

# Latitude 5420

## Setup and Specifications

## Notes, cautions, and warnings

 **NOTE:** A NOTE indicates important information that helps you make better use of your product.

 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

 **WARNING:** A WARNING indicates a potential for property damage, personal injury, or death.

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# Set up your Latitude 5420

**NOTE:** The images in this document may differ from your computer depending on the configuration you ordered.

1. Connect the power adapter and press the power button.



**NOTE:** The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.


2. Finish Windows setup.

Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:



- Connect to a network for Windows updates.
  - NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- If connected to the Internet, sign in with or create a Microsoft account. If not connected to the Internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

3. Locate and use Dell apps from the Windows Start menu—Recommended.

**Table 1. Locate Dell apps**

| Resources   | Description  |
|---|--|
|  | <p><b>SupportAssist</b></p> <p>Proactively checks the health of your computer's hardware and software. The SupportAssist OS Recovery tool troubleshoots issues with the operating system. For more information, see the SupportAssist documentation at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p> <p><b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p> |

**Table 1. Locate Dell apps (continued)**

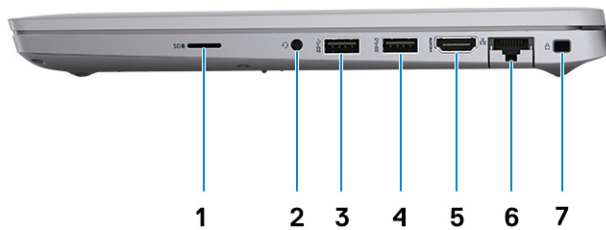
| Resources   | Description   |
|---|---|
|  | <p><b>Dell Update</b></p> <p>Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the knowledge base article <a href="https://www.dell.com/support">SLN305843</a> at <a href="https://www.dell.com/support">www.dell.com/support</a>.</p>                |
|  | <p><b>Dell Digital Delivery</b></p> <p>Download software applications, which are purchased but not pre-installed on your computer. For more information about using Dell Digital Delivery, see the knowledge base article <a href="https://www.dell.com/support">153764</a> at <a href="https://www.dell.com/support">www.dell.com/support</a>.</p> |

## Views of Latitude 5420

### Topics:

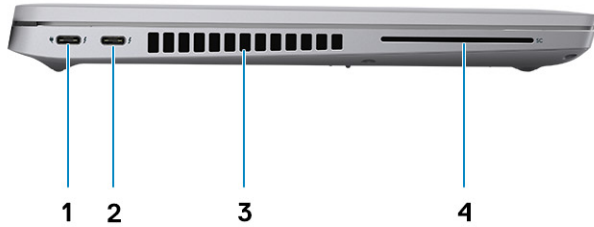
- [Right](#)
- [Left](#)
- [Palm rest](#)
- [Front](#)
- [Bottom](#)
- [Back](#)
- [System board layout](#)
- [Keyboard shortcuts](#)
- [Battery charge and status LED](#)

## Right



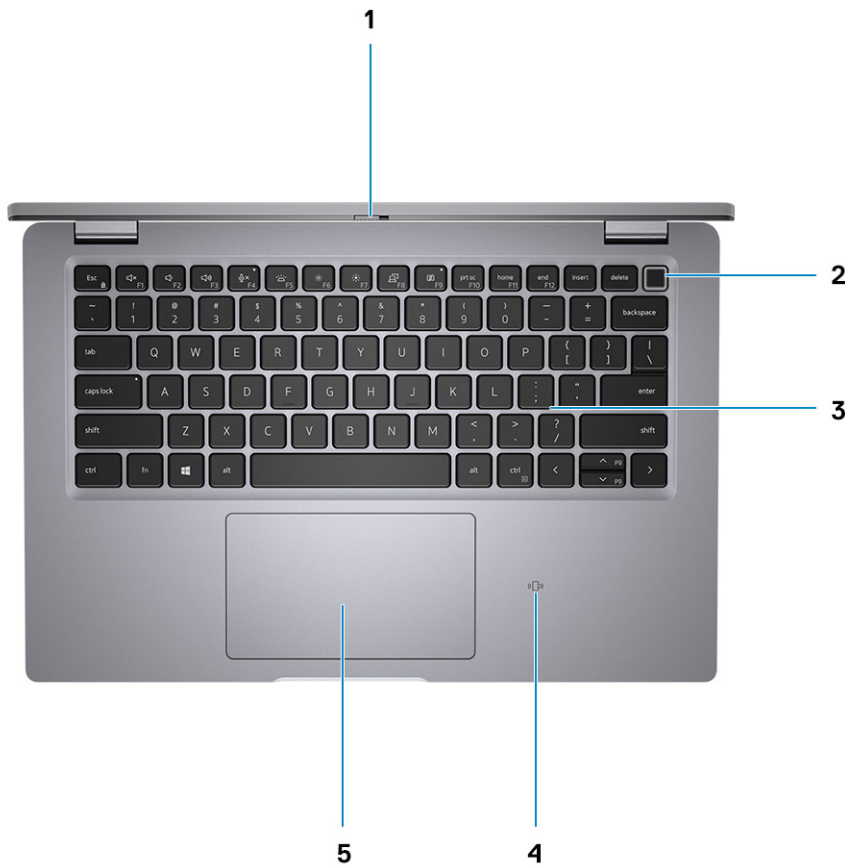
1. microSD-card slot
2. Universal audio port
3. USB 3.2 Gen 1 port
4. USB 3.2 Gen 1 port with PowerShare
5. HDMI 2.0 port
6. RJ45 Ethernet port
7. Wedge-shaped lock slot

