

**Model:**

Tecra R10 PTRB3C-ES109C

- Intel® Centrino® 2 processor technology featuring Intel® Core™2 Duo processor SP9400 – 2.4GHz, 14.1" WXGA, 4GB DDR2, 200GB 7200RPM HDD S-ATA, NVIDIA® Quadro® NVS 150M 128MB Graphics, DVD Super-Multi Double Layer, LAN, 802.11a/g/n Wireless, Bluetooth, Webcam, Genuine Windows Vista® Business

**Processor**

Intel® Core™2 Duo processor SP9400 (2.4GHz, 1066MHz FSB, L2 Cache 6MB)

**Operating System**

Genuine Windows Vista® Business (includes downgrade rights to Windows XP® Professional)  
Downgrade Media Included

**Memory**

**Standard Memory:** 4GB DDR2 (800MHz)  
Slot1: 2GB DDR2 (800MHz)  
Slot2: 2GB DDR2 (800MHz)

**Maximum Memory:** 8GB DDR2  
**Expansion Modules:** 1GB, 2GB, or 4GB DDR2

**Hard Disk Drive**

200.0 billion bytes, 9.5mm height, S-ATA, 7200rpm

**Optical Drive**

Built-in DVD Super-Multi Double Layer Drive functions:  
**Read:** CD-ROM (24x), DVD-ROM (8x),  
**Write:** CD-R (24x), CD-RW (4x), DVD-R (8x), DVD-R DL (4x), DVD-RW (6x), DVD+R (8x), DVD+R DL (4x), DVD+RW (8x), DVD-RAM (5x)

**Display System**

**Type:** TFT Active Matrix colour LCD display  
**Size (diagonal):** 14.1" WXGA (1280x800) TFT  
**Native LCD Panel Resolution:** 1280x800x16.7 million colours  
**External Support and Max. Colour Support (dependant On CRT):** Up to 2,048 x 1536 x 16.7 million colours

**Graphics Controller**

NVIDIA® Quadro® NVS 150M Graphics with 128MB dedicated video memory. Total Available Graphics Memory is 877MB using 749MB Shared + 128MB Dedicated graphics.

**Sound System**

Intel High Definition Audio, built-in speakers

**Communication**

10/100/1000bps Integrated Ethernet LAN + AMT 4.0  
Built-in Intel® WiFi Link 5100 (802.11a/g/n)  
Integrated Web Camera  
Bluetooth v2.1+EDR

**Expansion**

2 memory slots (both slots filled with 2GB module), both slots can be replaced by 1GB, 2GB or 4GB modules).

1 Express Card Slot

**Ports:** Bridge Media slot (SD- SD-HC), RGB, USB2.0 x 2, 1 combo eSATA/USB2.0, RJ45 (LAN), Headphone, Docking Connector

**Supported via Toshiba Express Port Replicator:** RGB, USB v2.0 – 4 ports, 10/100/1000 Ethernet port

**Keyboard**

Canadian Bilingual (English/French) Keyboard  
New Vista Keyboard  
Full sized 86 keys with 13 function keys  
Spill Resistant keyboard  
**Color:** (Black)

**Pointing Device**

Touchpad with Scroll function

**Additional Software**

Toshiba ConfigFree™  
Adobe Acrobat Reader  
TOSHIBA Disc Creator  
TOSHIBA DVD PLAYER  
Norton Internet Security™ 2008 – trial  
Microsoft Office Professional 2007 – trial

**Physical Dimensions**

**Dimensions:** 337 x 252 x 28.7/30.6mm  
**Weight:** 1.97kg with 6 cell 4000mAh battery  
**Color:** Titanium Silver

**AC Adapter**

75W external Universal AC adaptor input voltage (100 –240V 50/60Hz frequency), (15Vx5A)  
**Dimensions:** 127mm x 30.5mm x 51mm  
**Weight:** 355g

**Battery**

**Battery Type:** Removable, Rechargeable 6-cell Lithium Ion (Li-ion) (5100mAh)  
**Battery Life:** Approximately 4.0 hours (Mobile Mark)  
**Recharge Time:** approximately 2.5 hours when unit is OFF and between 3 to 9.5 hours when unit is ON.

**BIOS**

ACPI v2.0c, DDC, PnP, VESA, DPMS,  
SM BIOS v2.4, PCI BIOS Support V2.1.

