

TECRA A10 Detailed Product Specification¹

Model Name: A10-SP5920R A10-SP5920A A10-SP5920C	Part Number: PTSB3U-0S9TM1 PTSB3U-0S9AR2 PTSB3U-0S9CL2	UPC: 883974333981 883974333967 883974333974
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Operating System ^{c1 2}

- Genuine Windows® XP Professional (32-bit version), SP3 Spanish
 - Recovery media for Genuine Windows® 7 Professional Spanish

Processor and Chipset ³

Intel® Centrino® 2 with vPro™ technology featuring:

- Intel® Core™ 2 Duo Processor P8700
 - 2.53GHz, 3MB L2, 1066MHz FSB
- Mobile Intel® PM45 Express Chipset
- Integrated Wi-Fi® compliant wireless LAN
 - Intel® WiFi Link 5100AGN (802.11 a/g/n)⁴
- Wired LAN
 - Intel® 82567LM Gigabit Network Connection

Memory ⁵

- Configured with 2GB PC2-6400 DDR2 SDRAM. (Max capacity 8GB)

Storage Drive ⁶

- 320GB (5400 RPM) Serial ATA hard disk drive

Fixed Optical Disk Drive ⁷

- DVD SuperMulti (+/-R double layer) drive supporting 11 formats
 - Maximum speed and compatibility: CD-ROM (24x), CD-R (24x), CD-RW (24x), DVD-ROM (8x), DVD-R (Single Layer, (8x)), DVD-R (Double Layer, (6x)), DVD-RW (8x), DVD+R (Single Layer, (8x)), DVD+R (Double Layer, (6x)), DVD+RW (8x), DVD-RAM (5x)

Display ⁸

- 15.4" diagonal widescreen TFT LCD display at 1280 x 800 native resolution (WXGA)

Graphics ⁹

- NVIDIA® Quadro NVS 150M with 256MB of dedicated graphics memory

Sound

- Built-in stereo speakers
- Sound volume control dial
- Built-in microphone

Input Devices

- 86 key Spanish keyboard
- Toshiba Accupoint® II and TouchPad™ dual pointing device
- TouchPad™ Enable/Disable
- Control Buttons:
 - Toshiba Assist button to launch Toshiba Assist control panel
 - Windows Mobility Center button

Communications

- Webcam and microphone built into LCD bezel
- Modem¹⁰
- Intel® 82567V Gigabit Network Connection
- Integrated Wi-Fi® compliant wireless:
 - Intel® WiFi Link 5100AGN (802.11 a/g/n)¹¹
- Bluetooth® version 2.1 plus Enhanced Data Rate (EDR)

Expandability

- One PCMCIA – Type II Card Slot
- Bridge Media Adapter
 - Secure Digital, Memory Stick™, Memory Stick PRO™, Multi Media Card, xD Picture Card [shared slots]

Ports

- Video
 - RGB (monitor) output port

- Audio
 - Microphone input port
 - Headphone output port
- Data
 - i.LINK™ IEEE-1394
 - Modem-RJ11
 - Ethernet-RJ45
 - USB v2.0 – 4 ports
 - 3 x USB v2.0
 - 1 x eSATA/USB combo port with USB Sleep and Charge¹²
 - Serial port
 - Docking connector
- Security
 - Fingerprint reader
 - Reinforced Security Cable Lock Slot

Physical Description

- Dimensions (WxDxH Front/H Rear): 361.3mm x 265mm x 37.1mm/38.1mm with feet
- Weight: Starting at 2.8 kg¹³
- LCD Cover Color: Titanium Silver

Power

- 75W (15V x 5A) Auto sensing 100-240V/50-60Hz AC Adapter.
- Dimensions (WxDxH): 127mm x 51mm x 30.5mm
- Weight: starting at 355g

Battery ¹⁴

- 5100mAh Lithium Ion battery pack (6-cell)

Software ^{c1 15}

- Toshiba Software and Utilities
 - TOSHIBA Value Added Package
 - Electronic User's Guide
 - TOSHIBA ConfigFree®
 - TOSHIBA Speech System
 - TOSHIBA Face Recognition
- Third-party Software
 - Sun® Java™ Runtime Environment
 - Adobe® Acrobat® Reader
 - InterVideo® WinDVD®
 - Google™ Desktop
 - Google™ Toolbar
- Trial Software
 - Microsoft Office Ready with Microsoft Office Professional 2007 60-day Trial Edition
 - Norton Internet Suite 2008 (Spanish)

Environmental Specifications

	Operating	Non-operating
Temperature ¹⁶	5° to 35° C	-20° to 65° C
Thermal Gradient	15° C per hour (max)	20° C per hour (max)
Relative Humidity (non-condensing)	20% to 80%	10% to 90%
Altitude (relative to sea level)	-60 to 3,000 meters	-60 to 10,000 meters
Shock	10G	60G
Vibration	0.5G	1.0G

- This product is RoHS¹⁷ compatible
- Energy Star Qualified
- EPEAT™ Gold

1 YEAR STANDARD LIMITED WARRANTY¹⁸

- Includes International Limited Warranty for obtaining service when traveling outside the United States.

Service Upgrades and Extensions

Toshiba offers many different enhanced services such as SystemGuard® and Extended Service Plan to provide additional support to your notebook PC. For a full description and complete list of programs, please visit www.pcsupport.toshiba.com.

Accessories

For additional and most updated accessories, please visit

www.accessories.toshiba.com

Memory Upgrade

Part Number	Description
PA3669U-1M2G	Toshiba 2GB DDR2-800 Memory Module
PA3670U-1M4G	Toshiba 4GB DDR2-800 Memory Module

Power

Part Number	Description
PA3283U-5ACA	Toshiba 75W Global AC Adapter
PA3588U-1BRS	Toshiba Primary Li Ion Battery Pack (6 cell)
PA3509U-1BRM	Toshiba Primary Extended Capacity Li Ion Battery Pack (9 cell)
PA3357U-3BRL	Toshiba Primary High Capacity Li Ion Battery Pack (12 cell)
PA3091U-2CHG	Toshiba Battery Charger w/Integrated AC Adapter

Expansion

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>

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>

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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).**

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

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**

Hard Disk Drive (HDD) Capacity.

1 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 product 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 with 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 **Modem Speed.** Due to FCC limitations, speeds of 53 kbps are the maximum permissible transmission rates during download. Actual data transmission speeds will vary depending on line conditions.

¹¹ **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.

¹² **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.

¹³ **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

¹⁴ **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

¹⁵ **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 (including Microsoft Office Small Business Accounting 2006) 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.

¹⁶ **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.

¹⁷ **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.

¹⁸ **Warranty.** The terms and conditions of Toshiba's standard limited warranty are available at www.warranty.toshiba.com.