# Left



- 1. Thunderbolt 4 port with DisplayPort Alt Mode/USB4/Power Delivery
- 2. Thunderbolt 4 port with DisplayPort Alt Mode/USB4/Power Delivery
- 3. Air vents
- 4. Smart card reader slot (optional)

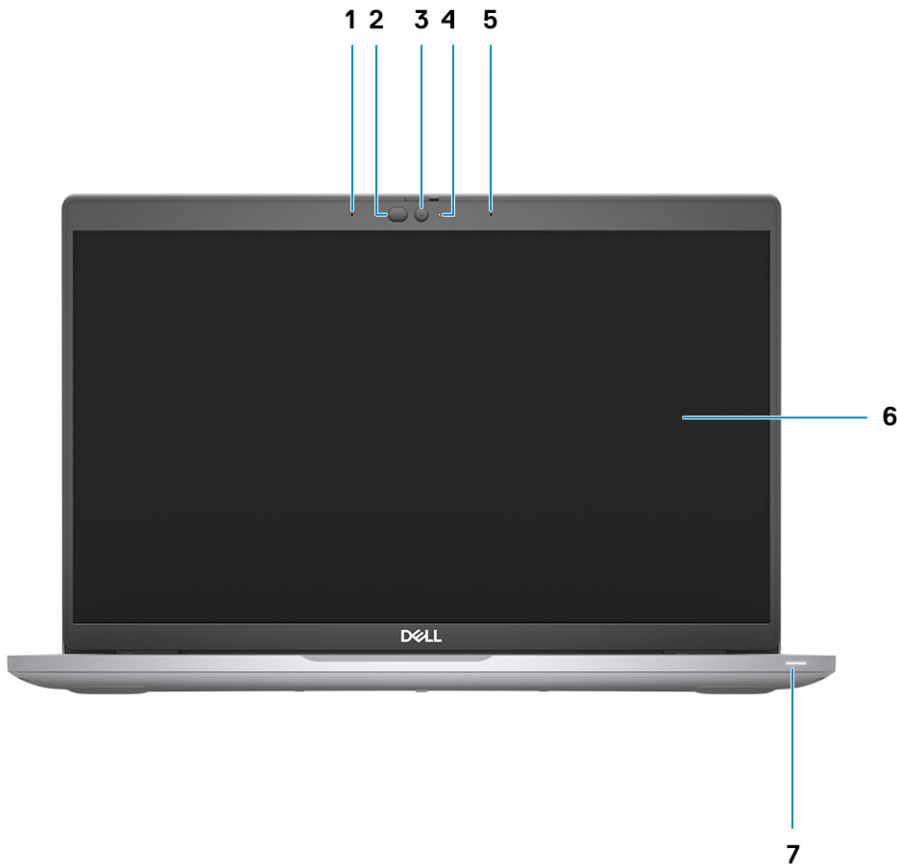
# Palm rest



1. Privacy shutter
3. Keyboard
5. Clickpad

2. Power button (with optional fingerprint reader)
4. NFC/Contactless smart card reader—(optional)

## Front

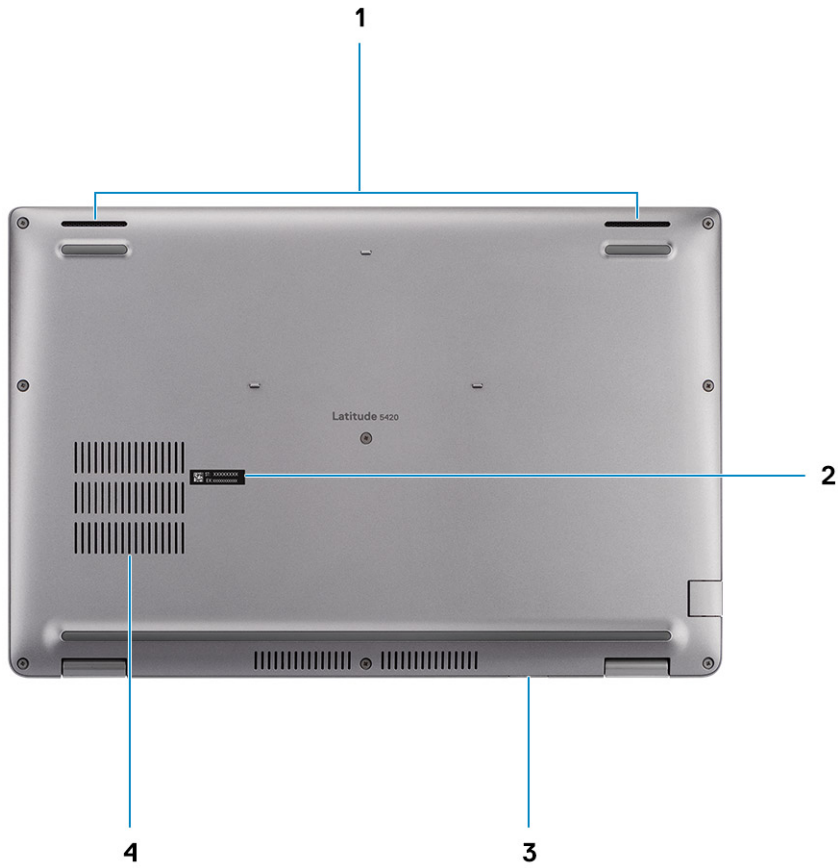


1. Dual-array microphones
3. Camera (FHD RGB IR/HD RGB IR/HD RGB)
5. Dual-array microphones
7. Battery diagnostic LED

2. IR emitter/Ambient Light Sensor (ALS)—(optional)
4. Camera status LED
6. Display panel



# Bottom



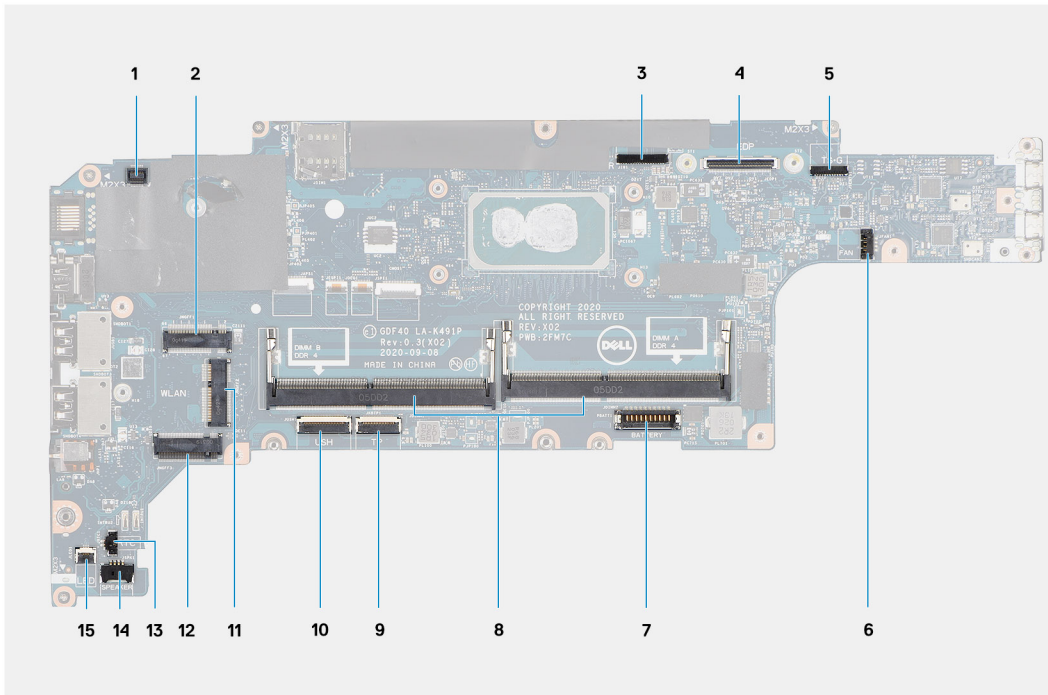
- 1. Speakers
- 2. Service tag label
- 3. MicroSim-card slot (optional)
- 4. Air vent

# Back



- 1. SIM card tray

# System board layout



1. Fingerprint reader connector
2. WWAN connector
3. Camera/IR cable connector
4. eDP/display cable connector
5. Touch and sensor cable connector
6. System fan connector
7. Battery cable connector
8. Memory modules
9. Clickpad cable connector
10. USH board connector
11. WLAN connector
12. Solid-state drive slot
13. Coin-cell battery cable connector
14. Speaker cable connector
15. Battery LED cable connector


## Keyboard shortcuts

**NOTE:** Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for shortcuts remain the same across all language configurations.

**Table 2. List of keyboard shortcuts**

| Keys     | Primary Behavior | Secondary Behavior (Fn + Key) |
|----------|------------------|-------------------------------|
| Fn + Esc | Escape           | Toggle Fn-key lock            |
| Fn + F1  | Mute audio       | F1 behavior                   |
| Fn + F2  | Decrease volume  | F2 behavior                   |
| Fn + F3  | Increase volume  | F3 behavior                   |

**Table 2. List of keyboard shortcuts (continued)**

| Keys             | Primary Behavior  | Secondary Behavior (Fn + Key) |