**TOSHIBA EasyGuard™**

**Secure**

Toshiba Advanced Instant Security  
Toshiba Device Access Control  
Toshiba Multiple-Level Password Utilities

Toshiba Secure Digital Token Utility  
Toshiba Anti-theft Protection Timer  
Toshiba Reinforced Security Cable Lock Slot  
Execute Disable Bit (XD-Bit)  
Trusted Platform Module (TPM)  
Fingerprint Reader (includes software for password and identity management)  
CompuTrace™ BIOS support  
Wireless log-on via Bluetooth® mobile phone

**Protect & Fix**

**Spill-Resistant Keyboard Shock Absorbing Design**  
LCD Panel Shock Absorber  
LCD Inverter Shock Absorber  
**Hard Disk Drive Protection**  
HDD Dome Shock Protector  
HDD Shock Absorber  
3D Accelerometer  
**Toshiba Key Component Access Magnesium Alloy Casework**  
**Toshiba PC Diagnostic Tool**  
**Toshiba PC Health Monitor**

**Connect**

Diversity Antenna  
Toshiba ConfigFree®  
WiFi Easy Locator  
Toshiba Bluetooth® Stack

**Optimize**

Presentation Button  
Toshiba Zooming Utility  
One-touch Resolution Change  
Toshiba Power Saver Utility  
Toshiba Optical Disc Drive Power On/Off  
Wireless On/Off Switch  
Toshiba Fn-esse Shortcut Utility  
Toshiba Assist

**Environmental Specifications**

**Temperature:** Operating 5° to 35°C (41° to 95°F); Non Operating -20° to 65°C (-4° to 149°F)  
**Thermal Gradient:** Operating 15° C per hr. max; Non Operating 20° C per hr. max  
**Relative Humidity:** Operating 20% to 80% non-condensing; Non-Operating: 10% to 90% non-condensing  
**Altitude (relative to sea level):** Operating: -60 to 3,000m.; Non-Operating: -60 to 10,000m.  
**Shock:** Operating: 7G; Non-Operating 60G  
**Vibration:** Operating 0.2G; Non-Operating: 1G

**Environmental Credentials**

EPEAT  
Energy Star 4.0  
RoHS

**Canada and International Limited Warranty**

This Tecra notebook comes with a three (3) year parts and labour Limited International Warranty. Note the original battery is warranted for one year from date of purchase. Pre-installed software is excluded from TCL standard limited warranty. For complete details on this warranty program and other Warranty Programs such as On-site and Next Business Day Service visit toshiba.ca

## Accessories

### Toshiba Express Port Replicator

– PA3508C-1PRP

### Toshiba Dynadock U USB Docking Station with DVI & VGA Port

– PA3575C-1PRP

### USB FDD Kit

- ACC021

### Toshiba 75W 3Pin AC Adapter

– PA3378C-3AC3

### Toshiba Primary Li Ion Battery Pack (6 cell)

– PA3692U-1BRS

### Toshiba Secondary Slice Battery Pack (6 cell)

– PA3510U-1BAL

### Toshiba Memory Modules:

- PA3668U-1M1G (1GB DDR2 800MHz)
- PA3669U-1M2G (2GB DDR2 800MHz)

## Part Number/UPC code

PTRB3C-ES109C / 6-23506-01966-8

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### Central Processing Unit (“CPU” Performance Disclaimer:

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

- use of certain external peripheral products
- use of battery power instead of AC power
- use of certain multimedia games or videos with special effects
- use of standard telephone lines or low speed network connections
- use of complex modeling software, such as high end computer aided design applications
- use of computer in areas with low air pressure (high altitude >1,000 meters or >3,280 feet above sea level)
- use of computer at temperatures outside the range of 5°C to 35°C (41°F to 95°F) or > 25°C (77°F) at high altitude (all temperature references are approximate).

CPU performance may also vary from specifications due to design configuration. Under some conditions, your computer product may automatically shutdown. 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. For optimum performance, use your computer product only under recommended conditions. Read additional restrictions under “Environmental Conditions” in your product Resource Guide. Contact Toshiba Technical Support for more information.

**Hard Disk Drive Disclaimer:** 1 Gigabyte (GB) means 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 = 1,073,741,824 bytes, and therefore shows less storage capacity. Available storage capacity will also be less if the product includes pre-installed operating system and/or application software. Actual formatted capacity may vary.

**GPU:** Graphics processor 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.

**Memory:** 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.

**TFT Display Disclaimer:** Small bright dots may appear on your TFT 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.

**LCD:** Over a period of time, and depending on the usage of the computer, the brightness of the LCD screen will deteriorate. This is an intrinsic characteristic of LCD technology. Maximum brightness is only available when operating in AC power mode. Screen will dim when the computer is operated on battery power and you may not be able to increase the brightness of the screen.

**Weight:** Weight may vary depending on actual configuration.

**Battery:** Battery life may vary considerably 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. 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 of Canada website at [toshiba.ca/accessories](http://toshiba.ca/accessories)

#### 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 website at [toshiba.ca/support](http://toshiba.ca/support)

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