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Products

Toshiba recommends  
 Microsoft® Windows®  
 XP Professional

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**Portégé M200-152: Intel®  
 Centrino™ mobile technology  
 including Intel® Pentium® M  
 processor 745/ XP Tablet/ 12.1"  
 TFT/ 60 GB/ 512 MB/ LAN/ Wi-Fi/  
 BT**

Part Number : PPM21E-0260Z-EN

[Product model page](#)
 PRINT

## Product properties

Property	Value
Display	<ul style="list-style-type: none"> <li>■ manufacturer : Toshiba</li> <li>■ size : 12.1 "</li> <li>■ type : SXGA+ TFT polysilicon active matrix display</li> <li>■ internal resolution : 1,400 x 1,050 pixels</li> <li>■ colour palette : 16.7 million</li> <li>■ dot pitch (HxV) : 0.176 x 0.176 mm</li> <li>■ diagonal : 12.1 "</li> <li>■ typical contrast ratio : 150:1</li> <li>■ response rise/fall : 23/9 ms</li> <li>■ LCD brightness levels 1-8 : 7-23-35-62-80-100-120-140 cd/m<sup>2</sup></li> </ul>
Expansion	<ul style="list-style-type: none"> <li>■ 2 x memory slots</li> <li>■ 1 x PC Card slot for 1 Type II card</li> <li>■ 1 x connection to Advanced Port Replicator III (optional)</li> </ul>
Hard disk	<ul style="list-style-type: none"> <li>■ capacity : 60 GB</li> <li>■ certification : S.M.A.R.T.</li> <li>■ height : 9.5 mm</li> <li>■ drive rotation : 5,400 rpm</li> <li>■ number of disks : 2</li> <li>■ number of heads : 4</li> <li>■ interface : Enhanced IDE (ATA-5)</li> <li>■ buffer size : 8 MB</li> <li>■ desktop or notebook? : notebook</li> </ul>
Keyboard	<ul style="list-style-type: none"> <li>■ manufacturer : Hoshiden</li> <li>■ Keys : 85</li> <li>■ Windows® keys : 2</li> <li>■ function keys : 13</li> </ul>

- Euro key : yes
- key pitch : 19.00 x 17.67 mm
- key stroke : 1.7 mm
- number of cursor keys : 4
- inlaid numeric keypad : yes
- Hot Keys : 3

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**Non-operating environmental conditions**

- temperature : -20°C - 55°C
- maximum thermal gradient : 20°C/hour
- relative humidity : 10-90%
- altitude : -60 to 10,000 m
- shock with optical disk drive installed (without optical disk drive installed) : (60G)
- vibration with optical disk drive installed (without optical disk drive installed) : (1G)

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**Operating environmental conditions**

- temperature : 5°C - 35°C
- maximum thermal gradient : 15°C/hour
- relative humidity : 20-80%
- altitude : -60 to 3,000 m
- shock with optical disk drive installed (without optical disk drive installed) : (10G)
- vibration with optical disk drive installed (without optical disk drive installed) : (0.5G)

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**System memory**

- standard : 512 MB
- maximum expandability : 2,048 MB
- data bus width : 64 bit
- technology : DDR RAM
- expansion module sizes : 128, 256, 512, 1,024 MB

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**Interfaces**

- 1 x headphone
- 1 x DC-in
- 1 x RJ-11
- 1 x RJ-45
- 1 x external microphone
- 1 x SD™ Card slot
- 1 x external monitor
- 2 x USB 2.0

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**Pointing device**

- type : Touch Pad
- manufacturer : WACOM
- type : Tablet Pen

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**Motherboard**

- manufacturer : Intel®
- chipset : Intel® 855PM + 82801DBM integrated in Intel® Centrino™ Mobile Technology
- architecture : AGP x 4-bus, PCI-bus

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**AC adapter**

- input voltage : autosensing AC adapter (100/240 V) for worldwide usage
- frequency : 50-60 Hz
- output voltage : 15 V
- output current : 4 A
- power dissipation : 60 W
- weight : 262 g

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**Battery**

- type : main
- technology : lithium-ion
- performance : 4400 mAh
- maximum life : up to 4:21 (Mobile Mark™) hours
- power on : 3:00 - 10:00 hours

- power off : 2:30 hours

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**Graphics adapter**

- manufacturer : NVIDIA®
- type : GeForce™ FX Go5200
- memory amount : 32 MB
- memory type : DDR Video RAM
- graphics accelerator : 128 bit
- bus clock speed : 200 MHz
- 2D graphics accelerator : Yes
- 3D graphics accelerator : Yes
- open GL support : Yes
- direct 3D support : Yes
- motion compensation : tbd
- integrated TV encoder : tbd
- reduce TV out flicker : tbd
- multiple display support : tbd
- connected bus : 4 x AGP bus

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**BIOS**

- manufacturer : Toshiba
- ACPI : 1.0b
- System Management BIOS : 2.3
- Flash ROM : CMOS Flash EPROM
- memory size : 4 Mbit
- DPMS Support : Yes
- VESA Support : 2.0
- DDC Support : DDC2B

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**Physical dimensions**

- W x L x H : 295 x 249 x 33.2/36.9 mm
- weight : 2.0kg(min) ~ 2.1kg(max)

