emachines®

G640 Specifications (v4-1-1)	
Operating system[1]	Genuine Windows® 7 Home Premium 64-bit[2]
	Genuine Windows® 7 Home Basic 64-bit[2]
CPU and chipset[1]	**AMD Phenom™ II** triple-core mobile processor **N830** (1.5 MB L2 cache, 2.10 GHz, DDR3 1333 MHz , 35 W),
	AMD Turion™ II dual-core mobile processor **P520/N530** (2 MB L2 cache, 2.30/2.50 GHz, DDR3 1066 MHz , 25/35 W)
	AMD Athlon™ II dual-core processor **P320/N330** (1 MB L2 cache, 2.10/2.30 GHz, DDR31066 MHz , 25/35 W)
	AMD M880G Chipset
Memory[1, 3, 4]	Dual-channel DDR3 SDRAM support:
	• Up to 4 GB of DDR3 system memory, upgradable to 8 GB using two soDIMM modules[5] (for 64-bit OS)
	• Up to 2 GB of DDR3 system memory, upgradable to 4 GB using two soDIMM modules[6] (for 32-bit OS)
	• Up to 2 GB of DDR3 system memory (for Windows® 7 Starter only)
Display	17.3" HD+ 1600 x 900 pixel resolution, high-brightness (220-nit), LED-backlit TFT LCD with glare panel
	Mercury-free LED backlight, environment friendly
	16:9 aspect ratio
Graphics	ATI Radeon™ HD 4250 Graphics with 256 MB of dedicated system memory, supporting Unified Video Decoder 2 (UVD2), OpenGL® 2.0, 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 rates[6]:
	• 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	Two built-in stereo speakers
	High-definition audio support
	MS-Sound compatible

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Storage	**Hard disk drive** • 160/250/320/500/640 GB or larger[1, 7] **Multi-in-1 card reader, supporting:** • Multi-in-1 card reader, supporting Secure Digital™ (SD) Card, MultiMediaCard™ (MMC), Memory Stick™ (MS), Memory Stick PRO™ (MS PRO), xD-Picture Card™ (xD)
Optical media drive[1]	8X DVD-Super Multi double-layer drive: • Read: 24X CD-ROM, 24X CD-R, 24X CD-RW, 8X DVD-ROM, 8X DVD-R, 8X DVD+R, 6X DVD-ROM DL, 6X DVD-R DL, 6X DVD+R DL, 6X DVD-RW, 6X DVD+RW, 5X DVD-RAM • Write: 24X CD-R, 16X CD-RW, 8X DVD-R, 8X DVD+R, 4X DVD-R DL, 4X DVD+R DL, 6X DVD-RW, 8X DVD+RW, 5X DVD-RAM
Webcam	Video conferencing solution[1], featuring: • Webcam with 1280 x 1024 resolution • Microphone
Wireless and networking	WLAN[1, 8]: • 802.11b/g/n Wi-Fi CERTIFIED™ • 802.11b/g Wi-Fi CERTIFIED™ WPAN[1]: Bluetooth® 2.1+EDR WPAN[1]: Bluetooth 3.0+HS LAN: Gigabit Ethernet, Wake-on-LAN ready
Dimensions and weight[1]	**Dimensions** 410 (W) x 275 (D) x 27.1/34.3 (H) mm (16.1 x 10.8 x 1.1/1.35 inches) **Weight** 3.3 kg (7.29 lbs.) with 6-cell battery pack[9]

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Power adapter and battery[1]	ACPI 3.0 CPU power management standard: supports Standby and Hibernation power-saving modes
	Power adapter
	3-pin 65 W AC adapter:
	• 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
	Battery
	48.8 W 4400 mAh 6-cell Li-ion standard battery pack
	Battery life: 3.3 hours[10]
	ENERGY STAR®
Input and control	**Keyboard**
	103-/104-/107-key keyboard with inverted "T" cursor layout, 11 function keys, four cursor keys, two Windows® keys, hotkey controls, independent standard numeric keypad, international language support
	Touchpad
	Multi-gesture touchpad, supporting two-finger scroll, pinch, rotate, flip
	Media keys
	Media control keys (printed on keyboard): play/pause, stop, previous, next
Input and output	Multi-in-1 card reader (SD™, MMC, MS, MS PRO, xD)
	Three USB 2.0 ports[1]
	External display (VGA) port
	HDMI™ port with HDCP support
	Headphone/speaker/line-out jack
	Microphone-in jack
	Ethernet (RJ-45) port
	DC-in jack for AC adapter
Software[11]	**Productivity**
	• eMachines Power Management
	• eMachines Recovery Management
	• Adobe® Flash® Player 10
	• Adobe® Reader® 9.1
	• Google Toolbar™
	• Google Setup™
	• Microsoft® Office Personal 2007 (Service Pack 2)[1]

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	(Japan only, subject to customer request)
	• Microsoft® Office Trial (Service Pack 2)
	• Microsoft® Works SE 9[1] (Brazil, Canada, France, Germany, Poland, Russia, UK and US only)
	• Microsoft® Works 9
	• Microsoft® Works 8.5
	• Norton™ Online Backup
	Security
	• Norton Internet Security™ 2010
	• Symantec™ Virus Definitions
	Multimedia
	• Corel® WinDVD[1] (for models with Windows® 7 Starter and Basic)
	• NTI Media Maker™
	Gaming
	• WildTangent®[1] (except China, Japan, Hong Kong, Korea)
	Communication and ISP
	• Microsoft® Silverlight™
	• Skype™
	• Windows Live™ Essentials — Wave 3 (Mail, Photo Gallery, Live™ Messenger, Writer)
	Web links and utilities
	• eMachines Accessory Store[1] (Belgium, France, Germany, Italy, Netherlands, Spain, Sweden, UK only)
	• eMachines Identity Card
	• eMachines Registration
	• eMachines Updater
	• eBay® shortcut 2009[1] (Canada, France, Germany, Italy, Mexico, Spain , UK, US only)
	• Netflix shortcut[1] (US only)
Options and accessories	1 GB / 2 GB DDR3 soDIMM module
	6-cell Li-ion battery pack
	3-pin 65 W AC adapter
	External USB 56K modem

Windows®. Life without Walls™. eMachines recommends Windows 7.

1. Specifications vary depending on model.

2. 64-bit software is required to enjoy the advantages of 64-bit processing.

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3. Shared system memory may be allocated to support graphics, depending on system memory size and other factors. Actual system memory available to the operating system will be reduced by any memory used by the graphics solution and resources required by the operating environment.

4. This system is bundled with DDR3 1066 MHz memory; however, memory speed may vary depending on CPU/chipset support.

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. The listed battery life is based on MobileMark 2007® productivity mode testing with wireless on. Details of MobileMark2007® testing are available at www.bapco.com. Battery life rating is for comparison purposes only. Actual battery life varies by model, configuration, applications, power management settings, operating conditions, and utilized features. A battery's maximum capacity decreases 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 eMachines' warranty.

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.

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