A EIENWARE® M15x COMPREHENSIVE SPECIFICATIONS

The contents herein are subject to change without notice.

© 2009 Dell Inc. All rights reserved.

Reproduction of these materials in any manner whatsoever without the prior written permission of Dell Inc. is strictly prohibited.

Trademarks used in this manual: *Alienware* and *AlienFX* are trademarks or registered trademarks of Alienware Corporation; *Dell* is a trademark of Dell Inc.; *Intel* is a registered trademark and *Core* is a trademark of Intel Corporation in the U.S. and other countries; *Blu-ray Disc* is a trademark of the Blu-ray Disc Association; *Bluetooth* is a registered trademark owned by Bluetooth SIG, Inc. and is used by Dell under license.

Other trademarks and trade names may be used in this manual to refer to either the entities claiming the marks and names or their products. Dell Inc. disclaims any proprietary interest in trademarks and trade names other than its own.

Model: P08G Type: P08G001 September 2009

CDEWYNY-WYY-017 OLWCDUX() 1267-7

COMPREHENSIVE SPECIFICATIONS

Computer Model Alienware M15x **Dimensions** 48.7 mm (1.92 inches) - Front and Back Height Width 377.93 mm (14.88 inches) 308.51 mm (12.15 inches) Depth Weight with 6-cell battery 4.08 kg (9.00 lb) (starting at) **NOTE**: The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability. **Processor and System Chipset** Processor Intel® Core™ i7 L2 Cache 256 KB

up to 8 MB

to 1333MHz

Mobile Intel PM55

one or two 64-bit channels of DDR3 memory up

133 MHz

L3 Cache

Bus clock

System chipset SDRAM bus width

Processor	and System Chiរុ	oset
Processor a width	address bus	32 bits
Processor (data width	64 bits
BIOS EPRO	М	16 Mbit
Graphics b	US	PCle x16 bus supporting x16 PCle MXM 3.0 graphics cards
PCI bus		32 bits
Memory		
Connectors	5	two internally-accessible SODIMM sockets

Capacities

possible

Memory types

Memory configurations

1 GB, 2 GB, and 4 GB modules

2 GB, 3 GB, 4 GB, and 8 GB

1067 MHz and 1333 MHz DDR3

ExpressCard		Ports and Connectors		
Interface	supports PCIe and USB 2.0	IEEE 1394 A	one 4-pin serial connector	
Connector	one 26-pin ExpressCard slot (54 mm)	Network adapter	one RJ45 connector 10/100/1000 Mbps	
Cards supported	ExpressCard/34 (34 mm) ExpressCard/54 (54 mm)	USB	three 4-pin USB 2.0-compliant connectors, including one through eSATA/USB combo connector	
IEEE 1394/Media Card		eSATA	one through eSATA/USB combo connector	
IEEE 1394/Media Card controller	Ricoh R5C833	VGA	one 15-hole connector	
IEEE 1394 interface Media Card formats supported	compliant with standard IEE1394a-2000 specification Secure Digital (SD) memory card Secure Digital High Capacity (SDHC) card Secure Digital Input/Output (SDIO) card Multi Media Card (MMC) Memory Stick Memory Stick Memory Stick PRO xD-Picture Card (type - M and type - H) Hi Density-SD (SDHD)	DisplayPort	one 20-pin connector	
		Audio	one microphone connector, two stereo headphone/speaker connectors	
		ExpressCard	one ExpressCard/54 connector	
		8-in-1 Media Card Reader	one combo connector	
		Communications		
		Network adapter	10/100/1000 Mbps Ethernet LAN on system board	
		Wireless	 WLAN Mini-Card (Half Mini-Card slot) WPAN, Bluetooth® card (Full Mini-Card slot) 	

