

## libretto W105 Detailed Product Specification<sup>1</sup>

<b>Model Name:</b> W105-L251	<b>Part Number:</b> PLW10U-00201V	<b>UPC:</b> 883974504886
------------------------------	-----------------------------------	--------------------------

### Operating System <sup>C1</sup> 2

- [Genuine](#) Windows<sup>®</sup> 7 Home Premium 32-bit

### Processor<sup>3</sup> and Graphics<sup>4</sup>

- Intel<sup>®</sup> Pentium<sup>®</sup> U5400 Processor
  - 1.2 GHz, 3MB Cache
- Mobile Intel<sup>®</sup> QS57 Express Chipset
- Mobile Intel<sup>®</sup> HD Graphics with 64MB-728MB dynamically allocated shared graphic memory

### Memory<sup>5</sup>

- Configured with 2GB DDR3 (works at 800MHz, max 2GB)

### Storage Drives<sup>6</sup>

- 62GB Serial ATA solid state drive

### Display<sup>7</sup>

- Dual (2) 7.0" diagonal widescreen Multi-touch TruBrite<sup>®</sup> TFT LCD displays at 1024 x 600 native resolution (WSVGA)
  - LED backlit
  - Screen rotation with 3D Accelerometer

### Sound

- Built-in speaker (mono)

### Input Devices

- libretto virtual keyboards
  - Six virtual keyboard modes
  - Haptic feedback
- libretto virtual Touch Pad

### Communications

- Webcam and microphone
- Wi-Fi<sup>®</sup> Wireless networking (802.11b/g/n)<sup>8</sup>
- Bluetooth<sup>®</sup> version 2.1 plus Enhanced Data Rate (EDR)

### Expandability

- Memory Card Reader
  - micro Secure Digital, micro Secure Digital High Capacity [shared slot]

### Ports

- Audio
  - Headphone output port
- Data
  - 1 USB v2.0 port

### Physical Description

- Brushed Metal Finish
- Dimensions (W x D x H): 7.95" x 4.84" x 1.2"
- Weight: Starting at 1.8 lbs., depending upon configuration<sup>9</sup>

### Battery<sup>10</sup>

- 8 cell/36Wh Lithium Ion battery pack

### Power Supply

- 45W (19V x 2.37A) Auto-sensing, 100-240V/50-60Hz AC Adapter
- Dimensions (W x D x H): 3.6" x 1.8" x 1.0"
- Weight: starting at .45 lbs.

### Software <sup>C1</sup> 11

- Toshiba Premium Applications and Utilities for libretto
  - TOSHIBA Bulletin Board<sup>™</sup>
  - TOSHIBA ReelTime<sup>™</sup>
  - TOSHIBA File Browser
  - TOSHIBA Window Switcher
  - TOSHIBA Cards
  - TOSHIBA Easy Menu Utility
- Toshiba Software and Utilities
  - Electronic User's Guide
  - Bluetooth Stack for Windows by Toshiba

- TOSHIBA Media Controller<sup>12</sup>
- TOSHIBA PC Health Monitor
- System Recovery
- Third-party Software
  - Internet Explorer 8
  - Microsoft<sup>®</sup> Works 9
  - Bing<sup>®</sup> Bar
  - Microsoft<sup>®</sup> Windows Media Player
  - Microsoft<sup>®</sup> Windows<sup>®</sup> Live Essentials including Photo Gallery, Messenger, Mail, Writer, and Movie Maker.
  - Adobe<sup>®</sup> Acrobat<sup>®</sup> Reader
  - WildTangent<sup>®</sup> Games Console
- Trial Software
  - Norton Internet Security<sup>™</sup> 2010, 30-day trial
  - Microsoft<sup>®</sup> Office 2010 Starter, 60-day trial
- Special Offers
  - Toshiba Online Backup (30-day trial subscription available)
  - Skype<sup>®</sup>
  - Intuit<sup>®</sup> Quickbooks<sup>®</sup> Simple Start Online

### Environmental Specifications

- This product is RoHS<sup>13</sup> compatible
- Energy Star Qualified
- EPEAT<sup>™</sup> Gold Compliant

	Operating	Non-operating
Temperature <sup>14</sup>	5° to 35° C	-20° to 65° C
Relative Humidity (non-condensing)	20% to 80%	10% to 90%
Thermal Gradient	15° C per hour (max)	20° C per hour (max)
Altitude (relative to sea level)	-60 to 3,000 meters	-60 to 10,000 meters
Shock	10G	60G
Vibration	0.5G	1.0G

### 1 YEAR STANDARD LIMITED WARRANTY<sup>15</sup>

- 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<sup>®</sup>, 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](http://www.pcsupport.toshiba.com).

