

E640 Specifications (v3-0-1)	
Operating system¹	Genuine Windows [®] 7 Home Premium 64-bit ² Genuine Windows [®] 7 Home Basic 64-bit ²
CPU/chipset¹	AMD Phenom™ II quad-core mobile processor N930 (2 MB L2 cache, 2 GHz, 1333 MHz FSB, 35 W) AMD Phenom™ II triple-core mobile processor N830 (1.5 MB L2 cache, 2.10 GHz, 1333 MHz FSB, 35 W) AMD Turion™ II dual-core mobile processor P520/N530 (2 MB L2 cache, 2.30/2.50 GHz, 1066 MHz FSB, 25/35 W) AMD Athlon™ II dual-core processor P320/N330 (1 MB L2 cache, 2.10/2.30 GHz, 1066 MHz FSB, 25/35 W) AMD M880G Chipset
System memory^{1, 3, 4}	Dual-channel DDR3 SDRAM support: <ul style="list-style-type: none"> Up to 4 GB of DDR3 1066 MHz memory, upgradable to 8 GB using two soDIMM modules⁵
Display	15.6" HD 1366 x 768 pixel resolution, high-brightness (220-nit) with glare panel Mercury free, environment friendly 16:9 aspect ratio
Graphics¹	ATI Radeon™ HD 4250 Graphics with 256 MB of dedicated system memory, supporting Unified Video Decoder 2 (UVD2), OpenEXR High Dynamic-Range (HDR) technology, Shader Model 4.1, Microsoft® DirectX® 10.1 Dual independent display support 16.7 million colors External resolution / refresh rate ⁶ : <ul style="list-style-type: none"> VGA port up to 2456 x 1536: 60 Hz HDMI™ port up to 1920 x 1080: 60 Hz MPEG-2/DVD decoding WMV9 (VC-1) and H.264 (AVC) decoding HDMI™ (High-Definition Multimedia Interface) with HDCP (High-bandwidth Digital Content Protection) support
Audio	High-definition audio support with two built-in stereo speakers MS-Sound compatible
Storage	160/250/320/500/640 GB or larger hard disk drive ^{1, 7} Multi-in-1 card reader, supporting Secure Digital™ (SD), MultiMediaCard™ (MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)
Optical media	8X DVD-Super Multi double-layer drive:

E640 Specifications (v3-0-1)	
drive	<ul style="list-style-type: none"> • Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 8X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 8X DVD-RW, 8X DVD+RW, 5X DVD-RAM • Write: 24X CD-R, 24X CD-RW, 8X DVD-R, 8X DVD+R, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM
Communication	<p>Video Conferencing solution¹, featuring:</p> <ul style="list-style-type: none"> • Webcam with 1280 x 1024 resolution <p>WLAN⁸:</p> <ul style="list-style-type: none"> • 802.11b/g/n Wi-Fi CERTIFIED™ • 802.11b/g Wi-Fi CERTIFIED™ <p>WPAN¹:</p> <ul style="list-style-type: none"> • Bluetooth® 2.1+EDR • Bluetooth® 3.0+HS <p>LAN: Gigabit Ethernet, Wake-on-LAN ready</p>
Dimensions and weight¹	<p>381 (W) x 253 (D) x 25/30 (H) mm (14.96 x 9.9 x 0.98/1.18 inches)</p> <p>2.6 kg (6.37 lbs.) with 6-cell battery pack⁹</p>
Power adapter and battery¹	<p>ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes</p> <p>3-pin 65 W AC adapter:</p> <ul style="list-style-type: none"> • 108 (W) x 46 (D) x 29.5 (H) mm (4.25 x 1.81 x 1.16 inches) • 225 g (0.49 lbs.)⁹ with 180 cm DC cable <p>4400 mAh 6-cell Li-ion standard battery pack</p> <p>Estimated battery life: Up to 3.7 hours¹⁰</p> <p>ENERGY STAR®</p>
Special controls	<p>99-/100-/103-key keyboard</p> <p>Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip</p> <p>Nine function keys, four cursor keys, Windows® key, international language support</p>
I/O ports	<p>Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)</p> <p>Three USB 2.0 ports</p> <p>HDMI™ port with HDCP support</p> <p>External display (VGA) port</p> <p>Headphone/speaker/line-out jack</p> <p>Microphone-in jack</p>

