



# Tecra A6-EZ6312

Impressive **by design.**

## Smart computing goes mobile...for less.

Enhance your mobile strategy and your budget strategy...with one smart move.

### Value.

The Tecra® A6 combines advanced mobility with Toshiba's EasyGuard™ Technology at a very affordable price.

### Smartly Mobile.

Toshiba's Tecra® A6 combines solid refinements and essential mobility in a budget-minded notebook. Intel® Centrino® Mobile Technology dramatically accelerates performance. And Toshiba's exclusive EasyGuard™ Technology provides state-of-the-art HDD protection<sup>15</sup> if the notebook is threatened by falling or excessive motion. It also includes a spill-resistant keyboard<sup>16</sup>, designed to give you enough time to save your data and shut down the system in the event of an accidental liquid spill, plus one-touch fingerprint security management of log-on, files and folders featuring an integrated biometric fingerprint reader. The 14.1" diagonal widescreen TruBrite™ display delivers vivid presentations. And the CD-RW/DVD-ROM drive add media flexibility for presentations, backups and sharing data.

Powered by Intel® Centrino® Mobile Technology, which boosts performance and productivity of everyday or multi-threaded applications and multi-tasking scenarios.

Toshiba's revolutionary EasyGuard™ data protection system automatically places the HDD in a safe mode if the notebook is ever threatened by falling or excessive motion. Adding even more durability, the HDD is housed in vibration-absorbing and vibration-dampening materials<sup>15</sup>.

Offering both security and convenience, the integrated biometric fingerprint reader helps automate password management for fast, simple log-ons and encrypts files and folders with the swipe of a finger for a truly unique level of security.

The spill-resistant keyboard helps protect internal components against accidental liquid spills, giving you time to save your work and shut down your system<sup>16</sup>.

Toshiba's Advanced Port Replicator III Plus enables cable-free docking to your desk-bound peripherals-and hassle-free undocking with the push of a button.

Take the mystery out of mobile connectivity. Toshiba's powerful ConfigFree software automatically sets up a LAN, WLAN and WAN network connection, troubleshoots connectivity problems and captures a complete set of location settings for easy, single-button future use.

# Tecra A6-EZ6312<sup>1</sup> Detailed Product Specifications

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

- Microsoft® Windows® XP Professional

## Processor and Chipset<sup>3</sup>

### Intel® Centrino® Mobile Technology featuring:

- Intel® Core™ Solo Processor T2400E
  - 1.83GHz, 2MB L2, 667MHz FSB
- Mobile Intel® 945GM Express Chipset
- Intel® PRO/Wireless 3945ABG (802.11a/b/g)

## Memory<sup>4</sup>

- Configured with 1024MB PC4200 DDR2 SDRAM (both memory slots occupied)
- 1024MB(min)/4096MB (max), 512MB in service-accessible memory slot plus 512MB in the user-accessible memory slot. Slots will accept 256MB, 512MB, 1024MB, 2048MB PC4200 DDR2 533MHz SDRAM or PC5300 DDR2 667MHz SDRAM memory modules.

## Hard Disk Drive<sup>5</sup>

- 80GB (5400 RPM) Serial-ATA (SATA) hard disk drive; 9.5mm height

## Fixed Optical Disk Drive<sup>6</sup>

- DVD SuperMulti (+/-R double layer) drive supporting 11 formats
  - Maximum speed and compatibility: CD-ROM (24x:read), CD-R (24x:write), CD-RW (10x:write), DVD-ROM (8x:read), DVD-R (Single Layer, 8x:write), DVD-R (Double Layer, 2x: write), DVD-RW (4x:write), DVD+R (Single Layer, 2x:write), DVD+R (Double Layer, 2.4x:write), DVD+RW (4x:write), DVD-RAM (5x:write)

## Display<sup>7</sup>

- 14.1" diagonal widescreen TruBrite™ TFT active-matrix LCD display at 1280x768 native resolution (WXGA)

## Graphics<sup>8</sup>

- Intel® Graphics Media Accelerator 950 with 8MB-128MB dynamically allocated shared graphics memory

## Sound

- Built-in stereo speakers
- Sound Volume Control Dial
- Built-in microphone

## Input Devices

- Keyboard
  - 85 key US keyboard
  - Hot Key Functions (Fn)
  - Windows Key Function
  - Application Key Function
- TouchPad™ pointing device
- TouchPad™ Enable/Disable
- Control Buttons:
  - Toshiba Assist button to launch Toshiba Assist control panel
  - Presentation button to quickly connect to projectors

## Communications

- Toshiba V.92 software modem<sup>9</sup>
- Intel® PRO/1000 VE Network Connection - 10/100/1000 Base-TX Ethernet
- Integrated Intel® PRO/Wireless Network Connection 3945ABG (802.11a/b/g) Wireless-LAN<sup>10</sup>

