

## Toshiba Tecra W50-A-117 (PT640E-06503CBT)

39.624 cm (15.6 ") FHD, Intel Core i7-4810MQ, 32 GB DDR3L, 500GB SSD, DVD-Super Multi DL, NVIDIA Quadro K2100M 2 GB, 2.0 MP FHD, Express Card, Bluetooth, VGA, USB 3.0, eSATA/USB 2.0, Windows 7 Pro 64-Bit



### Price details:

Price excl. VAT: 1,158.35 €

Eco fees: 0.00 €

VAT 21 %: 243.25 €

### Product details:

Product code: PT640E-06503CBT

EAN: 4051528234220

Manufacturer: Toshiba

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**1,401.60 €**

\* VAT included

### EXTREME PERFORMANCE ON DEMAND

The Tecra W50-A isn't called a workstation for nothing. Driven by Intel Quad Core processors, it's a powerhouse of speed and strength that will cut through the heaviest of workloads. So you can rely on an extreme performance, right when you need it. Nothing will get in the way of your workflow as you switch between multiple applications or documents. Even if those applications are graphics-rich and particularly demanding, the dedicated NVIDIA Quadro graphics card with fast GDDR5 memory delivers a dramatically higher performance to accelerate tasks like video editing and creating animations.

### MIGHTY MOBILITY

The Tecra W50-A is as mobile as it is mighty, with all the ports and interfaces you need to work flexibly. There's the option of high-quality Wi-Fi with Bluetooth, so you can always access the important business information you need. And the latest USB 3.0 ports to transfer your data to other devices at blazing speeds. If you want to share or present your work, it's easy to connect to high-resolution professional displays, using DisplayPort. Or do it wirelessly, using the Intel Wireless Display (WiDi). You can even get faster access to your local network, with Gigabit LAN.

### BETTER CONNECTED

With the extra connectivity you get from the optional docking port, you can make the most of all your peripherals from the comfort of your desk. So it's easy to create a more comfortable and productive working environment. You might want to connect to a high-speed drive to quickly back up your day's work. Or use your printer to create hard copies of your meeting notes. And you can simply add a display if you prefer dual screens when working on multiple projects or documents.

### DURABLE MEETS DEPENDABLE

To prove its reliability, data security and manageability, the ultra durable Tecra W50-A has passed Highly Accelerated Life Tests (HALT), conducted by the independent German test institute, TÜV Rheinland®. It's also been drop-tested up to 76cm and tested for spill-resistance, so you have time to shut down and protect your data\* in the event of an accident. And with Toshiba Easyguard to safeguard your security, protection and connectivity, you can depend on the sturdy W50-A for all-round peace of mind too.

### ADVANCED SECURITY

The Tecra W50-A is full of advanced security features to help keep your business-critical data safe. Its Hard Disk Drive (HDD) is also a Self Encrypting Drive (SED) that automatically encrypts your data, without hindering the mighty performance of your W50-A. Along with the Trusted Platform Module (TPM), it protects the data on your local storage. From the start, a secure fingerprint reader makes signing on quick and personal to you, while Intel Anti-Theft means your laptop can be locked-down remotely to prevent unauthorised access. Or you can use the optional SmartCard for more advanced security solutions.

### HIGHLY EFFICIENT

**HIGHLY EFFICIENT** Every Tecra W50-A comes with Toshiba Eco Utility software, making it much easier to manage the power you use. It's recognized as an EPEAT Certified eco-friendly product too. And because it has an ENERGY STAR qualification, you can rely on the W50-A to balance a mighty performance with superior energy efficiency, day in, day out.

## Main specifications:

### Design

|                    |           |
|--------------------|-----------|
| Colour of product: | Black     |
| Product type:      | Notebook  |
| Form factor:       | Clamshell |

### Display

|                             |                    |
|-----------------------------|--------------------|
| Display diagonal:           | 15.6 "             |
| Display resolution:         | 1920 x 1080 pixels |
| Touchscreen:                | N                  |
| LED backlight:              | Y                  |
| HD type:                    | Full HD            |
| 3D:                         | N                  |
| Aspect ratio:               | 16:9               |
| Display response rise/fall: | 25 ms              |
| Panel type:                 | TFT                |