|------------------|---|-------------------------------|
| Fn + F4          | Mic Mute  | F4 behavior                   |
| Fn + F5          | Keyboard backlight<br> <b>NOTE:</b> Not applicable for non-backlight keyboard. | F5 behavior                   |
| Fn + F6          | Decrease screen brightness  | F6 behavior                   |
| Fn + F7          | Increase screen brightness  | F7 behavior                   |
| Fn + F8          | Switch to external display  | F8 behavior                   |
| Fn + F9          | Disable camera  | F9 behavior                   |
| Fn + F10         | Print Screen  | F10 behavior                  |
| Fn + F11         | Home  | F11 behavior                  |
| Fn + F12         | End   | F12 behavior                  |
| Fn + Left Arrow  | Left Arrow  | Home                          |
| Fn + Right Arrow | Right Arrow   | End                           |
| Fn + Right Ctrl  | Emulates right click  | --                            |
| Fn + P           | SafeScreen (e-Privacy)  | --                            |

## Battery charge and status LED

**Table 3. Battery charge and status LED Indicator**

| Power Source | LED Behavior             | computer Power State | Battery Charge Level |
|--------------|--------------------------|----------------------|----------------------|
| AC Adapter   | Off                      | S0 - S5              | Fully Charged        |
| AC Adapter   | Solid White              | S0 - S5              | < Fully Charged      |
| Battery      | Off                      | S0 - S5              | 11-100%              |
| Battery      | Solid Amber (590+/-3 nm) | S0 - S5              | < 10%                |

- S0 (ON) - Computer is turned on.
- S4 (Hibernate) - The computer consumes the least power compared to all other sleep states. The computer is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) - The computer is in a shutdown state.


