



INSPIRON 14R/M421R/15R/M521R

Specifications

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2013 - 10 A01

Regulatory Model: P33G/P25F | Type: P33G001/P33G002/P25F001/P25F002

Computer Model: Inspiron 5420/5425/5520/5525/7420/7520

| Dimensions | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|---------------------------------|---|--|
| Height (front and back) | 28.88 mm to 31.60 mm (1.14 inches to 1.24 inches) | 30.03 mm to 34.10 mm (1.18 inches to 1.34 inches) |
| Width | 347.00 mm (13.66 inches) | 378.00 mm (14.88 inches) |
| Depth | 240.00 mm (9.45 inches) | 252.00 mm (9.92 inches) |
| Weight (with 6-cell battery) | 2.40 kg (5.30 lb) NOTE: The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability. | 2.78 kg (6.13 lb) NOTE: The weight of your laptop will vary depending on the configuration ordered and the manufacturing variability. |

| System Information | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|--------------------|---|---|
| Processor | <ul style="list-style-type: none"> • Intel Pentium dual core • Intel Core i3 • Intel Core i5 • Intel Core i7 • AMD A4-4300M • AMD A6-4400M • AMD A8-4500M • AMD A10-4600M | <ul style="list-style-type: none"> • Intel Pentium dual core • Intel Core i3 • Intel Core i5 • Intel Core i7 • AMD A4-4300M • AMD A6-4400M • AMD A8-4500M • AMD A10-4600M |
| System chipset | <ul style="list-style-type: none"> • Intel HM77 Express chipset • AMD A70M FCH chipset | <ul style="list-style-type: none"> • Intel HM77 Express chipset • AMD A70M FCH chipset |

| Memory | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|---------------------------------|---|---|
| Connectors | two internally-accessible DDR3 SODIMM sockets | two internally-accessible DDR3 SODIMM sockets |
| Capacities | 2 GB and 4 GB | 2 GB and 4 GB |
| Minimum memory | 2 GB | 2 GB |
| Maximum memory | 8 GB | 8 GB |
| Memory type | 1600 MHz DDR3 SODIMM | 1600 MHz DDR3 SODIMM |
| Memory configurations supported | 2 GB, 4 GB, 6 GB, and 8 GB | 2 GB, 4 GB, 6 GB, and 8 GB |

| Communications | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|-----------------------|--|--|
| Modem (optional) | external V.92 56 K USB modem | external V.92 56 K USB modem |
| Network adapter | 10/100 Ethernet LAN on system board (Inspiron 14R-5420, Inspiron M421R-5425) 10/100/1000 Ethernet LAN on system board (Inspiron 14R-7420) | 10/100 Ethernet LAN on system board (Inspiron 15R-5520, Inspiron M521R-5525) 10/100/1000 Ethernet LAN on system board (Inspiron 15R-7520) |
| Wireless | WLAN, WiMax, Wi-Fi abgn/bgn, Wi-Di (optional), and Bluetooth wireless technology | WLAN, WiMax, Wi-Fi abgn/bgn, Wi-Di (optional), and Bluetooth wireless technology |

Audio

Inspiron 14R-5420/7420/ M421R-5425

Inspiron 15R-5520/7520/ M521R-5525

| | | |
|-----------------------------|---|---|
| Controller | Conexant CX20672-21Z | Conexant CX20672-21Z |
| Speaker | 2 W | 2 W |
| Internal microphone support | single digital microphone in camera assembly | single digital microphone in camera assembly |
| Volume controls | program menus and keyboard media control keys | program menus and keyboard media control keys |

Video

Inspiron 14R-5420/7420/ M421R-5425

Inspiron 15R-5520/7520/ M521R-5525

Video type

Integrated

Intel HD graphics (Inspiron 14R-5420)

- Intel HD graphics (Inspiron 15R-5520/7520)
- AMD Radeon HD 7420G (Inspiron M521R-5525)
- AMD Radeon HD 7520G (Inspiron M521R-5525)
- AMD Radeon HD 7640G (Inspiron M521R-5525)
- AMD Radeon HD 7660G (Inspiron M521R-5525)