Video		Camera	
LCD interface	Low Voltage Differential Signaling (LVDS)	Pixel	2.0 megapixel
External display support	VGA and DisplayPort	Video resolution	320 x 240 - 1600 x 1200 (640 x 480 at 30 fps)
Video cards	MXM 3.0 Type B compliant cards with individual power budget of 35W and 65W	Diagonal viewing angle	66°
		Optical-Drive Storage	
Audio		Interface	SATA
Type	High-Definition 5.1 Surround Sound Audio	Туре	slot-load drive
Controller	IDT 92HD83	Drives supported	Blu-ray Disc™ combo, Blu-ray Disc Writer, or
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)	25555665.554	DVD+/-RW
Speaker	dual 8-ohms speakers in both the left and right speaker assembly	Hard-Drive Storage	
Internal speaker amplifier	up to 2 W per channel; up to 4 W total power	Interface	SATA
Internal microphone support	dual digital-array microphones in the display	Number of hard drives	one
	assembly	Type	standard portable and solid-state hard-drives
Volume controls	program menus and media control buttons	,	·
Audio connectors	two audio output/headphone connectors and one audio input/microphone connector		
	The audio input/microphone connector also functions as an output connector in a 5.1-channel surround-sound speaker setup		ce.

Display		Battery		
Type (WLED)	 15.6 inch HD+ (1600 x 900) 15.6 inch FHD (1920 x 1080) 	Type and dimensions 6-cell "smart" lithium ion (57 Whr)		
Refresh Rate Operating angle Pixel pitch Controls	60 Hz 0° (closed) to 140° 0.2550 mm brightness can be controlled through keyboard shortcuts	Depth Height Width Weight	53.8 mm (2.12 inches) 21.3 mm (0.84 inches) 213 mm (8.39 inches) 0.33 kg (0.72 lb)	
Keyboard (Backlit)		9-cell "smart" lithium ion (86 Depth Height	Whr) (optional) 53.8 mm (2.12 inches) 36.9 mm (1.45 inches)	
Layouts Backlight color	U.S. and Canada; Europe; Japan RGB; colors can be changed by invoking the AlienFX® application in the Alienware Command Center. For details, see your <i>Mobile Manual</i>	Width Weight Voltage	330 mm (12.99 inches) 0.5 kg (1.1 lb) 12.6 VDC	
Touch pad X/Y position resolution (graphics table mode)	240 cpi	Operating time	Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions	
Width Height	71.7-mm (2.8-inches) sensor-active area 34.0-mm (1.3-inches) rectangle	Life span (approximate)	300 discharge/charge cycles	

Battery		AC Adapter	
	Dimensions:		
0° to 50°C (32° to 122°F)	Height	25.4 mm (1.0 inches)	
-20° to 65°C (-4° to 149°F)	Width	154.7 mm (6.1 inches)	
CR-2032	Length	25.4 mm (1.0 inches)	
5.1. 2002	Weight (without AC power cord)	0.52 kg (1.14 lb)	
	Temperature range:		
150 W	Operating	0° to 35°C (32° to 95°F)	
100 - 240 VAC	Storage	–40° to 70°C (–40° to 158°F)	
2.5 A	Connector types:		
50 - 60 Hz	DC connector	3 pin, 7.4 mm plug	
7.7 A (continuous)	AC connector	3 pin - C13	
150 W			
19.5 VDC			
	-20° to 65°C (-4° to 149°F) CR-2032 150 W 100 - 240 VAC 2.5 A 50 - 60 Hz 7.7 A (continuous) 150 W	Dimensions: O° to 50°C (32° to 122°F) -20° to 65°C (-4° to 149°F) CR-2032 Weight (without AC power cord) Temperature range: Operating 100 - 240 VAC 2.5 A Connector types: 50 - 60 Hz 7.7 A (continuous) 150 W Dimensions: Height Wouth Length Weight (without AC power cord) Temperature range: Operating Storage Connector types: AC connector	

Computer Environment

Temperature range:

Operating O° to 35°C (32° to 95°F)

Storage -40° to 65°C (-40° to 149°F)

Relative humidity (maximum):

Operating 10% to 90% (non-condensing) Storage 10% to 95% (non-condensing)

Maximum vibration (using a random vibration spectrum that simulates user environment):

Operating 0.66 GRMS Storage 1.3 GRMS

Maximum shock (Measured with hard drive in operating status and a 2-ms half-sine pulse for operating. Also measured with hard drive in head-parked position and a 2-ms halfsine pluse for storage):

Operating 110 G Storage 160 G

Altitude (maximum):

Operating -15.2 to 3048 m (-50 to 10,000 ft) Storage -15.2 to 10,668 m (-50 to 35,000 ft)

Airborne contaminant level G2 or lower as defined by ISA-S71.04-1985