# Dell Precision M4600/M6600 Mobile Workstation

## Setup And Features Information

### About Warnings

⚠ **WARNING: A WARNING indicates a potential for property damage, personal injury, or death.**
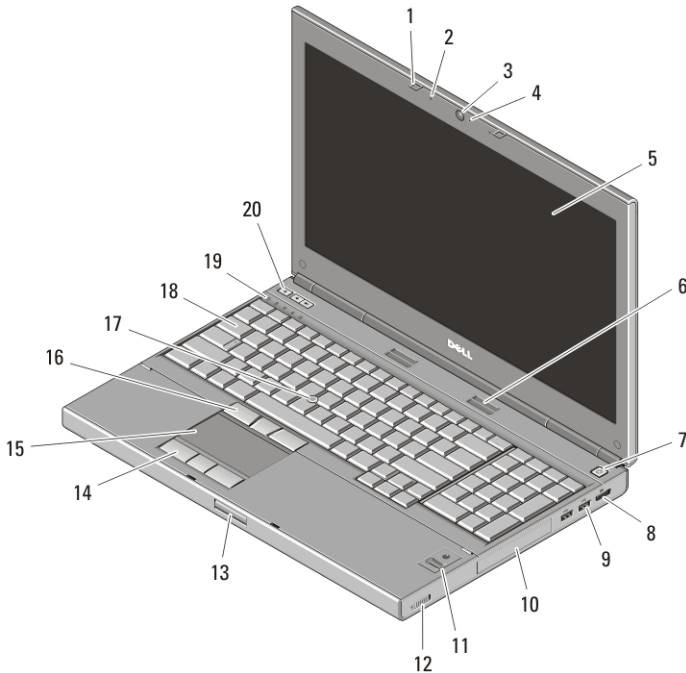
### M4600 — Front And Back View



**Figure 1. Front View**

1.  display latches (2)
2.  microphones (2)
3.  camera
4.  camera LED
5.  display
6.  speakers (2)
7.  power button
8.  DisplayPort connector

9. USB 3.0 connectors (2)
10. hard drive
11. fingerprint reader (optional)
12. wireless switch
13. display latch release button
14. touchpad buttons (3)
15. touchpad
16. track stick buttons (3)
17. track stick
18. keyboard
19. device status lights
20. volume control buttons



**Figure 2. Back View**

1. cooling vents
2. VGA connector
3. network connector
4. eSATA/USB 2.0 connector
5. HDMI connector
6. power connector
7. security cable slot
8. USB 2.0 connectors (2)
9. IEEE 1394 port (4-pin)
10. microphone connector
11. headphone connector
12. battery status light
13. power light
14. 8-in-1 card reader slot
15. optical drive eject button
16. optical drive
17. smart card reader slot
18. ExpressCard slot

