

# Latitude 3520

## 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 3520

## About this task

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

## Steps

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



**NOTE:** To conserve battery power, the battery might enter power saving mode. Connect the power adapter and press the power button to turn on the computer.

2. Finish operating system setup.

### For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, see the knowledge base articles [SLN151664](#) and [SLN151748](#) at [www.dell.com/support](http://www.dell.com/support).

### For Windows:






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.

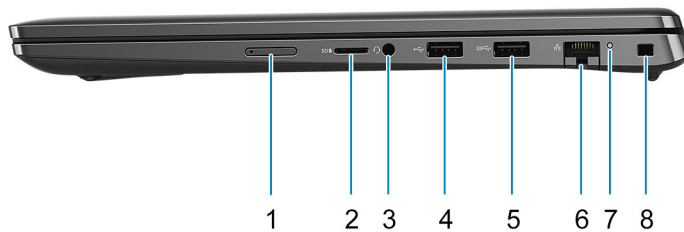
**NOTE:** The Dell apps are available in a subcategory in the Windows Start menu.

**Table 1. Locate Dell apps**

| Resources   | Description   |
|---|---|
|    | <p><b>Dell Product Registration</b><br/>Register your computer with Dell.</p>   |
|    | <p><b>Dell Help &amp; Support</b><br/>Access help and support for your computer.</p>  |
|    | <p><b>SupportAssist</b><br/>SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you need to make system updates. SupportAssist proactively checks the health of your system's hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running Windows operating system. For more information, see SupportAssist for Home PCs User's Guide on <a href="http://www.dell.com/serviceabilitytools">www.dell.com/serviceabilitytools</a>.</p> <p><b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p> |
|    | <p><b>Dell Update</b><br/>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">000149088</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>  |
|  | <p><b>Dell Digital Delivery</b><br/>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">000129837</a> at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>  |

## Views of Latitude 3520

### Right



1. Micro-SIM card slot (Optional)
2. MicroSD-card slot
3. Universal audio port
4. USB 2.0 port
5. USB 3.2 Gen 1 port
6. Network port
7. Network activity LED
8. Wedge-shaped lock slot

### Left

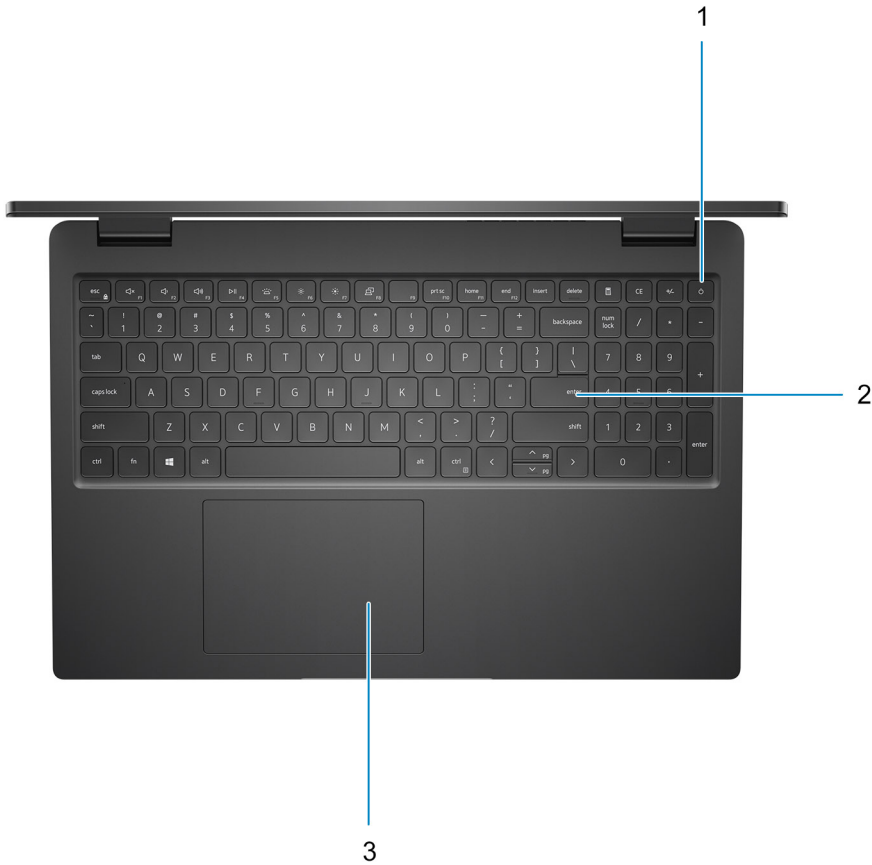


- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. DC-in port</li> <li>3. HDMI 1.4 port</li> </ol> | <ol style="list-style-type: none"> <li>2. Power LED</li> <li>4. USB 3.2 Gen 1 with PowerShare</li> </ol> |
|---|--|