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**Sound system**

- manufacturer : Toshiba Bass Enhanced Sound System
- supported audio format : 16-bit stereo
- speakers : built-in speaker
- microphone : built-in microphone array
- type : AD1981B
- maximum sampling rate : 48 kHz
- full duplex support : Yes
- direct sound : Yes
- direct 3D sound : Yes
- volume dial : Yes

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**External video modes**

- The following video modes are supported:
- resolution:640 x 480 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 100 Hz
  - resolution:800 x 600 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 100 Hz
  - resolution:1,024 x 768 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 100 Hz
  - resolution:1,280 x 1,024 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 100 Hz
  - resolution:1,600 x 1,200 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 100 Hz
  - resolution:1,920 x 1,440 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 75 Hz
  - resolution:2,048 x 1,536 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 75 Hz
  - resolution:1,400 x 1,050 , maximum number of colours:16.7 million, maximum refresh rate (non interlaced) : 75 Hz

interlaced) : 100 Hz

<b>Internal video modes</b>	<ul style="list-style-type: none"> <li>■ resolution : 1,400 x 1,050</li> <li>■ maximum number of colours : 16.7 million</li> </ul>
<b>Operating system</b>	<ul style="list-style-type: none"> <li>■ Windows® XP Tablet PC Edition</li> </ul>
<b>Wired communication</b>	<ul style="list-style-type: none"> <li>■ manufacturer : Intel®</li> <li>■ type : 82562ET</li> <li>■ topology : Ethernet</li> <li>■ speed : 10/100 Base-TX Ethernet LAN</li> <li>■ features : Wake-On-LAN, remote boot</li> <li>■ connector : RJ-45</li> <li>■ manufacturer : Agere</li> <li>■ type : Scpio AC 97 soft modem</li> <li>■ topology : international V.90 modem</li> <li>■ speed : 56 Kbps data (V.90); 14.4 Kbps fax (V.17)</li> <li>■ features : ring wake-up resume</li> <li>■ connector : RJ-11</li> </ul>
<b>Wireless communication</b>	<ul style="list-style-type: none"> <li>■ Compliancy : FIR</li> <li>■ Wireless Technology : Fast InfraRed</li> <li>■ Version : IrDA 1.1</li> <li>■ Manufacturer : Intel® PRO/Wireless 2200BG LAN Mini PCI adaptor integrated in Intel® Centrino™ mobile technology</li> <li>■ Wireless Technology : Wireless LAN (802.11b/g)</li> <li>■ Manufacturer : Taiyo-Yuden</li> <li>■ Wireless Technology : Bluetooth™</li> <li>■ Version : 1.2</li> </ul>
<b>Max. external video modes</b>	<ul style="list-style-type: none"> <li>■ max. resolution : 2,048 x 1,536</li> <li>■ max. colours : 16.7 million</li> <li>■ max. refresh rate : 100 Hz</li> <li>■ non-interlaced resolution with max. refresh rate : 1,600 x 1,200</li> </ul>
<b>Technology</b>	<ul style="list-style-type: none"> <li>■ type : Intel® Centrino™ mobile technology including Intel® Pentium® M processor 745, Intel® PRO/Wireless 2200BG network connection and Intel® 855PM chipset</li> <li>■ clock speed : 1.80 GHz</li> <li>■ Front Side Bus : 400 MHz</li> <li>■ 2nd level cache : 2 MB</li> </ul>
<b>Bundled hardware</b>	<ul style="list-style-type: none"> <li>■ AC adapter</li> <li>■ Tablet Pen</li> </ul>
<b>Bundled software</b>	<ul style="list-style-type: none"> <li>■ Toshiba utilities and drivers</li> <li>■ online user manual</li> <li>■ Toshiba Management Console</li> <li>■ Bluetooth™ Service Center</li> <li>■ Toshiba ConfigFree™</li> <li>■ Microsoft® Office OneNote™ 2003</li> <li>■ Symbol Commander</li> </ul>
<b>Casework</b>	<ul style="list-style-type: none"> <li>■ Magnesium painted &amp; plastic painted</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>■ CSA</li> <li>■ FCC</li> </ul>

- UL
- CE Mark
- The manufacturer declares that this product complies with the following directives and regulations for the CE-marking. Responsible for CE marking is Toshiba Europe GmbH, Hammfelddamm 8, 41460 Neuss, Germany.
- TÜV / GS Mark
- FCC part 15 class B
- UL1950
- CSA950
- Industry Canada
- FCC Part68
- UL/cUL
- R&TTE

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**Security features**

- main hard disk (by screw)
- keyboard lock
- main memory (by screw)
- BIOS password
- HDD password on request
- supervisor password
- slot for Kensington Cable Lock
- user password
- built-in modem/LAN (by screw)
- Wireless LAN switch
- system password security
- Tablet Access Code Logon utility

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**Special features**

- ACPI support
- Wake-on-LAN
- SM BIOS compliant

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**Warranty**

- 1-year international warranty. Upgrade your standard warranty with Toshiba warranty extension and uplift packs. Contact your nearest Toshiba Authorised Reseller for details.
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