## Expandability

- 2 main memory slots.
- One PCMCIA – Type II/Type I Card Slot
- 5-in-1 Bridge Media Adapter
  - Secure Digital, miniSD™ (with adapter), Memory Stick™, Memory Stick PRO™, xD

- Picture Card (shared slots)
- Secure Digital slot supports SDIO

## Ports

- Video
  - RGB (monitor) output port
  - S-Video output port
- Audio
  - Microphone input port
  - Headphone output port
- Data
  - i.LINK™ IEEE-1394
  - USB v2.0 – 4 ports
  - RJ-45 LAN port
  - RJ-11 modem port
  - Docking connector

## Physical Description

- Dimensions (WxDxH Front): 13.5" (343.0mm) x 9.53" (242.0mm) x 1.50" (38.0mm)
- Weight: Starting at 5.20 lbs (2.36 kg) depending upon configuration<sup>11</sup>
- Chassis Description
  - Case material: Magnesium + Polycarbonate ABS
  - LCD Cover Color: Titanium Silver
- Physical Security
  - Slot for cable lock;
  - Items protected by a screw: HDD, Memory, Ultra SlimBay Device
  - Fingerprint reader
- Software Security
  - Passwords: User power-on password, supervisor password
  - Hotkey locks: Screen Blank

## Power Supply

- 75W (15V x 5A) Auto sensing external AC Adapter, 100-240V / 50-60Hz frequency (Universal) input.
- Dimensions (WxDxH): 8.15" (128.0mm) x 1.22" (31.0mm) x 2.01" (51.0mm)
- Weight: starting at 0.82 lbs (370 g)

## Battery<sup>12</sup>

- 6-cell (4000mAh) rechargeable, removable Lithium Ion (Li-Ion) battery pack
- Dimensions (WxDxH): 8.15" (207.0mm) x 2.13" (54.0mm) x 0.91" (23.0mm)
- Weight: starting at 0.75 lbs (338 g)
- Battery Life (measured by MobileMark™)<sup>13</sup>
  - Included 6-cell battery: 5 hours, 41 minutes
  - Optional 9-cell battery: 6 hours, 16 minutes
- Recharge Time
  - Main Battery Off/On – approximately 4.0 hrs/approximately 4.0 to 12.0 hrs

## Toshiba Easyguard™<sup>14</sup>

- Protect & Fix
  - Shock Absorbing Design<sup>15</sup>: HDD Shock Absorber
  - Hard Disk Drive Protection: 3D Accelerometer, HDD Shock Absorber
  - Spill-Resistant Keyboard<sup>16</sup>
  - TOSHIBA PC Diagnostic Tool
  - Key Component Access
- Secure
  - Multiple-Level Password Utilities
  - Fingerprint Reader (includes software for password and identity management)
  - Trusted Platform Module (TPM v1.2)
  - Reinforced Security Cable Lock Slot
  - Execute Disable Bit
- Connect

- Diversity Antenna
- TOSHIBA ConfigFree®
- Optimize
  - Presentation Button
  - TOSHIBA Zooming Utility
  - One-touch Resolution Change
  - TOSHIBA Power Saver Utility
  - Wireless On/Off Switch
  - TOSHIBA Fn-esse® Shortcut Utility
  - TOSHIBA Mouse Utility
  - FN Shortcut Keys

## Software<sup>17</sup>

- Toshiba Software and Utilities
  - Software and Utilities
  - TOSHIBA ConfigFree®
  - TOSHIBA Custom Utilities
  - Electronic User's Guide
  - Toshiba Bluetooth driver software
- Third-party Software
  - Microsoft Office® OneNote® 2003
  - Microsoft Works® Version 8.5
  - Sun® Java™ 2 Runtime Environment
  - Adobe® Acrobat® Reader
  - InterVideo® WinDVD® 5
  - Sonic Solutions® Drive Letter Access™ (DLA)
  - Microsoft® Windows Media Player version 10
  - Yahoo! Music Engine
- Trial Software
  - Microsoft Office Trial Small Business Edition (60-day trial)
  - McAfee® Active Shield Antivirus (30-day trial)
  - AOL® Internet Service (6-month trial)<sup>18</sup>

## Limited Warranty<sup>19</sup>

- 1-Year Standard Limited Warranty

## Accessories

### Memory

- PA3412U-2M51 Toshiba 512MB DDR2 533MHz PC2-4200 Memory Module, RoHS
- PA3411U-2M1G Toshiba 1GB DDR2 533MHz PC2-4200 Memory Module, RoHS