## M6600 — Front And Back View
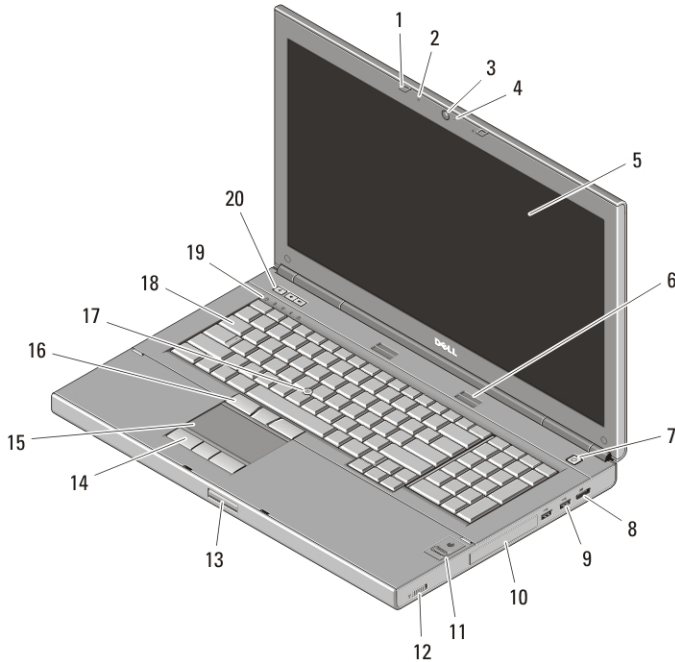


**Figure 3. Front View**

1. display latches (2)
2. microphones (2)
3. camera
4. camera LED
5. display
6. speakers (2)
7. power button
8. DisplayPort connector
9. USB 3.0 connectors (2)
10. hard drive
11. fingerprint reader (optional)
12. wireless switch
13. display latch release button
14. touchpad buttons (3)
15. touchpad
16. track stick buttons (3)
17. track stick
18. keyboard
19. device status lights
20. volume control buttons

Figure 4. Back View

1. cooling vents
2. network connector
3. VGA connector
4. HDMI connector
5. eSATA/USB 2.0 connector
6. power connector
7. security cable slot
8. USB 2.0 connectors (2)
9. IEEE 1394 port (6-pin, powered)

10. microphone connector
11. headphone connector
12. battery status light
13. power light
14. 8-in-1 card reader slot
15. optical drive eject button
16. optical drive
17. smart card reader slot
18. ExpressCard slot

## Quick Setup

⚠ WARNING: Before you begin any of the procedures in this section, read the safety information that shipped with your computer. For additional best practices information, see www.dell.com/regulatory_compliance.

⚠ WARNING: The AC adapter works with electrical outlets worldwide. However, power connectors and power strips vary among countries. Using an incompatible cable or improperly connecting the cable to the power strip or electrical outlet may cause fire or equipment damage.

⚠ CAUTION: When you disconnect the AC adapter cable from the computer, grasp the connector, not the cable itself, and pull firmly but gently to avoid damaging the cable. When you wrap the AC adapter cable, ensure that you follow the angle of the connector on the AC adapter to avoid damaging the cable.

**NOTE:** Some devices may not be included if you did not order them.

1. Connect the AC adapter to the AC adapter connector on the computer and to the electrical outlet.
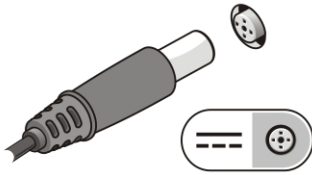
**Figure 5. AC Adapter**
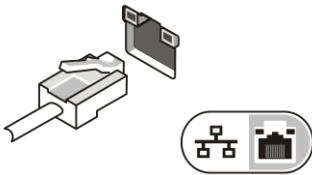
2. Connect the network cable (optional).

**Figure 6. Network Connector**

3. Connect USB devices, such as a mouse or keyboard (optional).
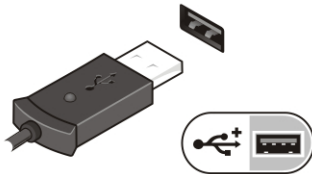
**Figure 7. USB Connector**

4. Connect IEEE 1394 devices, such as a 1394 hard drive (optional).
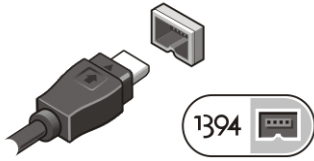
**Figure 8. 1394 Connector on M4600**
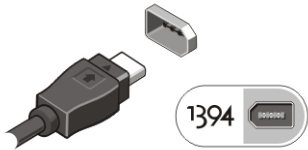


**Figure 9. 1394 Connector on M6600**

5. Open the computer display and press the power button to turn on the computer.



**Figure 10. Power Button**

**NOTE:** It is recommended that you turn on and shut down your computer at least once before you install any cards or connect the computer to a docking device or other external device, such as a printer.

