

TECRA Z50-C Detailed Product Specification¹

Model Name: Z50-034007	Part Number: PT573U-034007	UPC: 889661169130
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Operating System^{C1 2}

- Windows 7 Professional (available through downgrade rights from Windows 10 Pro)

Processor³ and Graphics⁴

- Intel® Core™ i7-6600U Processor
 - (4M Cache, up to 3.4 GHz), Base 2.6 GHz
- Intel® vPro Technology with AMT 11.0
- Intel® HD Graphics 520

Memory⁵

- 16GB DDR3L 1600MHz (max 16GB),
 - Not user replaceable, 2 of 2 slots occupied

Storage⁶

- 512GB M.2 solid state drive (SSD)

Optical Drive⁷

- DVD SuperMulti drive supporting 11 formats
 - CD-ROM, CD-R, CD-RW, DVD-ROM, DVD-R, DVD-R DL, DVD-RW, DVD+R, DVD+R DL, DVD+RW, DVD-RAM

Display⁸

- 15.6" diagonal widescreen TFT display at 1920 x 1080 native resolution (FHD)
 - Native support for 1080p content
 - 16:9 aspect ratio
 - LED backlit
- Intel® Wireless Display Ready⁹

Sound

- Built-in stereo speakers
- DTS Studio Sound™

Input Devices

- Premium Spill-resistant Raised Tile Keyboard (black)
 - LED Backlit
- Accupoint pointing device
- Click pad pointing device with multi-touch control

Communications

- Full HD webcam with TruTalk™ dual microphones
- Intel® Ethernet Connection I219-LM (10/100/1000)
- Intel® Dual-Band Wireless-AC 8260
- Bluetooth¹⁰

Expandability

- Memory Card Reader
 - Secure Digital, Secure Digital High Capacity, Mini SD Card, Micro SD Card, SDXC, Multi Media Card [shared slot may require adapter for use]

Ports

- Video
 - RGB
 - HDMI®
- Audio
 - Microphone input/ Headphone output (shared)
- Data
 - 4 USB 3.0¹¹ ports-1 with USB Sleep and Charge¹²
 - RJ-45 LAN port
 - Docking connector
- Security
 - Fingerprint Reader
 - Slot for security lock

Physical Description

- Cosmo Silver
- Aluminum LCD Cover
- Dimensions (W x D x H):
 - 14.9" x 10.2" x 0.92"

- 379mm x 258mm x 23.2mm

- Weight: Starting at 4.6 lbs (2.08 kg) depending upon configuration¹³

Power¹⁴

- 65W (19V) 100-240V/50-60Hz AC Adapter.
- 4 cell/45 Wh Lithium Ion battery pack

Toshiba EasyGuard^{®15}

- Protect & Fix
 - HALT Tested Design
 - LCD Cover Face and Point pressure Resistant Design
 - Hinge Design Enhancement
 - TOSHIBA PC Health Monitor
 - TOSHIBA Shock Protection System
 - TOSHIBA Hard Drive Impact Sensor (3D sensor)
- Secure
 - Execute Disable Bit
 - Multiple-Level Password Utilities
 - Reinforced Security Cable Lock Slot
 - Trusted Platform Module v2.0
- Connect
 - Diversity Antenna
 - Voice-over-IP Ready Design
 - Wireless Communication On/Off
- Optimize
 - FN Shortcut Keys
 - TOSHIBA eco Utility™
 - TOSHIBA Power Management Extension

Software^{C1 16} (may vary depending on OS)

- Toshiba Software and Utilities
 - TOSHIBA eco Utility™
 - TOSHIBA Display Utility
 - TOSHIBA Fingerprint Utility
 - TOSHIBA Service Station
- Third-party Software
 - DTS Studio Sound™
 - Intel® Wireless Display
- Special Offers and Trial Software
 - 1 month trial for new Microsoft® Office 365 customers¹⁷

3 YEAR STANDARD LIMITED WARRANTY¹⁸

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

Environmental Specifications¹⁹

- This product is RoHS²⁰ compatible
- ENERGY STAR® Qualified
- EPEAT Gold Rated

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.support.toshiba.com.