E640 Specifications (v3-0-1)	
	Ethernet (RJ-45) port DC-in jack for AC adapter
Software¹¹	<p>Productivity</p> <ul style="list-style-type: none"> • eMachines Power Management • eMachines Recovery Management • Adobe® Flash® Player 10 • Adobe® Reader® 9.1 • Google Toolbar™ • Microsoft® Works SE 9¹ (Brazil, Canada, France, Germany, Poland, Russia, UK and US only) • Microsoft® Works 9 • Microsoft® Works 8.5 • Norton™ Online Backup <p>Security</p> <ul style="list-style-type: none"> • Norton Internet Security™ 2010 <p>Multimedia</p> <ul style="list-style-type: none"> • Corel® WinDVD¹ (for models with Windows® 7 Starter and Basic) • NTI Media Maker™ <p>Gaming</p> <ul style="list-style-type: none"> • WildTangent®¹ (except China, Japan, Hong Kong, Korea) <p>Communication and ISP</p> <ul style="list-style-type: none"> • Microsoft® Silverlight™ • Skype™ • Windows Live™ Essentials — Wave 3 (Mail, Photo Gallery, Live™ Messenger, Writer) <p>Web links and utilities</p> <ul style="list-style-type: none"> • eMachines Identity Card • eMachines Registration • eMachines Updater
Optional items	1 GB / 2 GB/4GB DDR3 1066 MHz soDIMM module 3-pin 65 W AC adapter 4400 mAh 6-cell Li-ion battery pack
Windows®. Life without Walls™. eMachines recommends Windows 7. 1. Specifications vary depending on model.	

E640 Specifications (v3-0-1)

2. 64-bit software is required to enjoy the advantages of 64-bit processing.
3. This system is bundled with DDR3 1066 MHz memory; however, memory speed may vary depending on CPU/chipset support.
4. Shared system memory may be allocated to support integrated graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by the amount of dedicated and shared system memory utilized by the graphics solution and resources required by the operating environment.
5. A 64-bit operating system is required to enjoy the ultimate performance of 4 GB or higher memory.
6. Resolution/refresh rates depend on display capability and color/depth settings.
7. 1 GB is 1 billion bytes. Actual formatted capacity is less and may vary depending on preloaded materials and the operating environment. eMachines Recovery Management utilizes up to 10 GB of the stated hard disk capacity as dedicated backup space.
8. Actual throughput may vary depending on network conditions and environmental factors such as network traffic or overhead, building construction and access point settings.
9. Weight may vary depending on product configuration, vendor components, manufacturing variability, and selected options.
10. Your computer's battery life may vary depending on product specifications, computer settings, and applications or features launched. The listed battery life is for individual battery packs tested with MobileMark 2007 in productivity test mode, and with wireless connection on. All batteries' maximum capacity will diminish with time and use.
11. Bundled software may vary depending on hardware configuration, OS, and regional availability.

In a continuing effort to improve the quality of our products, information in this document is subject to change without notice. Images shown are only representations of some of the configurations available for this model. Availability may vary depending on region.

As a phenomenon known to thin-film transistors (TFTs), liquid crystal displays (LCDs) commonly exhibit a small number of discoloration dots, as so-called "non-conforming pixels." This phenomenon is a limitation of TFT LCD technology, not a product defect, and as such is not covered by warranty.

© 2010. All rights reserved.

Microsoft and Windows are registered trademarks of Microsoft Corporation.

About eMachines

eMachines, renowned for offering maximum value and functionality, is part of the Acer family of technology products. Acer Inc. is the world's second-largest PC company. Through collaboration with suppliers, the company strives to design environmentally friendly products and establish a green supply chain. See www.emachines.com for more information.

E640 Specifications (v3-0-1)