## Specifications

**NOTE:** Offerings may vary by region. The following specifications are only those required by law to ship with your computer. For more information regarding the configuration of your computer, click **Start → Help and Support** and select the option to view information about your computer.

| System Information | |
|---|---|
| Chipset | Mobile Intel QM67 Express Chipset |
| Processor | • Intel Core i5 and i7 Dual Core<br>• Intel Core i7 Quad Extreme<br>• Intel Core i7 Quad Core |

## Video

| | |
|---|---|
| Video type | discrete |
| Data bus | integrated video |
| Video controller and memory | |
| M4600 | • AMD FirePro M5950 Mobility Pro Graphics with 1 GB GDDR5<br>• NVIDIA Quadro 1000M with 2 GB GDDR3<br>• NVIDIA Quadro 2000M with 2 GB GDDR3 |
| M6600 | • AMD FirePro M8900 Mobility Pro Graphics with 2 GB GDDR5<br>• NVIDIA Quadro 3000M with 2 GB GDDR5<br>• NVIDIA Quadro 4000M with 2 GB GDDR5<br>• NVIDIA Quadro 5010M with 4GB GDDR5 |

## Memory

| | |
|---|---|
| Memory connectors | |
| Intel Core i5 and i7 Dual Core processors | two DIMM slots |
| Intel Core i7 Quad Core and i7 Quad Extreme processors | four DIMM slots |
| Memory capacity | 1 GB, 2 GB, 4 GB, and 8 GB |
| Memory type | DDR3 1333 MHz and 1600 MHz (faster UI) |
| Minimum memory | 2 GB |
| Maximum memory | |
| Intel Core i5 and i7 Dual Core processors | 16 GB |
| Intel Core i7 Quad Core and i7 Quad Extreme processors | 32 GB |

## Battery

| | |
|---|---|
| Type | lithium ion |

Dimensions (6-cell / 9-cell / 9-cell long cycle life (LCL)):

## Battery

> **NOTE:** The Dell Precision M6600 Mobile Workstation only supports a 9–cell battery.

| | |
|---|---|
| Depth | 80 mm (3.14 inches) |
| Height | 190 mm (7.48 inches) |
| Width | 20 mm (0.78 inches) |
| Weight | |
| | 365 g (0.80 lb) (6–cell) |
| | 500 g (1.10 lb) (9–cell / 9–cell LCL) |
| Voltage | 11.10 V |
| Temperature range: | |
| Operating | 0 °C to 35 °C (32 °F to 95 °F) |
| Non-operating | –40 °C to 65 °C (–40 °F to 149 °F) |
| Coin-cell battery | 3 V CR2032 lithium ion cell |

| AC Adapter | M4600 | M6600 |
|---|---|---|
| Input voltage | 100 VAC to 240 VAC | 100 VAC to 240 VAC |
| Input current (maximum) | 2.50 A | 3.50 A |
| Input frequency | 50 Hz to 60 Hz | 50 Hz to 60 Hz |
| Output power | 180 W | 240 W |
| Output current | 9.23 A | 12.30 A |
| Rated output voltage | 19.50 VDC | 19.50 VDC |
| Dimensions: | 180 W | 240 W |
| Height | 30 mm (1.18 inches) | 25.40 mm (1 inch) |
| Width | 155 mm (6.10 inches) | 200 mm (7.87 inches) |
| Depth | 76 mm (2.99 inches) | 100 mm (3.93 inches) |
| Temperature range: | | |
| Operating | 0 °C to 40 °C (32 °F to 104 °F) | |

| AC Adapter | M4600 | M6600 |
|---|---|---|
| Non Operating | –40 °C to 65 °C (–40 °F to 149 °F) | |

| Contactless Smart Card | |
|---|---|
| Supported Smart Cards and Technologies | ISO14443A — 160 kbps, 212 kbps, 424 kbps, and 848 kbps |
| | ISO14443B — 160 kbps, 212 kbps, 424 kbps, and 848 kbps |
| | ISO15693 |
| | HID iClass |
| | FIPS201 |
| | NXP Desfire |

