

Portégé R600 Detailed Product Specification¹

Model Name	Description	Part Number	UPC
R600-S4211	Genuine Windows® XP Professional, SP3 , Intel® Core™ 2 Duo Processor SU9400, 3GB DDR2, 160GB HDD, DVD-SuperMulti, 12.1" widescreen WXGA, Intel® Wireless WiFi Link 5100AGN, Webcam, Bluetooth v2.1 + EDR, 3 year standard limited warranty (1-year warranty on battery)	PPR60U-048034	883974332625

Operating System ^{C1 2}

- Genuine Windows® XP Professional, SP3
 - Recovery media for Genuine Windows® 7 Professional

Processor and Chipset³

Intel® Centrino® 2 processor technology featuring:

- Intel® Core™ 2 Duo Processor SU9400
 - 1.4GHz, 3MB L2, 800MHz FSB with 64-bit ^{C1}
- Chipset
 - Mobile Intel® GS45 Express Chipset
- Integrated Wi-Fi® compliant wireless LAN
 - Intel® Wireless WiFi Link 5100AGN (802.11a/g/n)⁴

Memory⁵

- Configured with 3GB PC2-6400 DDR2 SDRAM
- 3GB (Min)/5GB (Max), 1GB on motherboard with one memory slots occupied with 2GB PC2-6400 memory module

Storage Drive Capacity⁶

- 160GB (5400 RPM) Serial ATA hard disk drive; 9.5mm height

Fixed Optical Disk Drive⁷

- DVD SuperMulti (+/-R) drive supporting 9 formats
 - Maximum speed and compatibility: CD-ROM (24x), CD-R (24x), CD-RW (10x), DVD-ROM (8x), DVD-R (8x), DVD-RW (4x), DVD+R (8x), DVD+RW (4x), DVD-RAM (3x)

Display⁸

- 12.1" diagonal widescreen high brightness display at 1280 x 800 resolution(WXGA) - Transreflective type
 - LED sidelight

Graphics⁹

- Mobile Intel® Graphics Media Accelerator 4500MHD with 128MB-1340MB dynamically allocated shared graphics memory

Sound

- Built-in monaural speaker
- Sound Volume Control Dial
- Built-in microphone

Input Devices

- 85 key US keyboard
- TouchPad™ pointing device
- Control Buttons:
 - Toshiba Assist button
 - Toshiba Outdoor Display Switch

Communications

- Integrated Webcam
- Intel® PRO/1000 - 10/100/1000 Ethernet
- Integrated Intel® Wireless WiFi Link 5100AGN (802.11a/g/n)¹⁰
- Bluetooth® version 2.1 plus Enhanced Data Rate (EDR)

Expandability

- ExpressCard™ slot
- Secure Digital (SDHC) slot

Ports

- Video
 - RGB (monitor) output port
- Audio
 - Microphone input port
 - Headphone output port
- Data
 - USB v2.0 – 3 ports

- 2 x USB v2.0
- 1 x eSATA/USB combo port sleep and charge¹¹
- 64-pin docking connector
- Supported on Toshiba Slim Port Replicator III
 - DVI-D output port
 - USB v2.0 – 6 ports
 - Audio In
 - Audio Out
 - DC-IN
 - LAN (RJ45)
 - RGB
- Security
 - Fingerprint reader

Physical Description

- Dimensions (WxDxH Front/H Rear): 11.1" x 8.5" x 0.77"(f)/1.0"(r) with feet
- Weight: Starting at 2.46 lbs depending upon configuration¹²
- LCD Cover Color: Aluminum Silver

Power

- 45W (15V x 3A) 100-240V AC Adapter.
- Dimensions (WxDxH): 3.66" x 1.09" x 1.57"
- Weight: starting at 0.4 lbs

Battery¹³

- (5800mAh) Lithium Ion battery pack
- Dimensions (WxDxH): 8.1" x .79" x 1.72"
- Weight: starting at 0.69 lbs
- Battery Life (measured by MobileMark™)¹⁴
 - Included 6-cell battery: 7 hours, 32 minutes

