

# Toshiba Portégé Z20t-B-10Z Azerty (PT15AE-01S00FBT)

Intel Core M-5Y51, 1.1 GHz, 8 GB LP-DDR3L RAM, 256 GB SSD, 31.75 cm (12.5 ") FHD IPS, Intel HD Graphics 5300, 5MP, Bluetooth 4.0 + LE, WLAN, LAN, 3G, 4G, HDMI, USB 3.0, Windows 8.1 Pro 64-bit (pre-installed)



## Price details:

Price excl. VAT: 1,489.81 €

Eco fees: 0.19 €

VAT 21 %: 312.90 €

## Product details:

Product code: PT15AE-01S00FBT

EAN: 4051528221688

Manufacturer: Toshiba

PDF generated on: 19 October, 2017



**1,802.90 €**

Product is discontinued. You can not order it anymore.

\* VAT included

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## Main specifications:

### Design

Product type:	Ultrabook
Colour of product:	Black
Form factor:	Convertible (Detachable)

### Processor

Processor frequency:	1.1 GHz
Processor family:	Intel Core M
Processor model:	M-5Y51
Processor boost frequency:	2.6 GHz
Processor cores:	2
Processor threads:	4
Processor cache:	4 MB
Processor socket:	BGA1234
Processor cache type:	L3
Processor lithography:	14 nm
Processor operating modes:	32-bit,64-bit
Stepping:	F0
Processor codename:	Broadwell
Thermal Design Power (TDP):	4.5 W
FSB Parity:	N
Maximum number of PCI Express lanes:	12
PCI Express slots version:	2.0
Tjunction:	95 °C
Configurable TDP-down frequency:	600 MHz
Scenario Design Power (SDP):	3.5 W
Maximum internal memory supported by processor:	16 GB
Conflict Free processor:	Y
Memory types supported by processor:	DDR3L-RS-SDRAM,DDR3L-SDRAM,LPDDR3-SDRAM
Memory clock speeds supported by processor:	1333,1600 MHz
Memory bandwidth supported by processor (max):	25.6 GB/s
Memory channels supported by processor:	Dual

ECC supported by processor:	N
<b>Memory</b>	
Internal memory:	8 GB
Internal memory type:	LPDDR3L-SDRAM
Memory clock speed:	1600 MHz
Maximum internal memory:	8 GB
Memory form factor:	On-board
<b>Storage</b>	
Total storage capacity:	256 GB
Storage media:	SSD
Number of SSDs installed:	1
Solid-state drive capacity:	256 GB
Card reader integrated:	Y
Compatible memory cards:	MicroSD (TransFlash)

<b>Display</b>	
Display diagonal:	12.5 "
Display resolution:	1920 x 1080 pixels
Touchscreen:	Y
LED backlight:	Y
Full HD:	Y
Display surface:	Matt
Aspect ratio:	16:9
Panel type:	IPS
Touch technology:	Multi-touch

<b>Graphics</b>	
On-board graphics adapter model:	Intel HD Graphics 5300
On-board graphics adapter outputs supported:	DisplayPort, Embedded DisplayPort (eDP), HDMI
On-board graphics adapter base frequency:	300 MHz
On-board graphics adapter dynamic frequency:	900 MHz
On-board graphics adapter maximum resolution:	2560 x 1600 pixels
On-board graphics adapter maximum resolution (DisplayPort):	2560 x 1600 pixels
Number of displays supported by on-board graphics adapter:	3
Discrete graphics adapter model:	N
On-board graphics adapter DirectX version:	11.2
On-board graphics adapter OpenGL version:	4.3

<b>Optical drive</b>	
Optical drive type:	N
LightScribe:	N

<b>Audio</b>	
Audio system:	DTS
Built-in microphone:	Y

<b>Camera</b>	
Front camera:	Y
Rear camera:	Y
Rear camera resolution (numeric):	5 MP