- 5. USB 3.2 Gen 2x2 Type-C port with DisplayPort Alt Mode and Power Delivery

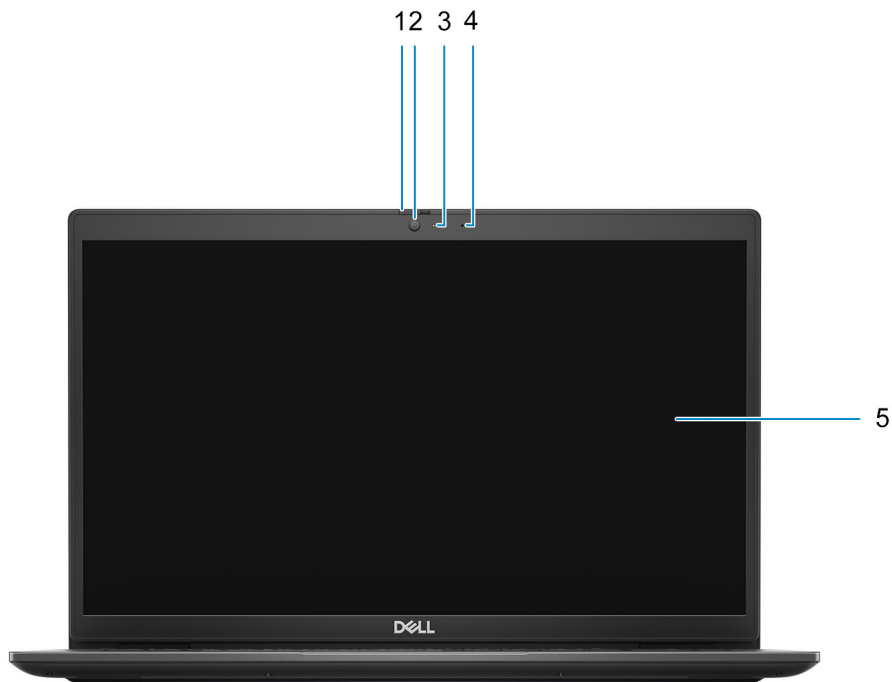
**i** **NOTE:** System's shipped with 10<sup>th</sup> Generation Intel processors will support USB 3.2 Gen 2 Type-C port with DP Alt Mode and Power Delivery.

## Top



- 1. Power button with optional fingerprint reader
- 2. Keyboard
- 3. Touchpad

# Front



1. Privacy shutter (Optional)
2. Camera
3. Camera status light
4. Microphone
5. LCD Panel



# Bottom



1. Speakers
2. Service tag location
3. Air vent

## LED Indicators and Characteristics

### Battery Charge and Status LED

**Table 2. Battery Charge and Status LED Indicator**

| Power Source | LED Behavior             | System 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) - System is turned on.
- S4 (Hibernate) - The system consumes the least power compared to all other sleep states. The system is almost at an OFF state, expect for a trickle power. The context data is written to hard drive.
- S5 (OFF) - The system is in a shutdown state.

# Specifications of Latitude 3520

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 3520.

**Table 3. Dimensions and weight**

| Description  | Values               |
|--|----------------------|
| Height:  |                      |
| Front height   | 18.06 mm (0.71 in.)  |
| Rear height  | 18.06 mm (0.71 in.)  |
| Width  | 361 mm (14.21 in.)   |
| Depth  | 240.95 mm (9.48 in.) |
| Weight   | 1.79 kg (3.95 lb)    |
|  <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability. |                      |

## Processor

The following table lists the details of the processors supported by your Latitude 3520