Toshiba EasyGuard®¹⁵

- Protect & Fix
 - Shock Absorbing Design¹⁶
 - HDD Shock Absorber
 - LCD Panel Shock Absorber
 - Chassis Shock Protector
 - Hard Disk Drive Protection
 - 3D Accelerometer
 - HDD Dome Shock Protector
 - HDD Shock Absorber
 - Spill-Resistant Keyboard¹⁷
 - Magnesium Alloy Casework
- Secure
 - Multiple-Level Password Utilities
 - Fingerprint Reader (includes software for password and identity management)
 - AuthenTec EntréPad® TruePrint® technology
 - Infineon TPM Software Professional Package
 - Trusted Platform Module (TPM v1.2)
 - TOSHIBA Secure Digital Token Utility
 - Execute Disable Bit
 - Optional Services and Accessories (additional purchase required)
 - CompuTrace®
- Connect
 - Diversity Antenna
 - TOSHIBA ConfigFree®
 - Voice-over-IP Ready Design
 - TOSHIBA Bluetooth® Stack
- Optimize
 - TOSHIBA Zooming Utility
 - One-touch Resolution Change
 - TOSHIBA Power Saver Utility
 - TOSHIBA Optical Disc Drive Power On/Off Utility

- o Wireless On/Off Switch
- o TOSHIBA Fn-esse® Shortcut Utility
- o TOSHIBA Mouse Utility
- o FN Shortcut Keys

BIOS

- ACPI v2.0, PNP, VESA, SM BIOS v2.5, PCI BIOS v2.1 support

Software ^{C1} 18

- Toshiba Software and Utilities
 - o Electronic User's Guide
 - o Bluetooth Stack for Windows by Toshiba
 - o TOSHIBA ConfigFree®
 - o TOSHIBA Management Console
 - o TOSHIBA Assist
 - o TOSHIBA Security Assist
 - o TOSHIBA Disc Creator
 - o TOSHIBA Recovery Disc Creator
- Third-party Software
 - o Sun® Java™ 2 Runtime Environment
 - o Adobe® Acrobat® Reader
 - o InterVideo® WinDVD®
 - o Google™ Desktop
 - o Google™ Toolbar
 - o Google™ Picasa™
 - o Infineon TPM Software Professional Package
 - o AuthenTec EntréPad® TruePrint® technology
 - o Ulead® DVD MovieFactory® for TOSHIBA
- Trial Software
 - o Microsoft Office Ready with Microsoft Office Professional 2007 60-day Trial Edition
 - o Norton Internet Security™ 2008
- Special Offers
 - o Computrace® LoJack® for Laptops (BIOS Enabled)

Environmental Specifications

	Operating	Non-operating
Temperature ¹⁹	5° to 30°/35° C (41° to 86°/95° F)	-20° to 65° C (-4° to 149° F)
Thermal Gradient	15° C per hour (max)	20° C per hour (max)
Relative Humidity (non-condensing)	20% to 80%	10% to 95%
Altitude (relative to sea level)	-60 to 3,000 meters	-60 to 10,000 meters
Shock	7G	60G
Vibration	0.2G	1.0G

- Energy Star 5.0 Compliant
- EPEAT™ Gold
- This product is RoHS²⁰ compatible

TECRA / PORTEGE / LIBRETTO – 3 YEAR STANDARD LIMITED WARRANTY²¹

Service Upgrades and Extensions

Toshiba offers many different enhanced services such as SystemGuard®, On-Site Repair, and ServiceExpress to provide additional support to your notebook PC. For a full description and complete list of programs and program terms and conditions, please visit www.pcsupport.toshiba.com.

Recommended Services

Extended Service Plan

Provides an extended service plan for up to 4 total years from the original notebook purchase date. Must be purchased within the first 6 months of notebook purchase.