| Physical | M4600 | M6600 |
|---|---|---|
| Height | 36.5 mm (1.44 inches) | 37.20 mm (1.46 inches) |
| Width | 376 mm (14.80 inches) | 416.70 mm (16.41 inches) |
| Depth | 256 mm (10.08 inches) | 270.60 mm (10.65 inches) |
| Weight (Minimum) | 2.87 kg (6.33 lb with 6-cell battery and airbay) | 3.42 kg (7.53 lb with 6–cell battery and airbay) |

| Environmental | |
|---|---|
| Temperature: | |
| Operating | 0 °C to 35 °C (32 °F to 95 °F) |
| Storage | –40 °C to 65 °C (–40 °F to 149 °F) |
| Relative humidity (maximum): | |
| Operating | 10 % to 90 % (noncondensing) |
| Storage | 5 % to 95% (noncondensing) |
| Airborne contaminant level | G2 or lower as defined by ISA-S71.04–1985 |
| Altitude (maximum): | |
| Operating | –15.2 m to 3048 m (–50 ft to 10,000 ft) |

| Environmental | |
| --- | --- |
| Non-operating | –15.2 m to 10,668 m (–50 ft to 35,000 ft) |

## Finding More Information and Resources

See the safety and regulatory documents that shipped with your computer and the regulatory compliance website at **www.dell.com/ regulatory_complianc**e for more information on:

- Safety best practices
- Regulatory certification
- Ergonomics

See **www.dell.com** for additional information on:

- Warranty
- Terms and Conditions (U.S. only)
- End User License Agreement

**Information in this publication is subject to change without notice.**

**© 2010 Dell Inc. All rights reserved.**

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

Trademarks used in this text: Dell™, the DELL logo, Dell Precision™, Precision ON™, ExpressCharge™, Latitude™, Latitude ON™, OptiPlex™, Vostro™, and Wi-Fi Catcher™ are trademarks of Dell Inc. Intel®, Pentium®, Xeon®, Core™, Atom™, Centrino®, and Celeron® are registered trademarks or trademarks of Intel Corporation in the U.S. and other countries. AMD® is a registered trademark and AMD Opteron™, AMD Phenom™, AMD Sempron™, AMD Athlon™, ATI Radeon™, and ATI FirePro™ are trademarks of Advanced Micro Devices, Inc. Microsoft®, Windows®, MS-DOS®, Windows Vista®, the Windows Vista start button, and Office Outlook® are either trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries. Blu-ray Disc™ is a trademark owned by the Blu-ray Disc Association (BDA) and licensed for use on discs and players. The Bluetooth® word mark is a registered trademark and owned by the Bluetooth® SIG, Inc. and any use of such mark by Dell Inc. is under license. Wi-Fi® is a registered trademark of Wireless Ethernet Compatibility Alliance, Inc.

Other trademarks and trade names may be used in this publication 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.

Free Manuals Download Website

[http://myh66.com](http://myh66.com)

[http://usermanuals.us](http://usermanuals.us)

[http://www.somanuals.com](http://www.somanuals.com)

[http://www.4manuals.cc](http://www.4manuals.cc)

[http://www.manual-lib.com](http://www.manual-lib.com)

[http://www.404manual.com](http://www.404manual.com)

[http://www.luxmanual.com](http://www.luxmanual.com)

[http://aubethermostatmanual.com](http://aubethermostatmanual.com)

Golf course search by state

[http://golfingnear.com](http://golfingnear.com)

Email search by domain

[http://emailbydomain.com](http://emailbydomain.com)

Auto manuals search

[http://auto.somanuals.com](http://auto.somanuals.com)

TV manuals search

[http://tv.somanuals.com](http://tv.somanuals.com)