsible for CE marking is Toshiba Europe GmbH, Hammfelddam 8, 41460 Neuss, Germany .

CPU performance may vary from specifications under certain conditions such as the use of battery instead of AC power, certain external peripherals, certain multimedia applications or network connections, complex modeling software and in areas with low air pressure at high altitude (1,000 metres above sea level) and/or certain temperatures. CPU performance may also vary from specifications due to design configuration. Under some conditions, your computer may automatically shutdown as a normal protective measure. To avoid risk of data loss, please make periodic back-up copies. For optimum performance, use your computer only under recommended conditions. Please read detailed restrictions in the product resource guide, visit the Toshiba web site www.computers.toshiba-europe.com and/or contact Toshiba Technical Support. Graphics processor unit (GPU) performance may vary depending on product model, design configuration, applications, power management settings and features utilized. Part of the main system memory may be used by the graphics system and therefore reduce the amount of main system memory available. For PCs configured with 4 GB of system memory, the full system memory space for computing activities will be considerably less and will vary by model and system configuration. For information about upgrading your system memory please refer to the user manual or contact your local Toshiba service provider. One GB means one billion bytes, accessible capacity may be less. Wired and wireless communication capabilities to be applied in countries where approved. Battery life may vary depending on applications, power management settings and features utilized. Recharge time varies depending on usage. Battery may not charge while computer is consuming full power. After a period of time, the battery will lose its ability to perform at maximum capacity and will need to be replaced. This is normal for all batteries. To purchase a new battery pack, see your accessories information furnished with your computer or visit the Toshiba web site at www.computers.toshiba-europe.com. Small brightside may appear on your TFT display when you turn on your PC. Your display contains an extremely large number of thin-film transistors (TFT) and is manufactured using high-precision technology. Any small brightside that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected. Please check your system specifications to ensure optimal results. Certain notebook chassis are designed to accommodate all possible configurations for an entire product series. Your selected model may not have all the features and specifications corresponding to all of the icons or switches shown on the notebook chassis. Performance may vary depending on product model, configuration, video content format settings as well as the performance variations of individual hardware components. Results were achieved on select models and configurations tested by Toshiba at the time of publication.

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