# Specifications of Latitude 5420

## Topics:

- Dimensions and weight
- Processors
- Chipset
- Operating system
- Memory
- Ports and connectors
- Communications
- Audio
- Storage
- Media-card reader
- Keyboard
- Camera
- Clickpad
- Power adapter
- Battery
- Display
- Fingerprint reader (optional)
- Video
- Multiple display support matrix
- Hardware security
- Operating and storage environment
- Sensor and control

## Dimensions and weight

**Table 4. Dimensions and weight**

| Description      | Values   |
|------------------|--|
| Height:          |  |
| Front            | 0.76 in. (19.30 mm)  |
| Rear             | 0.82 in. (20.90 mm)  |
| Width            | 12.65 in. (321.35 mm)  |
| Depth            | 8.35 in. (212.00 mm)   |
| Weight (maximum) | 3.03 lb (1.37 kg)  |
|                  |  <b>NOTE:</b> The weight of your computer depends on the configuration ordered and the manufacturing variability. |

# Processors

**NOTE:** Processor numbers are not a measure of performance. Processor availability subject to change and may vary by region/country.

**Table 5. Processors**

| Processors                                       | Wattage | Core count | Thread count | Speed                | Cache | Integrated graphics                |
|--|---------|------------|--------------|----------------------|-------|------------------------------------|
| 10 <sup>th</sup> Generation Intel Core i5-10310U | 15 W    | 4          | 8            | 1.70 GHz to 4.40 GHz | 6 MB  | Intel UHD Graphics                 |
| 11 <sup>th</sup> Generation Intel Core i3-1125G4 | 17.50 W | 4          | 8            | 2.00 GHz to 3.70 GHz | 8 MB  | Intel UHD Graphics                 |
| 11 <sup>th</sup> Generation Intel Core i5-1135G7 | 17.50 W | 4          | 8            | 2.40 GHz to 4.20 GHz | 8 MB  | Intel Iris X <sup>e</sup> Graphics |
| 11 <sup>th</sup> Generation Intel Core i5-1145G7 | 17.50 W | 4          | 8            | 2.60 GHz to 4.40 GHz | 8 MB  | Intel Iris X <sup>e</sup> Graphics |
| 11 <sup>th</sup> Generation Intel Core i7-1165G7 | 17.50 W | 4          | 8            | 2.80 GHz to 4.70 GHz | 12 MB | Intel Iris X <sup>e</sup> Graphics |
| 11 <sup>th</sup> Generation Intel Core i7-1185G7 | 17.50 W | 4          | 8            | 3.00 GHz to 4.80 GHz | 12 MB | Intel Iris X <sup>e</sup> Graphics |

# Chipset

The following table lists the details of the chipset supported by your Latitude 5320.

**Table 6. Chipset**

| Description    | Values   |
|----------------|--|
| Chipset        | Intel PCH-LP   |
| Processor      | <ul style="list-style-type: none"> <li>10<sup>th</sup> Generation Intel Core i5 processors</li> <li>11<sup>th</sup> Generation Intel Core i3/i5/i7 processors</li> </ul> |
| DRAM bus width | 64-bit   |
| Flash EPROM    | 32 MB  |
| PCIe bus       | Up to Gen 3  |

# Operating system

Your Latitude 5420 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Home National Academic, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Windows 10 Pro Education, 64-bit

- Windows 10 Enterprise, 64-bit
- Ubuntu 20.04 LTS, 64-bit

## Memory

The following table lists the memory specifications of your Latitude 5420:

**Table 7. Memory specifications**

| Description              | Values  |
|--------------------------|---|
| Slots                    | Two SO-DIMM slots   |
| Type                     | DDR4, Dual-channel  |
| Speed                    | 3200 MHz  |
| Maximum memory           | 64 GB   |
| Minimum memory           | 4 GB  |
| Memory size per slot     | 4 GB, 8 GB, 16 GB, 32 GB  |
| Configurations supported | <ul style="list-style-type: none"> <li>• 4 GB, 1 x 4 GB, DDR4, 3200 MHz</li> <li>• 8 GB, 2 x 4 GB, DDR4, 3200 MHz</li> <li>• 8 GB, 1 x 8 GB, DDR4, 3200 MHz</li> <li>• 16 GB, 2 x 8 GB, DDR4, 3200 MHz</li> <li>• 16 GB, 1 x 16 GB, DDR4, 3200 MHz</li> <li>• 32 GB, 2 x 16 GB, DDR4, 3200 MHz</li> <li>• 64 GB, 2 x 32 GB, DDR4, 3200 MHz</li> </ul> |

## Ports and connectors

**Table 8. External ports and connectors**

| External:          |   |
|--------------------|---|
| USB                | <ul style="list-style-type: none"> <li>• One USB 3.2 Gen 1 port</li> <li>• One USB 3.2 Gen 1 port with PowerShare</li> <li>• Two Thunderbolt 4 ports with DisplayPort Alt Mode/USB4/Power Delivery</li> </ul> |
| Audio              | One universal audio port  |
| Video              | One HDMI 2.0 port   |
| Media card reader  | One micro SD-card slot  |
| Docking port       | Supported through USB Type-C  |
| Power adapter port | Type-C power input  |
| Security           | One wedge-shaped lock slot  |
| Communication      | <ul style="list-style-type: none"> <li>• RJ45 port</li> <li>• microSIM card (optional)</li> </ul>   |
| Card slot          | Smart card reader slot (optional)   |

**Table 9. Internal ports and connectors**

| Internal: |   |
|-----------|---|
| M.2       | <ul style="list-style-type: none"> <li>• M.2 2230 slot for Wi-Fi and Bluetooth combo card</li> <li>• M.2 3042 for WWAN</li> <li>• Two M.2 2280/2230 slot for solid-state drive</li> </ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, see the knowledge base article <a href="#">SLN301626</a>.</p> |

