

# ALIENWARE® M17x COMPREHENSIVE SPECIFICATIONS

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**Model: P01E**

**MAY 2009**



## SPECIFICATIONS

### Dimensions

Height	51.31 mm to 53.59 mm (2.02 inches to 2.11 inches) - Front to Back
Width	405.89 mm (15.98 inches)
Depth	321.31 mm (12.65 inches)
Weight (with WUXGA LCD, single NVIDIA graphics card, and 9-cell battery)	5.3 kg (11.68 lbs) <b>NOTE:</b> The weight of your notebook will vary depending on the configuration ordered and the manufacturing variability.

### Processor and System Chipset

Processor	Intel® Quad-Core Intel® Dual-Core
L2 Cache	2 MB, 3 MB, 6 MB, or 12 MB
External bus frequency Front Side Bus (Intel)	<ul style="list-style-type: none"> <li>800 MHz (Intel Dual-Core)</li> <li>1066 MHz (Intel Quad-Core)</li> </ul>
System Chipset	NVIDIA® GeForce® 9400M G <b>NOTE:</b> Significant system memory may be used to support graphics. This will depend on system memory size and other factors.
SDRAM bus width	128 bit dual channel DDR3 supporting up to 1333 MHz
Processor address bus width	32 bits
Processor data width	64 bits

**Processor and System Chipset**

BIOS EPROM	16 Mbit
Graphics bus	Dual PCIe x 8 buses supporting single or dual x 8 PCIe MXM 3.0 GFX cards
PCI Bus	32 bits

**ExpressCard**

Controller	NVIDIA GeForce 9400M G
Connector	one ExpressCard slot (54 mm)
Cards supported	ExpressCard/34 (34 mm) ExpressCard/54 (54 mm) 1.5 V and 3.3 V
Connector size	26 pins

**IEEE 1394/Media Card**

IEEE 1394/Media Card controller	PCI Based Ricoh R5C833-T
IEEE 1394 Interface	compliant with standard IEEE1394a-2000 specification
Media Card Formats	8-in-1 Card Reader Support <ul style="list-style-type: none"> <li>▪ Secure Digital (SD) memory card</li> <li>▪ Secure Digital High Capacity (SDHC) card</li> <li>▪ Secure Digital Input/Output (SDIO) card</li> <li>▪ Multi Media Card (MMC)</li> <li>▪ Memory Stick</li> <li>▪ Memory Stick PRO</li> <li>▪ xD-Picture Card (type - M and type - H)</li> <li>▪ Hi Density-SD (SDHD)</li> </ul>

**Memory**

Connectors	two internally-accessible DDR3 SODIMM sockets
Capacities	2 GB to 8 GB
Memory types	1067 MHz, 1333 MHz (dual channel configurations)
Memory configurations possible	2 GB, 3 GB, 4 GB, 6 GB, and 8 GB

**Ports and Connectors**

IEEE 1394a	4-pin serial connector
Network adapter	RJ45 connector 10/100/1000
USB	four 4-pin USB 2.0-compliant connectors
eSATA	one 4-pin eSATA/USB combo connector
VGA	15-hole connector
HDMI	19-pin connector
DisplayPort	20-pin connector

**Communications**

Network adapter	10/100/1000 Ethernet LAN on system board
Wireless	<ul style="list-style-type: none"> <li>WLAN Mini-Card (half Mini-Card size slot)</li> <li>WPAN, Bluetooth card (full card size slot)</li> </ul>

**Modem:**

Type	External V.92 56K USB Modem
Controller	Hardware Modem
Interface	Universal Serial Bus (USB)

**Video**

Type	combination of chipset integrated Graphics and discrete MXM Graphics cards
LCD interface	Low Voltage Differential Signaling (LVDS)
External display support	VGA, HDMI 1. 2, DisplayPort
Graphics devices	<ul style="list-style-type: none"> <li>NVIDIA Geforce 9400M G (Integrated Graphics) with 256MB of video memory shared from system memory</li> <li>NVIDIA Geforce 280M SLI (Dual MXM Graphics cards) each with 1GB of dedicated video memory</li> <li>NVIDIA Geforce 260M single/SLI (Single or Dual MXM Graphics cards) each with 1GB of dedicated video memory</li> </ul>
Graphics card specification	MXM 3.0 Type B compliant cards with total power up to 75W each