**Table 4. Processor**

| Description            | Option one          | Option two                                       | Option three                                     | Option Four                                      | Option Five                                      | Option Six                                       | Option Seven                                     |
|------------------------|---------------------|--|--|--|--|--|--|
| Processor type         | Intel Celeron 6305U | 10 <sup>th</sup> Generation Intel Core i3-1005G1 | 11 <sup>th</sup> Generation Intel Core i3-1115G4 | 11 <sup>th</sup> Generation Intel Core i5-1135G7 | 11 <sup>th</sup> Generation Intel Core i5-1145G7 | 11 <sup>th</sup> Generation Intel Core i7-1165G7 | 11 <sup>th</sup> Generation Intel Core i3-1125G4 |
| Processor wattage      | 15 W                | 15 W   | 15 W   | 15 W   | 15 W   | 15 W   | 15 W   |
| Processor core count   | 2                   | 2  | 2  | 4  | 4  | 4  | 4  |
| Processor thread count | 2                   | 4  | 4  | 8  | 8  | 8  | 8  |
| Processor speed        | Up to 1.80 GHz      | 2.40 GHz to 3.40 GHz                             | 3.0 GHz to 4.10 GHz                              | 2.40 GHz to 4.20 GHz                             | 2.60 GHz to 4.40 GHz                             | 2.80 GHz to 4.70 GHz                             | 2.0 GHz to 3.70 GHz                              |
| Processor cache        | 4 MB                | 4 MB   | 6 MB   | 8 MB   | 8 MB   | 12 MB  | 8 MB   |
| Integrated graphics    | Intel UHD Graphics  | Intel UHD Graphics                               | Intel UHD Graphics                               | Intel Iris X <sup>e</sup> Graphics               | Intel Iris X <sup>e</sup> Graphics               | Intel Iris X <sup>e</sup> Graphics               | Intel UHD graphics                               |

# Chipset

The following table lists the details of the chipset supported by your Latitude 3520

**Table 5. Chipset**

| Description    | Option one                                | Option two  |
|----------------|---|---|
| Processors     | Intel 10 <sup>th</sup> Generation Core i3 | Intel 11 <sup>th</sup> Generation Core i3/i5/i7 and Intel Celeron |
| Chipset        | Intel                                     | Intel   |
| DRAM bus width | 64-bit                                    | 64-bit  |
| Flash EPROM    | 32 MB                                     | 32 MB   |
| PCIe bus       | Up to Gen 3                               | Up to Gen 3   |

# Operating system

Your Latitude 3520 supports the following operating systems:

- Windows 11 Pro, 64-bit
- Windows 11 Home, 64-bit
- Windows 11 Pro National Academic, 64-bit
- Windows 10 Home, 64-bit
- Windows 10 Pro, 64-bit
- Ubuntu 20.04 LTS, 64-bit
- Kylin Linux version 10

# Memory

The following table lists the memory specifications of your Latitude 3520.

**Table 6. Memory specifications**

| Description                     | Values  |
|---------------------------------|---|
| Memory slots                    | Two SODIMM slots  |
| Memory type                     | DDR4  |
| Memory speed                    | 3200 MHz  |
| Maximum memory configuration    | 32 GB   |
| Minimum memory configuration    | 4 GB  |
| Memory size per slot            | 4 GB, 8 GB, 16 GB   |
| Memory configurations supported | <ul style="list-style-type: none"> <li>• 4 GB, 1 x 4 GB, DDR4, 3200 MHz</li> <li>• 8 GB, 1 x 8 GB, DDR4, 3200 MHz</li> <li>• 8 GB, 2 x 4 GB, DDR4, 3200 MHz</li> <li>• 16 GB, 1 x 16 GB, DDR4, 3200 MHz</li> <li>• 16 GB, 2 x 8 GB, DDR4, 3200 MHz</li> <li>• 32 GB, 2 x 16 GB, DDR4, 3200 MHz</li> </ul> |

# Intel Optane Memory with solid-state storage (optional)

Intel Optane Memory technology utilizes 3D XPoint memory technology and functions as a non-volatile storage cache/accelerator and/or storage device depending on the Intel Optane Memory installed in your computer.

Intel Optane Memory with solid-state storage functions as both a non-volatile storage cache/accelerator (enabling enhanced read/write speeds for hard-drive storage) and a solid-state storage solution. It neither replaces nor adds to the memory (RAM) installed on your computer.

**Table 7. Intel Optane Memory with solid-state storage specifications**

| Description                    | Values               |
|--------------------------------|----------------------|
| Interface                      | PCIe NVMe Gen3 x2+x2 |
| Connector                      | M.2 2280             |
| Capacity (Intel Optane memory) | 32 GB                |
| Capacity (solid-state storage) | 512 GB               |

**NOTE:** Intel Optane Memory with solid-state storage is supported on computers that meet the following requirements:

- 11<sup>th</sup> Generation Intel Core i3/i5/i7 processors
- Windows 10 64-bit version or higher
- Intel Rapid Storage Technology driver version 15.9.1.1018 or higher

## External ports

The following table lists the external ports of your Latitude 3520.