## Communications

### Ethernet

**Table 10. Ethernet specifications**

| Description   | Values  |
|---------------|---|
| Model number  | <ul style="list-style-type: none"> <li>• Intel I219-LM</li> <li>• Intel I219-V</li> </ul> |
| Transfer rate | 10/100/1000 Mbps  |

### Wireless module

**Table 11. Wireless module specifications**

| Description               | Option one   | Option two   | Option Three   |
|---------------------------|--|--|--|
| Model number              | Intel Wi-Fi 6 AX201  | Intel Wi-Fi 6 AX210  | MediaTek MT792   |
| Transfer rate             | Up to 2400 Mbps  | Up to 2400 Mbps  | Up to 1.2 Gbps   |
| Frequency bands supported | 2.4 GHz/5 GHz  | 2.4 GHz/5 GHz/6 GHz  | 2.4 GHz/5 GHz  |
| Wireless standards        | <ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g</li> <li>• Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>• Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>• Wi-Fi 6 (Wi-Fi 802.11ax)</li> </ul> | <ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g</li> <li>• Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>• Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>• Wi-Fi 6 (Wi-Fi 802.11ax)</li> </ul> | <ul style="list-style-type: none"> <li>• Wi-Fi 802.11ax</li> <li>• Wi-Fi 802.11ac</li> </ul>               |
| Encryption                | <ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>   | <ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>   | <ul style="list-style-type: none"> <li>• 64-bit/128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul> |
| Bluetooth                 | Bluetooth 5.1  | Bluetooth 5.2  | Bluetooth 5.2  |

### WWAN module

**Table 12. Wireless module specifications**

| Description   | Values                                   |
|---------------|--|
| Model number  | Intel XMM 7360 Global LTE-Advanced, CAT9 |
| Transfer rate | Up to 450 Mbps DL/50 Mbps UL (Cat 9)     |

**Table 12. Wireless module specifications (continued)**

| Description               | Values   |
|---------------------------|--|
| Frequency bands supported | (1,2,3,4,5,7,8,11,12,13,17,18,19,20,21,26,28,29,30,38,39,40,41,66), HSPA+ (1, 2, 4,5, 8) |
| Wireless standards        | Not Applicable   |
| Encryption                | Not Applicable   |
| Bluetooth                 | Not Applicable   |

**NOTE:** For instructions on how to find your computer's IMEI (International Mobile Station Equipment Identity) number, see the knowledge base article [000143678](http://www.dell.com/support) at [www.dell.com/support](http://www.dell.com/support).

## Audio

**Table 13. Audio specifications**

| Description                | Values                             |
|----------------------------|------------------------------------|
| Controller                 | REALTEK ALC3204                    |
| Stereo conversion          | Supported                          |
| Internal interface         | High definition audio interface    |
| External interface         | Universal audio port               |
| Speakers                   | Two                                |
| Internal speaker amplifier | Supported (audio codec integrated) |
| External volume controls   | Keyboard shortcut controls         |
| Speaker output:            |                                    |
| Average                    | 2 W                                |
| Peak                       | 2.5 W                              |
| Subwoofer output           | Not supported                      |
| Microphone                 | Dual-array microphones             |

## Storage

Your computer supports one of the following configurations:

- One M.2 2230, Gen 3 PCIe x4 NVMe, Class 35 SSD (slot 1)
- One M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 SSD (slot 1)
- One M.2 2280, Gen 3 PCIe x4 NVMe, Class 40 SSD, Self-encrypting drive (slot 1)

The primary drive of your computer varies with the storage configuration.

**Table 14. Storage specifications**

| Form factor                          | Interface type     | Capacity     |
|--------------------------------------|--------------------|--------------|
| M.2 2230, Class 35 solid-state drive | Gen 3 PCIe x4 NVMe | Up to 512 GB |



**Table 14. Storage specifications (continued)**

| Form factor   | Interface type     | Capacity   |
|---|--------------------|------------|
| M.2 2280, Class 40 solid-state drive                        | Gen 3 PCIe x4 NVMe | Up to 1 TB |
| M.2 2280, Class 40 solid-state drive                        | Gen 4 PCIe x4 NVMe | Up to 2 TB |
| M.2 2280, Class 40 solid-state drive, Self-encrypting drive | Gen 3 PCIe x4 NVMe | Up to 512  |

## Media-card reader

**Table 15. Media-card reader specifications**

| Description     | Values   |
|-----------------|--|
| Type            | One microSD-card   |
| Cards supported | <ul style="list-style-type: none"> <li>• Micro Secure Digital (mSD)</li> <li>• Micro Secure Digital High Capacity (mSDHC)</li> <li>• Micro Secure Digital Extended Capacity (mSDXC)</li> </ul> |

## Keyboard

**Table 16. Keyboard specifications**

| Description    | Values  |
|----------------|---|
| Type           | <ul style="list-style-type: none"> <li>• Extended single-point non-backlit keyboard</li> <li>• Extended single-point backlit keyboard</li> </ul>  |
| Layout         | QWERTY  |
| Number of keys | <ul style="list-style-type: none"> <li>• United States and Canada: 79 keys</li> <li>• United Kingdom: 80 keys</li> <li>• Japan: 83 keys</li> </ul>  |
| Size           | <p>X=18.05 mm key pitch</p> <p>Y=18.05 mm key pitch</p>   |
| Shortcut keys  | <p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.</p> <p><b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) by changing the <b>Function Key Behavior</b> in system setup program. <a href="#">Keyboard shortcuts</a></p> |

# Camera

The following table lists the camera specifications of your Latitude 5420.