Part Number	Description
WSN-PTQQ4V	4th Year Extended Service Plan

SystemGuard Accidental Damage Service w/ ServiceExpress²²

Provides advanced protection from damage caused from handling. Select your express repair service with either Depot Express or Carry-In Express and go to the front of the line. Extended Service Plan included with 4 Year plan. Must be purchased within the first 30 days of notebook purchase.

Part Number	Description
WSN-PQGP3V	1st/2nd/3rd Year
WSN-PTGP4V	1st/2nd/3rd/4th Year + Extended Service Plan

SystemGuard Accidental Damage Service + On-Site Repair²³

Combines SystemGuard and On-Site Repair coverage. Extended Service Plan included with 4 Year plan. Must be purchased within the first 30 days of notebook purchase.

Part Number	Description
WSN-PQGN3V	1st/2nd/3rd Year
WSN-PTGN4V	1st/2nd/3rd/4th Year + Extended Service Plan

ServiceExpress

Select your express repair service with either Depot Express or Carry-In Express. Depot Express: Your notebook will be repaired and returned via overnight shipment (excluding weekends and holidays). Carry-In Express: Take your notebook into a Premier ASP and go to the front of the line for expedited repair service. Extended Service Plan included with 4 Year plan. Must be purchased within the first 30 days of notebook purchase.

Part Number	Description
WSN-PQQP3V	1st/2nd/3rd Year
WSN-PTQP4V	1st/2nd/3rd/4th Year + Extended Service Plan

On-Site Repair Service

On-site service will be provided at the customer's home or business location (excluding weekends and holidays) to perform the necessary hardware repairs. Extended Service Plan included with 4 Year plan. Must be purchased within the first 6 months of notebook purchase.

Part Number	Description
WSN-PQQN3V	1st/2nd/3rd Year
WSN-PTQN4V	1st/2nd/3rd/4th Year + Extended Service Plan

Accessories

For additional and most updated accessories, please visit

www.accessories.toshiba.com

Power

Part Number	Description
PA3282U-2ACA	Toshiba 60W Global AC Adapter
PA3612U-1BRS	Toshiba Primary Li Ion Battery Pack (6 Cell)
PA3091U-2CHG	Toshiba Battery Charger w/Integrated AC Adapter

Expansion

Part Number	Description
PA3603U-1PRP	Toshiba Slim Port Replicator II
PA3681U-1PRP	Toshiba Slim Port Replicator III
PA3438U-2CD2	Toshiba UltraSlim External CD-RW/DVD-ROM Drive (USB 2.0)
PA3454U-2CD2	Toshiba UltraSlim External DVD SuperMulti Drive (USB 2.0)
PA3579U-1ETC	Toshiba Universal Notebook/Projector Stand

Security & Protection

Part Number	Description
PA410U	Targus DEFCON CL Notebook Cable Lock

Storage

Part Number	Description
PA3556U-1M2G	Toshiba 2GB USB Hi-Speed Flash Drive
PA3556U-1M4G	Toshiba 4GB USB Hi-Speed Flash Drive
PA3556U-1M8G	Toshiba 8GB USB Hi-Speed Flash Drive

Article I. Subject to Change

While Toshiba has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice. For the most up-to-date product information about your computer, or to stay current with the various computer software or hardware options, visit Toshiba's Web site at <http://www.pcsupport.toshiba.com>

Article II. Return Policy

Notwithstanding anything to the contrary in any third party License Agreement or product documentation supplied with your PC, Toshiba America Information Systems, Inc. ("TAIS") does not accept the return of component parts, or bundled software, that have been removed from the PC system. Pro-rata refunds on individual PC components or bundled software, including the operating system, will not be granted. If you wish to return a complete PC system, contact the TAIS dealer where you purchased the product, and comply with the dealer's standard return policies and procedures.