Accessories

For additional and most updated accessories, please visit <http://us.toshiba.com/accessories-home>

Power

Part Number	Description
PA5178U-1ACA	Toshiba 65W Global AC Adapter
PA5212U-1BRS	Toshiba Primary Li-Ion Battery Pack

Expansion

Part Number	Description
PA5116U-2PRP	Toshiba Hi-Speed Port Replicator III, 120W

PA5217U-1PRP	dynadock® 4K Universal USB Docking Station
PA3927U-1PRP	dynadock® U3.0 Universal USB Docking Station
PA5232U-1ETB	Toshiba USB 3.0 4-port Hub HU600
PA3627U-1ETC	Toshiba USB 2.0 Mini 4-Port Hub

Input Devices

Part Number	Description
PA3871U-1ETB	Toshiba Wireless Keyboard & Mouse Combo
PA5236U-1ETB	Toshiba USB Keyboard with 10-key
PA3982U-1E2B	Toshiba USB mouse U25
PA5154U-1ETB	Toshiba Optical Mouse U30
PA5155U-1ETB	Toshiba Wireless Optical Mouse W30
PA5211U-1ETB	Toshiba Bluetooth Optical Mouse B35

Carrying Case

Part Number	Description
PA1456U-1SN6	Toshiba 16" Neoprene Case
PA1568U-1SS6	Toshiba 16" Neoprene Sleeve
PA1563U-1CS6	Toshiba 16" Envoy 2 Carrying Case

PA1571U-1BP6	Toshiba 16" Envoy 2 Back Pack
PA1573U-1MR6	Toshiba 16" Messenger

Storage

Part Number	Description
HDTC805XK3A1	Toshiba Canvio Connect II Hard Drive - 500GB Black
HDTC810XK3A1	Toshiba Canvio Connect II Hard Drive - 1TB Black
HDTC820XK3C1	Toshiba Canvio Connect II Hard Drive - 2TB Black
HDTC830XK3A1	Toshiba Canvio Connect II Hard Drive - 3TB Black
HDTQ112XCWF1	Toshiba WIRELESS SSD 128GB
HDWW100XKWU1	Toshiba Canvio Cast Wireless Adapter
PFU016U-1BLK	Toshiba TransMemory ID USB 3.0 Flash Drive - 16GB Black
PFU032U-1BLK	Toshiba TransMemory ID USB 3.0 Flash Drive - 32GB Black
PFU064U-1BLK	Toshiba TransMemory ID USB 3.0 Flash Drive - 64GB Black
PFW016U-1CCW	Toshiba Flash Air III Wireless SD Card - 16GB
PFW032U-1CCW	Toshiba Flash Air III Wireless SD Card - 32GB

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.support.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.

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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. 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 **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.

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. 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.

⁶ **Storage Drive**

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 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.

Solid State Drive (SSD) Capacity.

Computer (Internal) SSD 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 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 **Intel® Wireless Display.** Copy protection technology, if any, associated with the content may prevent or limit viewing of content.

¹⁰ **Wireless.** May require purchase of additional software, external hardware, or services. Transmission speeds may vary. Certain optional features within the wireless-n specifications (if available on your system) may not be supported.

¹¹ **USB 3.0.** 5Gbps is the maximum theoretical interface transfer rate per the specifications of the Universal Serial Bus 3.0. Actual transfer rate will vary depending on your system configuration and other factors.

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 Rating.**

Measured by MobileMark® 2014 for models preinstalled with Microsoft® Windows 10.

- Benchmark rules for Mobile Mark™ 2014: Wireless connectivity = On, Screen brightness = 150 nits or greater, except when screen dimming is allowed, Predefined updated workloads. Predefined updated workloads.

Details of MobileMark® 2014 testing protocols are available at www.bapco.com MobileMark is a U.S. Registered trademark of the Business Applications Performance Corporation.

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.

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 **Software.** 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.

¹⁷ **Microsoft® Office trial** Buy Microsoft® Office 1 month trial for new Microsoft® Office 365 customers.

The version of Microsoft® Office included in this computer is only available in and can only be activated within the region in which you purchased it. Certain Microsoft® software products included with this computer may use technological measures for copy protection. In such case, you will not be able to use the Product if you do not activate it with Microsoft. Activation may be completed by Internet or telephone (toll charges may apply). 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 reconfiguration of the computer.

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

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.

	Operating	Non-operating
Temperature	5° to 35° C	-20° to 65° C
Thermal Gradient	15° C per hour (max)	20° C per hour
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, 0.25G w/ODD	1.0G

²⁰ **RoHS.** This computer is compatible with European Union Directive 2011/65/EU, 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 computer 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.