<b>Networking</b>	
Bluetooth:	Y
3G:	Y
4G:	Y
Wi-Fi:	Y
Wi-Fi standards:	802.11a,802.11ac,802.11b,802.11g,802.11n
Ethernet LAN:	Y
Ethernet LAN data rates:	10,100,1000 Mbit/s
Bluetooth version:	4.0 LE
2G standards:	EDGE,GPRS,GSM
3G standards:	HSPA+
4G standards:	LTE

<b>Ports &amp; interfaces</b>	
USB 3.0 (3.1 Gen 1) Type-A ports quantity:	2
Micro-USB 2.0 ports quantity:	1
VGA (D-Sub) ports quantity:	1
HDMI ports quantity:	1
DVI port:	N

Ethernet LAN (RJ-45) ports:	1
Microphone in:	N
S/PDIF out port:	N
Combo headphone/mic port:	Y
Docking connector:	Y
DC-in jack:	Y
ExpressCard slot:	N
CardBus PCMCIA slot type:	N
SmartCard slot:	N

#### Performance

GPS (satellite):	Y
Electronic compass:	Y
Ambient light sensor:	Y
Accelerometer:	Y
Gyroscope:	Y

#### Keyboard

Pointing device:	Clickpad
Numeric keypad:	Y
Keyboard number of keys:	87
Spill resistant keyboard:	Y
Keyboard backlit:	Y

#### Software

Operating system installed:	Windows 8.1 Pro
Operating system architecture:	64-bit
Bundled software:	Cyberlink Media PlayerDTS Studio SoundEvernoteTOSHIBA Display UtilityTOSHIBA Eco UtilityTOSHIBA Function KeyTOSHIBA PC Health MonitorTOSHIBA System Settings
Trial software:	McAfee LiveSafe, Microsoft Office

#### Processor special features

Intel Wireless Display (WiDi) Technology:	Y
Intel My WiFi Technology:	N
Intel Anti-Theft Technology:	N
Intel Smart Response Technology:	Y
Intel Identity Protection Technology:	Y
Intel vPro Technology:	N
Intel Hyper-Threading Technology:	Y
Intel Turbo Boost Technology:	2.0
Intel Small Business Advantage (SBA):	Y
Enhanced Intel SpeedStep Technology:	Y
Intel Built-in Visuals Technology:	Y
Intel HD Graphics:	Y
Intel Clear Video HD Technology:	Y
Intel Clear Video Technology:	N
Intel InTru 3D Technology:	Y
Intel Insider:	Y
Intel Quick Sync Video Technology:	Y
Intel Flex Memory Access:	Y
Intel AES New Instructions:	Y
Intel Trusted Execution Technology:	N
Intel Enhanced Halt State:	Y
Intel VT-x with Extended Page Tables (EPT):	Y
Intel Demand Based Switching:	N
Intel Secure Key:	Y
Intel Stable Image Platform Program (SIPP):	N
OS Guard:	Y
Intel Clear Video Technology for MID:	N
Intel 64:	Y
Execute Disable Bit:	Y
Thermal Monitoring Technologies:	Y
Processor package size:	30 mm
Supported instruction sets:	AVX 2.0,SSE4.1,SSE4.2
Processor code:	SR23L
CPU configuration (max):	1
Embedded options available:	N
Graphics & IMC lithography:	14 nm

Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel Virtualization Technology (VT-x):	Y
Intel Dual Display Capable Technology:	N
Intel FDI Technology:	Y
Intel Rapid Storage Technology:	N
Intel Fast Memory Access:	Y

#### Battery

Battery technology:	Lithium Polymer (LiPo)
Number of battery cells:	3
Battery life (max):	17 h
Battery life (tablet mode):	9 h
Number of battery cells (tablet):	3

#### Power

AC adapter input voltage:	100 - 240 V
AC adapter output current:	2.37 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:	1510 g
Width:	309 mm
Depth:	215.2 mm
Height (front):	18.5 mm
Height (rear):	21 mm
Weight (tablet mode):	730 g
Width (tablet mode):	309 mm
Depth (tablet mode):	199.9 mm
Height (tablet mode):	8.8 mm

#### Packaging data

AC adapter included:	Y
Stylus pen:	Y

#### Certificates

Energy Star certified:	Y
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