Toshiba America Information Systems, Incorporated ("TAIS")

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ToshibaDirect website: <http://www.toshibadirect.com>

TAIS website for resellers: <http://sell.toshiba.com>

TAIS PC Support website: <http://pcsupport.toshiba.com>

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^{c1} **64-bit computing:**

64-bit computing requires that the following hardware and software requirements are met:

- 64-bit Operating System
- 64-bit CPU, Chipset and BIOS (Basic Input/Output System)
- 64-bit Device drivers
- 64-bit applications

Certain device drivers and/or applications may not be compatible with a 64-bit CPU and therefore may not function properly. A 32-bit version of the operating system is preinstalled on your computer unless explicitly stated that the operating system is 64-bit. See "Detailed Specs" for more information.

¹ **Product Series Legal Footnote.** The product specifications and configuration information are designed for a product Series. Your particular model may not have all the features and specifications listed or illustrated. For more detailed information about the features and specifications on your particular model, please visit Toshiba's Web site at pcsupport.toshiba.com.

Product Offering Legal Footnote. Toshiba America Information Systems, Inc. reserves the right to modify or withdraw this offer at anytime without notice.

² **Operating System.**

Also see **64-Bit Computing** Legal Footnote, if applicable.

Certain Microsoft® software product(s) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software product(s) or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

Offers. Offer terms, duration and product availability all subject to change without notice

³ **Processor (Central Processing Unit).**

CPU performance in your computer product may vary from specifications under the following conditions:

1. use of certain external peripheral products
2. use of battery power instead of AC power
3. use of certain multimedia, computer generated graphics or video applications
4. use of standard telephone lines or low speed network connections
5. use of complex modeling software, such as high end computer aided design applications
6. use of several applications or functionalities simultaneously
7. use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
8. use of computer at temperatures outside the range of 5°C to 30°C (41°F to 86° F) or >25°C (77°F) at high altitude (all temperature references are approximate and may vary depending on the specific computer model – please visit the Toshiba website at www.pcsupport.toshiba.com for details).

CPU performance may also vary from specifications due to design configuration.

Under some conditions, your computer product may automatically shut-down. This is a normal protective feature designed to reduce the risk of lost data or damage to the product when used outside recommended conditions. To avoid risk of lost data, always make back-up copies of data by periodically storing it on an external storage medium. Use your computer product only under recommended conditions. Read additional restrictions under "Environmental Conditions" in your product "Detailed Specs." Contact Toshiba Technical Service and Support for more information.

⁴ **Wireless-N.** The wireless adapter is based on a draft release version of the IEEE 802.11n specification, and may not be compatible with, or support all features (e.g., security) of, certain Wi-Fi® equipment.

⁵ **Memory (Main System).** Part of the main system memory may be used by the graphics system for graphics performance and therefore reduce the amount of main system memory available for other computing activities. The amount of main system memory allocated to support graphics may vary depending on the graphics system, applications utilized, system memory size and other factors. For PC's 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.

⁶ **Storage Drive Capacity**
Hard Disk Drive (HDD) Capacity.

Computer (Internal) HDD Capacity. One Gigabyte (GB) means $10^9 = 1,000,000,000$ bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of $1 \text{ GB} = 2^{30} = 1,073,741,824$ bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the computer includes one or more pre-installed operating systems, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

⁷ **Optical Drive.** Due to manufacturing and quality variations in third party optical media (e.g., CD or DVD) or optical media players/recorders, in certain cases, your Toshiba optical drive may not record on certain optical media that bear the applicable logo, or playback optical media recorded by other PCs or optical media recorders. Additionally, certain optical media recorded on your optical drive may not playback or operate properly on other PCs or optical media players. These problems are not due to any defect in your Toshiba PC or optical drive. Please refer to your PC's product specification for listing of specific format compatibilities.

Recording or viewing of certain optical media may be limited or prevented in accordance with applicable copy protection standards.