### Power

Part Number	Description
PA3822U-1ACA	Toshiba 45W Global AC Adapter
PA3842U-1BRS	Toshiba Primary 8-Cell High Capacity Li Ion Battery Pack

### Expansion

Part Number	Description
PA3761U-1DV2	Toshiba Portable External DVD SuperMulti Drive

### Storage

Part Number	Description
PA3556U-1M2G	Toshiba 2GB USB Hi-Speed Flash Drive, ReadyBoost
PA3556U-1M4G	Toshiba 4GB USB Hi-Speed Flash Drive, ReadyBoost
PA3556U-1M8G	Toshiba 8GB USB Hi-Speed Flash Drive, ReadyBoost
E05A050CAU2XK	Toshiba 500GB USB 2.0 Port Hard Drive, Raven Black
E05A075CAU2XL	Toshiba 750GB USB 2.0 Port Hard Drive, Liquid Blue
E05A100PBU2XY	Toshiba 1TB USB 2.0 Port Hard Drive, Satin Silver

## 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")  
9740 Irvine Boulevard  
Irvine CA 92618

ToshibaDirect website: <http://www.toshibadirect.com>  
TAIS website for resellers: <http://sell.toshiba.com>  
TAIS PC Support website: <http://pcsupport.toshiba.com>

Satellite, ConfigFree and SystemGuard are registered trademarks of Toshiba America Information Systems, Inc. and/or Toshiba Corporation. All other products and names mentioned are the property of their respective owners.

### <sup>C1</sup> **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. See "Detailed Specs" for more information.

<sup>1</sup> **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](http://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

<sup>2</sup> **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

<sup>3</sup> **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](http://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.

<sup>4</sup> **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.

**Total Available Graphics Memory** is the total of, as applicable, Dedicated Video Memory, System Video Memory and Shared System Memory. Shared System Memory will vary depending on system memory size and other factors.

<sup>5</sup> **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. Computers configured with a 32-bit operating system can address up to 3GB of system memory. Only computers configured with a 64-bit operating system can address 4 GB or more of system memory.

<sup>6</sup> **Storage Drive (Internal HDD Capacity).** One Gigabyte (GB) means  $10^9 = 1,000,000,000$  bytes and One Terabyte (TB) means  $10^{12} = 1,000,000,000,000$  bytes using powers of 10. The computer operating system, however, reports storage capacity using powers of 2 for the definition of 1 GB =  $2^{30} = 1,073,741,824$  bytes and 1TB =  $2^{40} = 1,099,511,627,776$  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.

<sup>7</sup> **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.

<sup>8</sup> **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.

<sup>9</sup> **Weight.** Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected.

<sup>10</sup> **Battery Life Rating.** Measured by MobileMark® 2007. MobileMark is a trademark of the Business Applications Performance Corporation. Rating based on either MobileMark Productivity 2007 modeling a user performing common mobile office activities or Reader 2007 modeling a user reading documents. See "Detailed Specifications" for test used.

Details of MobileMark 2007 testing are available at [www.bapco.com](http://www.bapco.com)

Rating is for comparison purposes only, and does not indicate the battery life that will be obtained by any individual user. Actual 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. The battery life rating is only achieved on the select models and configurations tested by Toshiba under the specific test settings at the time of publication and is not an estimate of a system's battery life under any conditions other than the specific test settings.

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.

<sup>11</sup> **Software.** Also see 64-Bit Computing Legal Footnote, if applicable.

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

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).

#### **Microsoft® Office Starter 2010.**

Includes Microsoft® Office 2010 preloaded. Purchase a Product Key to activate a full Microsoft Office 2010 suite

<sup>12</sup> **Toshiba Media Controller.** Copy protection technology, if any, associated with the content may prevent or limit sharing of content.

<sup>13</sup> **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.

<sup>14</sup> **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.

<sup>15</sup> **Warranty.** The terms and conditions of Toshiba's standard limited warranty are available at [www.warranty.toshiba.com](http://www.warranty.toshiba.com).