

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) NOTE: 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"> 800 MHz (Intel Dual-Core) 1066 MHz (Intel Quad-Core) |
| System Chipset | NVIDIA® GeForce® 9400M G NOTE: 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"> ▪ 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 PRO ▪ xD-Picture Card (type - M and type - H) ▪ Hi Density-SD (SDHD) |

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"> WLAN Mini-Card (half Mini-Card size slot) WPAN, Bluetooth card (full card size slot) |

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"> NVIDIA Geforce 9400M G (Integrated Graphics) with 256MB of video memory shared from system memory NVIDIA Geforce 280M SLI (Dual MXM Graphics cards) each with 1GB of dedicated video memory NVIDIA Geforce 260M single/SLI (Single or Dual MXM Graphics cards) each with 1GB of dedicated video memory |
| 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"> 17.0 inch WXGA+ (1440 x 900) 17.0 inch WUXGA (1920 x 1200) TrueLife |
| 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. |
| | NOTE: 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 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 |
| Dimensions: | |
| Height | 25.4 mm (1.0 inches) |
| Width | 100 mm (3.94 inches) |
| Length | 200 mm (7.87 inches) |
| Weight without AC power cord: | |
| 240 W | 0.85 kg (1.87 lbs) |
| 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 |

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% (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 |