



Specifications

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2013 - 10

Regulatory Model: P11E | Type: P11E002

Computer Model: M17x R4

Dimensions

Height (front and back)	44.5 mm (1.75 inches)
Width	410.0 mm (16.14 inches)
Depth	304.3 mm (11.98 inches)
Weight with 9-cell battery and optical drive (starting at)	4.26 kg (9.39 lb) NOTE: The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability

System information

Computer Model	M17x R4
Processor	Intel Core i7 (2nd and 3rd generation)
L2 cache	256 KB
L3 cache	up to 8 MB
Bus clock	100 Mhz
System chipset	Mobile Intel HM77 Express Chipset
SDRAM bus width	one or two 64-bit channels of DDR3 memory up to 1600 MHz
Processor address bus width	32 bits
Processor data width	64 bits
BIOS EPROM	32 Mbit
Graphics bus	PCIe x16 Gen2 and Gen3

Memory

Connectors	four internally-accessible DDR3 using JEDEC SODIMM sockets
Capacities	2 GB, 4 GB, and 8 GB
Memory type	up to 1600 MHz, unbuffered non-ECC, single-channel and dual-channel DDR3 configuration
Memory configurations supported	4 GB, 6 GB, 8 GB, 12 GB, 16 GB, 24 GB, and 32 GB

Hard drive

Interface	▪ SATA 2.0 (3 Gb/s) or SATA 3.0 (6 Gb/s) ▪ Solid-State Drive (SSD) ▪ mSATA
Number of hard drives	two
Hard drive	▪ two 2.5-inch SATA 2.0 (3Gb/s) or SATA 3.0 (6Gb/s) hard drives ▪ two solid-state drives

Communications

Wireless	▪ one half Mini-Card slot ▪ one full Mini-Card slot ▪ Bluetooth ▪ Wireless Display (optional) ▪ WirelessHD (optional)
Network adapter	▪ one RJ45 port ▪ 10/100/1000 Mbps Ethernet LAN on system board

Ports and connectors

Network adapter	one RJ45 port
USB	four 4-pin USB 3.0-compliant ports
eSATA/USB combo	one 7-pin/4-pin eSATA/USB 2.0-compliant combo port with PowerShare and Windows debugging
HDMI input	one 19-pin port
HDMI output	one 19-pin port
Mini DisplayPort	one 20-pin port
VGA	one 15 hole port
Audio	▪ one stereo headphones/speakers port ▪ one microphone/speakers port ▪ one headphones/microphone/speakers combo port
S/PDIF	one S/P DIF port
Media Card Reader	one 9-in-1 slot

Audio

Controller	Intel High-Definition 5.1 surround sound 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 array digital microphone in camera assembly
Volume controls	program menus and keyboard media control keys

Video

Video controller

- | | |
|------------|---|
| Integrated | <ul style="list-style-type: none">▪ Intel HD Graphics 3000▪ Intel HD Graphics 4000 |
| Discrete | <ul style="list-style-type: none">▪ NVIDIA GeForce GTX 660M▪ NVIDIA GeForce GTX 675M▪ AMD Radeon HD 7970M |

Video memory

- | | |
|--------------------------|---|
| Integrated | 512 MB dedicated video memory (for total system memory greater than 4 GB) |
| Discrete | 2 GB |
| External display support | HDMI 1.4, Mini DisplayPort 1.2, and Intel Wireless Display (optional) |

Media Card Reader

- | | |
|-----------------|---|
| Cards supported | <ul style="list-style-type: none">▪ Secure Digital (SD) memory card▪ Secure Digital Input/Output (SDIO) card▪ Secure Digital Extended Capacity (SDXC) card▪ MultiMedia Card (MMC)▪ MultiMedia Card plus (MMC+)▪ Memory Stick▪ Memory Stick PRO▪ xD-Picture Card (type - M and type - H)▪ Hi Density-SD (SDHD)▪ Hi Capacity-SD (SDHC) |
|-----------------|---|

Touchpad

X/Y position resolution (graphics table mode) 742 cpi/1166 cpi

Size

Height 54 mm (2.13 inches) sensor-active area

Width 100 mm (3.94 inches) rectangle

Backlit keyboard

Number of keys 101 (Korea, U.S., and Canada)
102 (Europe)
104 (Japan)

Backlight color RGB; colors can be changed by invoking the AlienFX software in the Alienware Command Center

Display

Type

- 17.3-inch FHD+ WLED
- 17.3-inch FHD TL 120 Hz WLED with NVIDIA 3D vision support
- 17.3-inch HD+ WLED

Maximum resolution 1920 x 1080

Dimensions

Height 215 mm (8.46 inches)

Width 382 mm (15.04 inches)

Diagonal 439 mm (17.28 inches)

Refresh rate 60 Hz

Operating angle 0° (closed) to 140°

Pixel pitch 0.2550 mm

Controls brightness can be controlled through keyboard shortcuts

Camera

Camera resolution 2.1 megapixel

Video resolution 1920 x 1080

Diagonal viewing angle 66 °

AC adapter connector

Type	240 W
Input voltage	100-240 VAC
Input current (maximum)	3.50 A
Input frequency	50-60 Hz
Output current	12.30 A (continuous)
Output power	250 W
Rated output voltage	19.5 VDC
Temperature range	
Operating	0° to 40°C (32° to 104°F)
Storage	−40° to 70°C (−40° to 158°F)
Connector types	
DC connector	3-pin, 7.4 mm plug
AC connector	3-pin – C13 (240 W)

Battery

9-cell “smart” lithium ion (90 Whr)

Height / Width	22 mm (0.87 inches) / 233 mm (9.17 inches)
Depth	90 mm (3.54 inches)
Weight	0.52 kg (1.14 lb)
Voltage	11.10 VDC
Operating time	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
Temperature range	
Operating	0° to 50°C (32° to 122°F)
Storage	−20° to 60°C (−4° to 140°F)
Coin-cell battery	CR-2032

Computer environment

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% (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 half-sine 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
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