⁸ **Display.** Small bright dots may appear on your screen 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 bright dots that may appear on your display are an intrinsic characteristic of the TFT manufacturing technology. Over a period of time, and depending on the usage of the computer, the brightness of the screen will deteriorate. This is also an intrinsic characteristic of the screen technology. When the computer is operated on battery power, the screen will dim and you may not be able to increase the brightness of the screen while on battery power.

⁹ **Graphics (Graphics Processing Unit).**

GPU performance may vary depending on product model, design configuration, applications, power management settings and features utilized. GPU performance is only optimized when operating in AC power mode and may decrease considerably when operating in battery power mode.

¹⁰ **Wireless-N.** The wireless adapter is based on a draft release version of the IEEE 802.11n specification, and may not be compatible with, or support all features (e.g., security) of, certain Wi-Fi® equipment.

¹¹ **USB Sleep & Charge.** The "USB Sleep & Charge function" may not work with certain external devices even if they are compliant with the USB specification. In those cases, turn the power of the computer ON to charge the device.

¹² **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

¹³ **Battery Life.** Battery life may vary considerably from specifications depending on product model, configuration, applications, power management settings and features utilized, as well as the natural performance variations produced by the design of individual components. Published battery life numbers are achieved on select models and configurations tested by Toshiba at the time of publication. See "Detailed Specs" for specific battery measurement test. 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 the accessories information that shipped with your computer or visit the Toshiba web site at www.accessories.toshiba.com.

Battery life will be less than when using similar applications in the Windows Operating System

¹⁴ **Battery Life - MobileMark™.** Measured by MobileMark. MobileMark is a trademark of the Business Applications Performance Corporation.

¹⁵ **EasyGuard.** Toshiba EasyGuard™ technology comprises a number of features some of which may or may not be available on a particular Toshiba notebook depending on the model selected. See www.easyguard.toshiba.com for detailed information.

¹⁶ **Shock Protection.** Toshiba's shock absorption technology provides higher impact protection for your system as compared to Toshiba systems without similar shock protection features based on Toshiba's drop tests. Toshiba's standard limited warranty terms and limitations apply. Visit www.warranty.toshiba.com for details.

¹⁷ **Spill-Resistant Keyboard.** Under Toshiba testing conditions, the spill-resistant keyboard delayed the time for a water spill to reach the PC's main board to allow more time to properly close down the machine. Toshiba's standard limited warranty terms and limitations apply. Visit www.warranty.toshiba.com for details.

¹⁸ **Software.** Some software may differ from its retail version (if available), and may not include user manuals or all program functionality.

Certain Microsoft® software products (including Microsoft Office Small Business Accounting if applicable) included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software products or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).

Internet access is required to enable certain functionality of certain Microsoft products which may be included with this computer.

The Microsoft Office 2007 60-Day Trial software (if applicable) is intended for evaluation purposes only. You must activate the software before you can use it. Product activation procedures will be detailed during initial launch of the software; activation requires Internet access. This software has an expiration date of 60 days from date of first use, at which time the software will operate under reduced-functionality mode, limiting end-user options and operations. The Microsoft Office 2007 60-Day Trial software is distributed without charge to the End User Customer but if the End User wants to continue to use such product after the trial period, then the End User Customer will have to pay a fee for the perpetual version of such Office Product.

¹⁹ **Temperature (Environmental) Conditions.** All temperature references are approximate and the performance of your computer may vary from specifications even when operating within the recommended temperature range.

²⁰ **RoHS.** This notebook is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its notebook component suppliers to meet RoHS requirements and verifies its suppliers' commitment to meeting RoHS requirements by conducting component sampling inspections during the product design approval process.

²¹ **Warranty:** The terms and conditions of Toshiba's standard limited warranty are available at www.warranty.toshiba.com.

²² **Service Plans:** The terms and conditions of service upgrade and extension plans offered by Toshiba are available at www.pcsupport.toshiba.com.

²³ **Service Plans:** The terms and conditions of service upgrade and extension plans offered by Toshiba are available at www.pcsupport.toshiba.com.