### Processor

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Processor frequency:                 | 2.8 GHz                          |
| Processor family:                    | Intel Core i7-4xxx               |
| Processor model:                     | i7-4810MQ                        |
| Processor boost frequency:           | 3.8 GHz                          |
| Processor cores:                     | 4                                |
| Processor threads:                   | 8                                |
| System bus rate:                     | 5 GT/s                           |
| Processor cache:                     | 6 MB                             |
| Processor cache type:                | Smart Cache                      |
| Processor lithography:               | 22 nm                            |
| Processor operating modes:           | 64-bit                           |
| Stepping:                            | C0                               |
| Bus type:                            | DMI2                             |
| Processor codename:                  | Haswell                          |
| Thermal Design Power (TDP):          | 47 W                             |
| Processor series:                    | Intel Core i7-4800 Mobile series |
| FSB Parity:                          | N                                |
| Maximum number of PCI Express lanes: | 16                               |
| PCI Express slots version:           | 3.0                              |
| PCI Express configurations:          | 1x16,2x8,1x8+2x4                 |
| Tjunction:                           | 100 °C                           |
| Conflict Free processor:             | Y                                |
| ECC supported by processor:          | N                                |

### Memory

|                               |             |
|-------------------------------|-------------|
| Internal memory:              | 32 GB       |
| Internal memory type:         | DDR3L-SDRAM |
| Maximum internal memory:      | 32 GB       |
| Memory clock speed:           | 1600 MHz    |
| Memory layout (slots x size): | 4 x 8 GB    |
| Memory slots:                 | 4x SO-DIMM  |

### Storage

|                             |        |
|-----------------------------|--------|
| Total storage capacity:     | 512 GB |
| Storage media:              | SSD    |
| Card reader integrated:     | Y      |
| Number of SSDs installed:   | 1      |
| Solid-state drive capacity: | 512 GB |
| Compatible memory cards:    | MMC,SD |

### Graphics

|   |                        |
|---|------------------------|
| On-board graphics adapter:                | Y                      |
| Discrete graphics adapter:                | Y                      |
| On-board graphics adapter model:          | Intel HD Graphics 4600 |
| Discrete graphics adapter model:          | NVIDIA Quadro K2100M   |
| On-board graphics adapter family:         | Intel HD Graphics      |
| On-board graphics adapter base frequency: | 400 MHz                |

On-board graphics adapter dynamic frequency: 1000 MHz  
 Maximum on-board graphics adapter memory: 1.74 GB  
 Number of displays supported (on-board graphics): 3  
 Discrete graphics adapter memory: 2 GB  
 Discrete graphics memory type: GDDR5  
 Number of discrete graphics adapters installed: 1  
 CUDA: Y  
 On-board graphics adapter DirectX version: 11.1  
 On-board graphics adapter OpenGL version: 4.3  
 On-board graphics adapter ID: 0x416  
 Graphics adapter Open GL support: Y

#### Audio

Audio system: DTS Studio Sound  
 Number of built-in speakers: 2  
 Built-in microphone: Y

#### Camera

Front camera: Y  
 Front camera resolution (numeric): 2 MP  
 Front camera resolution: 1980 x 1080 pixels  
 Swivel webcam: N  
 Rear camera: N

#### Optical drive

Optical drive type: DVD Super Multi DL  
 Disc types supported: CD,CD-R,CD-ROM,CD-RW,DVD+R,DVD+R DL,DVD+RW,DVD+RW DL,DVD-R,DVD-R DL,DVD-RAM,DVD-ROM,DVD-RW,DVD-RW DL  
 CD-R read speed: 24 x  
 CD-R write speed: 24 x  
 CD-RW write speed: 4 x  
 DVD-R write speed: 8 x  
 DVD-R Double Layer write speed: 6 x  
 DVD-RW write speed: 6 x  
 DVD+R write speed: 8 x  
 DVD+R Double Layer write speed: 6 x  
 DVD+RW write speed: 8 x  
 DVD-RAM write speed: 5 x

#### Networking

Bluetooth: Y  
 3G: N  
 4G: N  
 Wi-Fi: Y  
 Wi-Fi standards: IEEE 802.11a,IEEE 802.11ac,IEEE 802.11b,IEEE 802.11g,IEEE 802.11n  
 Ethernet LAN: Y  
 Ethernet LAN data rates: 10,100,1000 Mbit/s  
 Bluetooth version: 4.0 LE