### Power

- PA2521U-2ACA Toshiba 90W Global AC Adapter
- PA3399U-2BRS Toshiba Primary Li Ion Battery Pack (6 Cell), RoHS
- PA3478U-1BRS Toshiba Primary Extended Capacity Li Ion Battery Pack (9 Cell), RoHS
- PA3400U-1BRS Toshiba Primary High Capacity Li Ion Battery Pack (12 Cell), RoHS
- PA3471U-1CHG Toshiba Battery Charger with AC Adapter

### Expansion

- PA3474U-1PRP Toshiba Advanced Port Replicator III+ w/90W AC Adapter, RoHS

### Security and Protection

- PA1370U-1ETC Toshiba Keyboard Protector (Satellite/Tecra/Qosmio)
- PA410U Toshiba DefCON CL Notebook Cable Lock

### Storage

- PA3109U-3FDD Toshiba USB Floppy Disk Drive Kit
- PA1399U-1MEM Toshiba 1GB USB Hi-Speed Flash Drive

### Wireless and Bluetooth

- PA3455U-1BTM Toshiba USB Adapter with Bluetooth 2.0+EDR Capability

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<sup>1</sup>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 [support.toshiba.com](http://support.toshiba.com). Toshiba America Information Systems, Inc. reserves the right to modify or withdraw this offer at anytime without notice. <sup>2</sup> 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 installations of the software product(s) or reconfigurations of the computer, and may not include user manuals or all program functionality. <sup>3</sup> CPU performance in your computer product is dependent upon 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 >1000 meters or >3280 feet above sea level) 8. Use of computer at temperatures outside the range of 5°C to 35°C (41°F to 95°F) or high altitude (all temperature references are approximations and may vary depending on the specific computer model – please visit [www.pcspport.toshiba.com](http://www.pcspport.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 this, always make backups of data by periodically storing it on an external storage medium. Use your computer product only under recommended conditions. These additional restrictions under "Detailed Specifications" Contrast Toshiba Technical Service and Support for more information. <sup>4</sup> Part of the main system memory may be used by the graphics system for graphics processing 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 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. <sup>5</sup> 1 Gigabyte (GB) means 109 – 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 = 230 = 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. <sup>6</sup> 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 recorded media 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. Copy protection technology may also prevent or limit recording to a specific optical media. <sup>7</sup> Small object may appear on your screen display when you turn on your PC. Your display contains an extremely large number of the film transistors (TFT) and is manufactured using high-precision 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. <sup>8</sup> 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. <sup>9</sup> 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. <sup>10</sup> Wireless connectivity and some features may require you to purchase additional software, external hardware or services. Availability of public wireless LAN access points may be limited. The transmission speed over the wireless LAN and the distance over which wireless LAN can reach may vary depending on surrounding electromagnetic environment, obstacles, access point design and configuration, and client design and software/hardware configurations. The actual transmission speed will be lower than the theoretical maximum speed. To use the Athena SuperAG™ or SuperG™ wireless function, if available, your client and access point must support the corresponding feature. Performance of these features may vary depending on the format of data transmitted. <sup>11</sup> Weight may vary depending on product configuration, vendor components, manufacturing variability and options selected. <sup>12</sup> 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 Specifications" 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](http://www.accessories.toshiba.com). <sup>13</sup> Measured by MobileMark. MobileMark is a trademark of the Business Applications Performance Corporation. <sup>14</sup> 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](http://www.easyguard.toshiba.com) for detailed information. <sup>15</sup> Toshiba's shock absorption technology provides higher impact protection for your system as compared to Toshiba systems without similar shock protection technologies based on Toshiba's drop tests. Toshiba's standard limited warranty terms and limitations apply. Visit [www.warranty.toshiba.com](http://www.warranty.toshiba.com) for details. <sup>16</sup> Under Toshiba testing conditions, the spill-resistant keyboard designed the time for a water spill to reach the PC's main board to allow more time to properly close the machine. <sup>17</sup> Some features 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 installations of the software product(s) or reconfigurations of the computer, and may not include user manuals or all program functionality. <sup>18</sup> Availability may be limited, especially during peak times. TO AVOID BEING CHARGED A MONTHLY MEMBERSHIP FEE, SIMPLY CANCEL BEFORE THE THREE-MONTH PROMOTIONAL PERIOD ENDS. Premium services carry surcharges and communication surcharges may apply, including AK, even during promotional period. Members may incur telephone charges on their phone bill, depending on their location and calling plan, even during promotional period. Available to new AOL members in the United States, age 18 or older; a major credit card or checking account is required. <sup>19</sup> Warranty: The terms and conditions of Toshiba's standard limited warranty are available at [www.warranty.toshiba.com](http://www.warranty.toshiba.com) © Copyright 2006. All Rights Reserved.