**Audio**

Type	High-Definition 5.1 Surround Sound Audio
Controller	IDT 92HD73C HDA Codec
Stereo conversion	24-bit (analog-to-digital and digital-to-analog)
Internal Interface	High Definition Audio
Speaker	dual 8-ohms speakers in both the left and right speaker assembly
Internal speaker amplifier	up to 5 W per channel; up to 10 W total power
Internal microphone support	dual digital array microphones in the display assembly
Volume controls	program menus, media control buttons
Audio connectors	microphone connector input; three stereo headphone/speaker connectors capable of supporting 5.1 audio (see the Mobile Manual for more information on the number of audio connectors)

**Camera**

Pixel	2.0 megapixel
Video resolution	320 x 240 - 1600 x 1200 (640 x 480 at 30 fps)
Diagonal viewing angle	66°

**Optical Drive Storage**

Interface	SATA
Type	slot drive
Drives supported	DVD+/-RW Dual Layer Writer, Blu-ray Disc™ Reader/Writer

**Hard Drive Storage**

Hard drive interface	SATA
Number of hard drives	up to 2
Hard drive types	standard portable and solid state hard drives
RAID Support	RAID 0 or 1 modes

**Display**

Type (24-bit color, Dual bulb CCFL panels)	<ul style="list-style-type: none"> <li>17.0 inch WXGA+ (1440 x 900)</li> <li>17.0 inch WUXGA (1920 x 1200) TrueLife</li> </ul>
Refresh Rate	60 Hz
Operating angle	0° (closed) to 140°
Luminance (with ETED)	
Viewing angles	65/65/45/50 (L/R/U/D, min)

**Display**

<i>Pixel pitch:</i>	
CCFL WXGA+	0.2550 mm
CCFL WUXGA TrueLife	0.19125 mm
Controls	brightness can be controlled through keyboard shortcuts

**Keyboard (backlit)**

Backlight color	RGB; colors can be changed by invoking the Alienware Command Center Alien FX application (see the Alienware Command Center details in the Mobile Manual)
Layout	QWERTY/AZERTY/Kanji

**Touch pad**

X/Y position resolution (graphics table mode)	240 cpi
<i>Size:</i>	
Width	71.7-mm (2.8-inches) sensor-active area
Height	34.0-mm (1.3-inches) rectangle

**Battery**

Type	9-cell "smart" lithium ion (86 Whr)
Depth	52.3 mm (2.06 inches)
Height	41.54 mm (1.63 inches)
Width	292.7 mm (11.52 inches)
Weight	0.52 kg (1.14 lbs)
Voltage	11.1 VDC
Expected battery life	Approximately 2.5 hours battery life, if the computer is working in the integrated MCP79 Graphics Mode with high performance discrete GFX cards disabled. Press <Fn><F7> to switch between integrated graphics and discrete graphics.
	<b>NOTE:</b> Battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions.
Life span (approximate)	300 discharge/charge cycles
<b>Temperature range:</b>	
Operating	0° to 35°C (32° to 95°F)
Storage	-40° to 65°C (-40° to 149°F)
Coin-cell battery	CR-2032

**AC Adapter**

Type	240 W
Input voltage	100 - 240 VCA
Input current (maximum)	3.5 A
Input frequency	50 - 60 Hz
Output current	12.31 A (continuous)
Output power	240 W
Rated output voltage	19.5 VDC
<b>Dimensions:</b>	
Height	25.4 mm (1.0 inches)
Width	100 mm (3.94 inches)
Length	200 mm (7.87 inches)
<b>Weight without AC power cord:</b>	
240 W	0.85 kg (1.87 lbs)
<b>Temperature range:</b>	
Operating	0° to 40°C (32° to 104°F)
Storage	-40° to 70°C (-40° to 158°F)
<b>Connector types:</b>	
DC connector	3 pin, 7.4 mm plug
AC connector	3 pin - C13

## Computer Environment

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### *Temperature range:*

Operating	0° to 35°C (32° to 95°F)
Storage	−40° to 65°C (−40° to 149°F)

### *Relative humidity (maximum):*

Operating	10% to 90% (noncondensing)
Storage	10% to 95% (noncondensing)

### *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