**Table 17. Camera specifications**

| Description                 |                 | Option one                    | Option two                         | Option three   |
|-----------------------------|-----------------|-------------------------------|------------------------------------|--|
| Number of cameras           |                 | One                           | One                                | One  |
| Camera type                 |                 | Integrated 6 mm HD RGB Webcam | Integrated 6 mm HD RGB + IR Webcam | Integrated 6 mm FHD RGB + IR Webcam with proximity sensor and ALS (Optional) |
| Camera location             |                 | Front camera                  | Front camera                       | Front camera   |
| Camera sensor type          |                 | CMOS sensor technology        | CMOS sensor technology             | CMOS sensor technology   |
| Camera resolution:          |                 |                               |                                    |  |
|                             | Still image     | 0.92 megapixels               | 0.92 megapixels                    | 0.92 megapixels  |
|                             | Video           | 1280 x 720 (HD) at 30 fps     | 1280 x 720 (HD) at 30 fps          | 1920 x 1080 (FHD) at 30 fps  |
| Infrared camera resolution: |                 |                               |                                    |  |
|                             | Still image     | NA                            | 0.23                               | 0.23   |
|                             | Video           | NA                            | 640 x 360                          | 640 x 360  |
| Diagonal viewing angle:     |                 |                               |                                    |  |
|                             | Camera          | 78.60 degrees                 | 87 degrees                         | 87.60 degrees  |
|                             | Infrared camera | NA                            | 87 degrees                         | 87.60 degrees  |

# Clickpad

The following table lists the clickpad specifications of your Precision 3560.

**Table 18. Clickpad specifications**

| Description          |            | Values             |
|----------------------|------------|--------------------|
| Clickpad resolution  |            | >=300 dpi          |
| Clickpad dimensions: |            |                    |
|                      | Horizontal | 115 mm (4.53 inch) |
|                      | Vertical   | 67 mm (2.64 inch)  |

# Power adapter

**Table 19. Power adapter specifications**

| Description | Values |      |
|-------------|--------|------|
| Type        | 65 W   | 90 W |

**Table 19. Power adapter specifications (continued)**

| Description                 |           | Values  |  |
|-----------------------------|-----------|---|--|
| Diameter (connector)        |           | USB-C   | USB-C  |
| Input voltage               |           | 100 VAC x 240 VAC   | 100 VAC x 240 VAC  |
| Input frequency             |           | 50 Hz to 60 Hz  | 50 Hz to 60 Hz   |
| Input current (maximum)     |           | 1.7 A   | 1.5 A  |
| Output current (continuous) |           | <ul style="list-style-type: none"> <li>● 20 V/3.25 A (Continuous)</li> <li>● 15 V/3 A (Continuous)</li> <li>● 9.0 V/3 A (Continuous)</li> <li>● 5.0 V/3 A (Continuous)</li> </ul> | <ul style="list-style-type: none"> <li>● 20 V/4.5 A (Continuous)</li> <li>● 15 V/3 A (Continuous)</li> <li>● 9.0 V/3 A (Continuous)</li> <li>● 5.0 V/3 A (Continuous)</li> </ul> |
| Rated output voltage        |           | 20 VDC/15 VDC/9 VDC/5 VDC   | 20 VDC/15 VDC/9 VDC/5 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)   |

## Battery

The following table lists the battery specifications of your Latitude 5420.

**Table 20. Battery specifications**

| Description              |           | Values  |   |   |   |
|--------------------------|-----------|---|---|---|---|
| Battery type             |           | 3-cell lithium-ion 42 WHr, ExpressCharge Boost  | 4-cell lithium-ion 63 WHr, ExpressCharge Boost  | 3-cell lithium-ion 42 WHr LCL   | 4-cell lithium-ion 63 WHr LCL   |
| Battery voltage          |           | 11.40 VDC   | 15.20 VDC   | 11.40 VDC   | 15.20 VDC   |
| Battery weight (maximum) |           | 0.18 kg ( 0.40 lb)  | 0.25 kg ( 0.55 lb)  | 0.18 kg ( 0.40 lb)  | 0.25 kg ( 0.55 lb)  |
| Battery dimensions:      |           |   |   |   |   |
|                          | Height    | 5.70 mm (0.22 in.)  | 5.70 mm (0.22 in.)  | 5.70 mm (0.22 in.)  | 5.70 mm (0.22 in.)  |
|                          | Width     | 95.90 mm (3.78 in.)   | 95.90 mm (3.78 in.)   | 95.90 mm (3.78 in.)   | 95.90 mm (3.78 in.)   |
|                          | Depth     | 207.90 mm (8.19 in.)  | 238.00 mm (9.37 in.)  | 207.90 mm (8.19 in.)  | 238.00 mm (9.37 in.)  |
| Temperature range:       |           |   |   |   |   |
|                          | Operating | <ul style="list-style-type: none"> <li>● Charge: 0 °C to 50 °C (32 °F to 122 °F)</li> <li>● Discharge: 0 °C to 70 °C (32 °F to 158 °F)</li> </ul> | <ul style="list-style-type: none"> <li>● Charge: 0 °C to 50 °C (32 °F to 122 °F)</li> <li>● Discharge: 0 °C to 70 °C (32 °F to 158 °F)</li> </ul> | <ul style="list-style-type: none"> <li>● Charge: 0 °C to 50 °C (32 °F to 122 °F)</li> <li>● Discharge: 0 °C to 70 °C (32 °F to 158 °F)</li> </ul> | <ul style="list-style-type: none"> <li>● Charge: 0 °C to 50 °C (32 °F to 122 °F)</li> <li>● Discharge: 0 °C to 70 °C (32 °F to 158 °F)</li> </ul> |
|                          | Storage   | -20 °C to 60 °C (4 °F to 140 °F)  | -20 °C to 60 °C (4 °F to 140 °F)  | -20 °C to 60 °C (4 °F to 140 °F)  | -20 °C to 60 °C (4 °F to 140 °F)  |