#### Ports & interfaces

USB 2.0 ports quantity: 2  
 USB 3.0 (3.1 Gen 1) Type-A ports quantity: 2  
 DisplayPorts quantity: 1  
 eSATA/USB 2.0 ports quantity: 1  
 VGA (D-Sub) ports quantity: 1  
 DVI port: N  
 Ethernet LAN (RJ-45) ports: 1  
 Headphone outputs: 1  
 Microphone in: Y  
 S/PDIF out port: N  
 Docking connector: Y  
 DC-in jack: Y  
 ExpressCard slot: Y  
 SmartCard slot: Y  
 USB Sleep-and-Charge: Y  
 USB Sleep-and-Charge ports: 1

#### Keyboard

Numeric keypad: Y  
 Pointing device: DualPoint

|                          |     |
|--------------------------|-----|
| Keyboard number of keys: | 102 |
| Windows keys:            | Y   |
| Keyboard backlit:        | Y   |

#### Software

|                                |   |
|--------------------------------|---|
| Operating system installed:    | Windows 7 Professional  |
| Operating system architecture: | 64-bit  |
| Recovery operating system:     | Windows 8.1 Pro   |
| Bundled software:              | DTS Studio Sound McAfee Internet Security TOSHIBA Eco Utility TOSHIBA PC Health Monitor |
| Trial software:                | Microsoft Office 2013   |

#### Processor special features

|   |         |
|---|---------|
| Intel® Wireless Display (Intel® WiDi):                    | Y       |
| Intel® My WiFi Technology (Intel® MWT):                   | Y       |
| Intel® Anti-Theft Technology (Intel® AT):                 | Y       |
| Intel® Identity Protection Technology (Intel® IPT):       | Y       |
| Intel® vPro® Technology:                                  | Y       |
| Intel® Hyper Threading Technology (Intel® HT Technology): | Y       |
| Intel® Turbo Boost Technology:                            | 2.0     |
| Enhanced Intel SpeedStep Technology:                      | Y       |
| Intel® Clear Video HD Technology (Intel® CVT HD):         | Y       |
| Intel® InTru® 3D Technology:                              | Y       |
| Intel® Insider®:  | Y       |
| Intel® Quick Sync Video Technology:                       | Y       |
| Intel® Smart Cache:                                       | Y       |
| Intel QuickPath Interconnect:                             | Y       |
| Intel® AES New Instructions (Intel® AES-NI):              | Y       |
| Intel Trusted Execution Technology:                       | Y       |
| Intel Enhanced Halt State:                                | Y       |
| Intel VT-x with Extended Page Tables (EPT):               | Y       |
| Intel Demand Based Switching:                             | Y       |
| Intel® Secure Key:  | Y       |
| Intel TSX-NI:   | Y       |
| Intel 64:   | Y       |
| Execute Disable Bit:                                      | Y       |
| Idle States:  | Y       |
| Thermal Monitoring Technologies:                          | Y       |
| Processor package size:                                   | 37.5 mm |
| Supported instruction sets:                               | AVX 2.0 |
| Processor code:   | SR15K   |
| CPU configuration (max):                                  | 1       |
| Embedded options available:                               | N       |
| Intel Virtualization Technology for Directed I/O (VT-d):  | Y       |
| Intel Identity Protection Technology version:             | 1.00    |
| Intel Secure Key Technology version:                      | 1.00    |
| Intel TSX-NI version:                                     | 0.00    |
| Intel Virtualization Technology (VT-x):                   | Y       |
| Intel FDI Technology:                                     | Y       |
| Processor ARK ID:   | 78937   |

#### Battery

|                          |                      |
|--------------------------|----------------------|
| Battery technology:      | Lithium-Ion (Li-Ion) |
| Number of battery cells: | 6                    |
| Battery life (max):      | 4.5 h                |

#### Power

|                            |             |
|----------------------------|-------------|
| AC adapter input voltage:  | 100 - 240 V |
| AC adapter output current: | 9.5 A       |
| AC adapter output voltage: | 19 V        |

#### Security

|                                |                       |
|--------------------------------|-----------------------|
| Cable lock slot:               | Y                     |
| Cable lock slot type:          | Kensington            |
| Trusted Platform Module (TPM): | Y                     |
| Password protection:           | Y                     |
| Password protection type:      | HDD, Supervisor, User |

#### Weight & dimensions

|         |        |
|---------|--------|
| Weight: | 2700 g |
|---------|--------|

|         |          |
|---------|----------|
| Width:  | 380 mm   |
| Depth:  | 253.9 mm |
| Height: | 34.9 mm  |

**Packaging data**

|                      |   |
|----------------------|---|
| Manual:              | Y |
| AC adapter included: | Y |

**Certificates**

|                        |   |
|------------------------|---|
| Energy Star certified: | Y |
|------------------------|---|

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