Discrete

- NVIDIA GeForce GT630M (Inspiron 14R-5420)
- NVIDIA GeForce GT640M (Inspiron 14R-7420)
- AMD Radeon HD 7650M (Inspiron M421R-5425)

- AMD Radeon HD 7670M (Inspiron 15R-5520)
- AMD Radeon HD 7730M (Inspiron 15R-7520)
- AMD Radeon HD 7650M (Inspiron M521R-5525)

| Video | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|---------------------------------|---|---|
| Video memory | | |
| Integrated | Shared | Shared |
| Discrete | 1 GB (Inspiron 14R-5420, Inspiron M421R-5425) 2 GB (Inspiron 14R-7420) | 1 GB (Inspiron 15R-5520, Inspiron M521R-5525) 2 GB (Inspiron 15R-7520) |
| Ports and Connectors | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
| Audio | one microphone-in port one stereo headphone/ microphone combo port one digital microphone | one microphone-in port one stereo headphone/ speaker port one digital microphone |
| Mini-Card | one half-size Mini-Card slot one full-size Mini-Card slot (optional) (Inspiron 14R-5420/7420) | one half-size Mini-Card slot one full-size Mini-Card slot (optional) |
| HDMI | one 19-pin port | one 19-pin port |
| Network adapter | one RJ45 port | one RJ45 port |
| USB | three 9-pin USB 3.0-compliant ports one 9-pin USB 3.0-compliant port with PowerShare and Windows debugging | three 9-pin USB 3.0-compliant ports one 9-pin USB 3.0-compliant port with PowerShare and Windows debugging |
| Media Card Reader | one 8-in-1 slot | one 8-in-1 slot |
| VGA | one 15-hole port | one 15-hole port |
| mSATA (optional) | one mSATA port that supports up to 32 GB (Inspiron 14R-5420/7420) | one mSATA port that supports up to 32 GB (Inspiron 15R- 5520/7520) |

| Battery | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|------------------------------|---|---|
| 6-cell "smart" lithium ion | | |
| Height | 20 mm (0.79 inches) | 20 mm (0.79 inches) |
| Width | 208 mm (8.19 inches) | 208 mm (8.19 inches) |
| Depth | 51 mm (2.00 inches) | 51 mm (2.00 inches) |
| Weight | 0.33 kg (0.73 lb) | 0.33 kg (0.73 lb) |
| Voltage | 11.1 VDC | 11.1 VDC |
| Charge time (approximate) | 4 hours (when the computer is turned off) | 4 hours (when the computer is turned off) |
| Operating time | battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions | battery operating time varies depending on operating conditions and can be significantly reduced under certain power-intensive conditions |
| Coin-cell battery | CR-2032 | CR-2032 |

| Power adapter | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|-------------------------|--|---|
| Type | 65 W (Inspiron 14R-5420/7420) 90 W (Inspiron 14R-5420/7420, Inspiron M421R-5425) | 65 W/90 W |
| Input voltage | 100-240 VAC | 100–240 VAC |
| Input current (maximum) | 1.50 A/1.60 A/2.50 A (Inspiron M421R-5425) 1.50 A/1.60 A/1.70 A/ 2.50 A (Inspiron 14R-5420/7420) | 1.50 A/1.60 A/ 1.70 A/2.50 A |
| Input frequency | 50-60 Hz | 50–60 Hz |

| Power adapter | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|-----------------------------|---|---|
| Output current (continuous) | 3.34 A (Inspiron 14R-5420/7420) 4.62 A (Inspiron 14R-5420/7420, Inspiron M421R-5425) | 3.34 A/4.62 A |
| Output power | 65 W (Inspiron 14R-5420/7420) 90 W (Inspiron 14R-5420/7420, Inspiron M421R-5425) | 65 W/90 W |
| Rated output voltage | 19.50 +/- 1 VDC | 19.50 +/-1 VDC |
| Temperature range | | |
| Operating | 0 °C to 40 °C (32 °F to 104 °F) | 0 °C to 40 °C (32 °F to 104 °F) |
| Storage | -40 °C to 70 °C (-40 °F to 158 °F) | -40 °C to 70 °C (-40 °F to 158 °F) |