**Table 20. Battery specifications (continued)**

| Description                         | Values  |   |   |   |
|-------------------------------------|---|---|---|---|
| Battery operating time              | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.   | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.   | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.   | Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.   |
| Battery charging time (approximate) | From 0% up to 35% in 20 minutes (ExpressCharge Boost), 2 hr ( Express charge ), 3 hr (Standard charge) (when the computer is off)<br><b>i</b> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, on <a href="http://www.dell.com/">www.dell.com/</a> | From 0% up to 35% in 20 minutes (ExpressCharge Boost), 2 hr ( Express charge ), 3 hr (Standard charge) (when the computer is off)<br><b>i</b> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, on <a href="http://www.dell.com/">www.dell.com/</a> | 2 hr ( Express charge ), 3 hr (Standard charge) (when the computer is off).<br><b>i</b> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, on <a href="http://www.dell.com/">www.dell.com/</a> | 2 hr ( Express charge ), 3 hr (Standard charge) (when the computer is off).<br><b>i</b> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, on <a href="http://www.dell.com/">www.dell.com/</a> |
| Life span (approximate)             | 1 year  | 1 year  | 3 years   | 3 years   |
| Coin-cell battery                   | CR-2032   | CR-2032   | CR-2032   | CR-2032   |

## Display

The following table lists the display specifications of your Latitude 5420.

**Table 21. Display specifications**

| Description                             | Option one           | Option two                 | Option three                                   | Option four                | Option five                |
|---|----------------------|----------------------------|--|----------------------------|----------------------------|
| Display type                            | High Definition (HD) | Full High Definition (FHD) | Full High Definition (FHD)                     | Full High Definition (FHD) | Full High Definition (FHD) |
| Display-panel technology                | Twisted Nematic (TN) | Wide Viewing Angle (WVA)   | Wide Viewing Angle (WVA), Low Blue Light (LBL) | Wide Viewing Angle (WVA)   | Wide viewing angle (WVA)   |
| Display-panel dimensions (active area): |                      |                            |  |                            |                            |
| Height                                  | 173.95 mm            | 173.95 mm                  | 173.95 mm                                      | 173.95 mm                  | 173.95 mm                  |
| Width                                   | 309.4 mm             | 309.4 mm                   | 309.4 mm                                       | 309.4 mm                   | 309.4 mm                   |
| Diagonal                                | 355.6 mm             | 355.6 mm                   | 355.6 mm                                       | 355.6 mm                   | 355.6 mm                   |
| Display-panel native resolution         | 1366 x 768           | 1920 x 1080                | 1920 x 1080                                    | 1920 x 1080                | 1920 x 1080                |

**Table 21. Display specifications (continued)**

| <b>Description</b>          | <b>Option one</b>   | <b>Option two</b>   | <b>Option three</b> | <b>Option four</b>  | <b>Option five</b>  |
|-----------------------------|---|---------------------|---------------------|---------------------|---------------------|
| Luminance (typical)         | 220 nits  | 250 nits            | 400 nits            | 300 nits            | 300 nits            |
| Megapixels                  | 1.049   | 2.07                | 2.07                | 2.07                | 2.07                |
| Color gamut                 | NTSC 45%  | NTSC 45%            | sRGB 100%           | NTSC 72%            | sRGB 100% typ       |
| Pixels Per Inch (PPI)       | 112   | 157                 | 157                 | 157                 | 157                 |
| Contrast ratio (typ)        | 300:1   | 600:1               | 1000:1              | 600:1               | 600:1               |
| Response time (max)         | 25 ms   | 35 ms               | 35 ms               | 35 ms               | 35 ms               |
| Refresh rate                | 60 Hz   | 60 Hz               | 60 Hz               | 60 Hz               | 60 Hz               |
| Horizontal view angle       | 40 +/-degrees   | 80 +/-degrees       | 80 +/-degrees       | 80 +/-degrees       | 80 +/- degrees      |
| Vertical view angle         | <ul style="list-style-type: none"> <li>• Top: 10 +/-degrees</li> <li>• Bottom: 30 +/-degrees</li> </ul> | 80 +/-degrees       | 80 +/-degrees       | 80 +/-degrees       | 80 +/- degrees      |
| Pixel pitch                 | 0.2265 mm x 0.2265 mm   | 0.161 mm x 0.161 mm | 0.161 mm x 0.161 mm | 0.161 mm x 0.161 mm | 0.161 mm x 0.161 mm |
| Power consumption (maximum) | 2.4 W   | 3.2 W               | 2.5 W               | 4.51W               | 3.5 W               |
| Anti-glare vs glossy finish | Anti-glare  | Anti-glare          | Anti-glare          | Anti-glare          | Anti-glare          |
| Touch options               | No  | No                  | No                  | Yes                 | Yes                 |

## Fingerprint reader (optional)

**Table 22. Fingerprint reader specifications**

| <b>Description</b>   | <b>Power button option</b> | <b>FIPS option</b> |
|----------------------|----------------------------|--------------------|
| Sensor technology    | Capacitive                 | Capacitive         |
| Sensor resolution    | 500 dpi                    | 508 dpi            |
| Sensor pixel size, X | 108                        | 256                |
| Sensor pixel size, Y | 88                         | 360                |

# Video

**Table 23. Integrated graphics specifications**

| Integrated graphics                |                                       |                      |   |
|------------------------------------|---------------------------------------|----------------------|---|
| Controller                         | External display support              | Memory size          | Processor   |
| Intel Iris X <sup>e</sup> Graphics | HDMI 2.0, DisplayPort over USB Type-C | Shared system memory | 11 <sup>th</sup> Generation Intel Core i5/i7 Processors<br><i>i</i> <b>NOTE:</b> System with single-channel memory is shown as <b>Intel UHD Graphics</b> in Intel Graphics Command Center (IGCC). |
| Intel UHD Graphics                 | HDMI 2.0, DisplayPort over USB Type-C | Shared system memory | 11 <sup>th</sup> Generation Intel Core i3 Processors  |
| Intel UHD Graphics                 | HDMI 1.4, DisplayPort over USB Type-C | Shared system memory | 10 <sup>th</sup> Generation Intel Core i5/i7 Processors   |

## Multiple display support matrix

The following table lists the multiple display support matrix of your Latitude 5420.

**Table 24. Multiple display support matrix for 11th Generation Intel Core**

| Graphics Card  | Supported external displays with computer internal display on | Supported external displays with computer internal display off |
|----------------|---|--|
| Integrated GPU | Up to 3   | Up to 4  |

**Table 25. Multiple display support matrix for 10th Generation Intel Core**

| Graphics Card  | Supported external displays with computer internal display on | Supported external displays with computer internal display off |
|----------------|---|--|
| Integrated GPU | Up to 2   | Up to 3  |

## Hardware security

The following table lists the hardware security options supported by your .

**Table 26. Hardware security**

| Hardware security options                                 |
|---|
| Trusted Platform Module (TPM) 2.0 discrete                |
| FIPS 140-2 certification for TPM                          |
| TCG (Trusted Computing Group) Certification for TPM       |
| Fingerprint reader in power button tied to ControlVault 3 |

**Table 26. Hardware security (continued)**


| Hardware security options  |
|--|
| ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification |
| Contacted Smart Card and ControlVault 3                                      |
| Contactless Smart Card, NFC, and ControlVault 3                              |
| SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL                        |
| FIPS 201 Full Scan FPR and ControlVault 3                                    |

## Operating and storage environment

This table lists the operating and storage specifications of your Latitude 5420.

**Airborne contaminant level:** G1 as defined by ISA-S71.04-1985

**Table 27. Computer environment**

| Description  | Operating                              | Storage                                 |
|--|--|---|
| Temperature range  | 0°C to 40°C (32°F to 104°F)            | -40°C to 65°C (-40°F to 149°F)          |
| Relative humidity (maximum)  | 10% to 90% (non-condensing)            | 0% to 95% (non-condensing)              |
| Vibration (maximum)*   | 0.66 GRMS                              | 1.30 GRMS                               |
| Shock (maximum)  | 140 G†                                 | 160 G†                                  |
| Altitude range   | -15.2 m to 3048 m (-50 ft to 10000 ft) | -15.2 m to 10668 m (-50 ft to 35000 ft) |
|  <b>CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.</b> |  |   |

\* Measured using a random vibration spectrum that simulates user environment.

† Measured using a 2 ms half-sine pulse.


## Sensor and control

The following table lists the location of the sensor and control available in your .

**Table 28. Sensor and control**

| Sensor support |   |
|----------------|---|
| Sensor         | Ambient Light Sensor on the hinge-up (optional)   |
|                | P-sensor on the hinge-up (optional)   |
|                | Accelerometer (G sensor): One on the base (system board) and another on the hinge-up (optional) |

## Dell low blue light display

 **WARNING: Prolonged exposure to blue light from the display may lead to long-term effects such as eye strain, eye fatigue, or damage to the eyes.**

Blue light is a color in the light spectrum which has a short wavelength and high energy. Chronic exposure to blue light, particularly from digital sources, may disrupt sleep patterns and cause long-term effects such as eye strain, eye fatigue, or damage to the eyes.

The display on this computer is designed to minimize blue light and complies with TÜV Rheinland's requirement for low blue light displays.

Low blue light mode is enabled at the factory, so no further configuration is necessary.

To reduce the risk of eye strain, it is also recommended that you:

- Position the display at a comfortable viewing distance between 20 and 28 inches (50 and 70 cm) from your eyes.
- Blink frequently to moisten your eyes, wet your eyes with water, or apply suitable eye drops.
- Look away from your display, and gaze at a distant object at 20 ft (609.60 cm) away for at least 20 seconds during each break.
- Take an extended break for 20 minutes every two hours.




# Getting help and contacting Dell

## Self-help resources


You can get information and help on Dell products and services using these self-help resources:


**Table 29. Self-help resources**

| Self-help resources  | Resource location   |
|--|---|
| Information about Dell products and services   | <a href="http://www.dell.com">www.dell.com</a>  |
| Tips   |    |
| Contact Support  | In Windows search, type <code>Contact Support</code> , and press Enter.   |
| Online help for operating system   | <a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a><br><a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>  |
| Troubleshooting information, user manuals, setup instructions, product specifications, technical help blogs, drivers, software updates, and so on. | <a href="http://www.dell.com/support">www.dell.com/support</a>  |
| Dell knowledge base articles for a variety of computer concerns.   | <ol style="list-style-type: none"> <li>1. Go to <a href="https://www.dell.com/support/home/?app=knowledgebase">https://www.dell.com/support/home/?app=knowledgebase</a>.</li> <li>2. Type the subject or keyword in the <b>Search</b> box.</li> <li>3. Click <b>Search</b> to retrieve the related articles.</li> </ol> |

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://www.dell.com/contactdell).

 **NOTE:** Availability varies by country and product, and some services may not be available in your country.

 **NOTE:** If you do not have an active internet connection, you can find contact information on your purchase invoice, packing slip, bill, or Dell product catalog.