Media-card reader

| | |
|-----------------|---|
| Cards supported | <ul style="list-style-type: none"> • Secure Digital (SD) memory card • Secure Digital High Capacity (SDHC) • Secure Digital Extended Capacity (SDXC) with ultra high-speed • Memory Stick • Memory Stick PRO (MS-PRO) • Memory Stick Extended Capacity (MSXC) • MultiMedia Card (MMC) • MultiMedia Card plus (MMC+) |
|-----------------|---|

Touchpad

**Inspiron
14R-5420/7420/
M421R-5425**

**Inspiron
15R-5520/7520/
M521R-5525**

X/Y position resolution
(graphics table mode)

240 cpi

240 cpi

Size

Height

52.7 mm (2.07 inches)
sensor-active area

52.7 mm (2.07 inches)
sensor-active area

Width

97.0 mm (3.82 inches)
rectangle

97.0 mm (3.82 inches)
rectangle

Keyboard (backlit)

**Inspiron
14R-5420/7420/
M421R-5425**

**Inspiron
15R-5520/7520/
M521R-5525**

Number of keys

102 (U.S.)
103 (United Kingdom)
106 (Japan)
105 (Brazil)

102 (U.S.)
103 (United Kingdom)
106 (Japan)
105 (Brazil)

| Display | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
|----------------------------|---|--|
| Type | 14.0" HD WLED TrueLife (1366 x 768) 14.0" HD+ WLED TrueLife (optional) (1600 x 900) (Inspiron 14R-5420/7420) | 15.6" HD WLED TrueLife (1366 x 768) 15.6" FHD WLED, AG (optional) (1920 x 1080) |
| Maximum resolution | 1600 x 900 (Inspiron 14R-5420/7420) 1366 x 768 (Inspiron M421R-5425) | 1920 x 1080 |
| Dimensions | | |
| Height | 173.95 mm (6.85 inches) | 193.54 mm (7.62 inches) |
| Width | 309.40 mm (12.18 inches) | 344.23 mm (13.55 inches) |
| Diagonal | 355.60 mm (14.00 inches) | 396.42 mm (15.60 inches) |
| Refresh rate | 60 Hz | 60 Hz |
| Operating angle | 0 degree (closed) to 135 degrees | 0 degree (closed) to 135 degrees |
| Horizontal viewing angle | 40/40 | 40/40 |
| Vertical viewing angle | 15/30 (H/L) | 15/30 (H/L) |
| Pixel pitch | 0.226 mm x 0.226 mm | 0.252 mm x 0.252 mm |
| Camera | Inspiron 14R-5420/7420/ M421R-5425 | Inspiron 15R-5520/7520/ M521R-5525 |
| Camera resolution | 720p HD; 1280 x 720 pixels | 720p HD; 1280 x 720 pixels |
| Video resolution (maximum) | 1280 x 720 pixels | 1280 x 720 pixels |
| Diagonal viewing angle | 60 degrees | 60 degrees |

Computer environment**Inspiron
14R-5420/7420/
M421R-5425****Inspiron
15R-5520/7520/
M521R-5525**

Temperature range

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

Relative humidity (maximum)

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

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

| | | |
|-----------|-----------|-----------|
| Operating | 0.66 GRMS | 0.66 GRMS |
| Storage | 1.3 GRMS | 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 pulse for storage)

| | | |
|-----------|-------|-------|
| Operating | 110 G | 110 G |
| Storage | 160 G | 160 G |

Altitude (maximum)

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

Airborne contaminant level

| | |
|-------------------------------------|-------------------------------------|
| G1 as defined by ISA-S71.04-1985 | G1 as defined by ISA-S71.04-1985 |
|-------------------------------------|-------------------------------------|