**Table 8. External ports**

| Description         | Values   |
|---------------------|--|
| Network port        | One Flip-down RJ 45 10/100/1000 Mbps   |
| USB ports           | <ul style="list-style-type: none"> <li>• One USB 3.2 Gen 2x2 Type-C port with DisplayPort alt mode/Power Delivery (11<sup>th</sup> Generation Intel processors only)</li> <li>• One USB 3.2 Gen 2 Type-C port with DisplayPort alt mode/Power Delivery (10<sup>th</sup> Generation Intel processors only)</li> <li>• One USB 3.2 Gen 1 port</li> <li>• One USB 3.2 Gen 1 port with PowerShare</li> <li>• One USB 2.0 port</li> </ul> |
| Audio port          | One universal audio port   |
| Video port          | One HDMI 1.4 port  |
| Media-card reader   | One microSD-card slot  |
| Power adapter port  | 4.5 mm barrel-type   |
| Security-cable slot | One wedge-shaped lock slot   |
| SIM-card slot       | One microSIM-card slot (WWAN only)   |

# Internal slots

The following table lists the internal slots of your Latitude 3520.

**Table 9. Internal slots**

| Description | Values   |
|-------------|--|
| M.2         | <ul style="list-style-type: none"> <li>One M.2 slot for WWAN (on WWAN I/O board)</li> <li>One M.2 2230 slot for Wi-Fi</li> <li>One M.2 slot for 2230/2280 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="https://www.dell.com/support/000144170">000144170</a> at <a href="https://www.dell.com/support">www.dell.com/support</a>.</p> |

# Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Latitude 3520.

**Table 10. Ethernet specifications**

| Description   | Values                      |
|---------------|-----------------------------|
| Model number  | Integrated Realtek RTL8111H |
| Transfer rate | e.g. 10/100/1000 Mbps       |

# Wireless module


The following table lists the Wireless Local Area Network (WLAN) modules supported on your Latitude 3520.

## Wireless module

**Table 11. Wireless module specifications**

| Description               | Values   |   |
|---------------------------|--|---|
|                           | Model number   | Intel Wi-Fi 6 AX201   |
| Transfer rate             | Up to 2400 Mbps  | Up to 867 Mbps  |
| Frequency bands supported | 2.4 GHz/5 GHz  | 2.4 GHz/5 GHz   |
| Wireless standards        | <ul style="list-style-type: none"> <li>WiFi 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 (WiFi 802.11ax)</li> </ul> | <ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>Wi-Fi 5 (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>                                  |
| Bluetooth                 | Bluetooth 5.1  | Bluetooth 5.0   |

**Table 12. WWAN module**

| Feature                   | Specifications  |
|---------------------------|---|
| Model number              | Dell DW5820e Intel 7360 LTE-A   |
| Host interface            | M.2 3042 form factor  |
| Network standard          | LTE FDD/TDD, WCDMA/HSPA+, GNSS/Beidou   |
| Transfer rate             | Up to 450 Mbps DL/50 Mbps UL (Cat 9)  |
| Operating Frequency Bands | (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)   |
| Data Rate                 | <ul style="list-style-type: none"> <li>• LTE FDD: 450 Mbps DL/50 Mbps UL (Cat 9)</li> <li>• LTE TDD: 347 Mbps DL/30 Mbps UL (Cat 9)</li> <li>• UMTS/HSPA+: UMTS 384 kbps DL/384 kbps UL</li> </ul>  |
| Power supply              | DC 3.135 V to 4.4 V, Typical 3.3 V  |
| Antenna Diversity         | Supported   |
| Radio On/Off              | Supported   |
| Wake On Wireless          | Supported   |
| Temperature               | <ul style="list-style-type: none"> <li>• Normal operating temperature: -10°C to + 55°C</li> <li>• Extended Operating temperature: -20°C to +65°C</li> </ul> <p> <b>NOTE:</b> Variation in temperature can affect the performance of the WWAN card.</p> |
| Antenna connector         | <ul style="list-style-type: none"> <li>• WWAN Main Antenna X 1</li> <li>• WWAN Diversity Antenna X 1</li> </ul>   |

## Audio

The following table lists the audio specifications of your Latitude 3520.

**Table 13. Audio specifications**

| Description                | Values                             |       |
|----------------------------|------------------------------------|-------|
| Audio controller           | Realtek ALC3204                    |       |
| Stereo conversion          | Supported                          |       |
| Internal audio interface   | High definition audio              |       |
| External audio interface   | Universal audio port               |       |
| Number of speakers         | Two                                |       |
| Internal-speaker amplifier | Supported (audio codec integrated) |       |
| External volume controls   | Keyboard shortcut controls         |       |
| Speaker output:            |                                    |       |
|                            | Average speaker output             | 2 W   |
|                            | Peak speaker output                | 2.5 W |
| Subwoofer output           | Not supported                      |       |

**Table 13. Audio specifications (continued)**

| Description | Values  |
|-------------|---|
| Microphone  | <ul style="list-style-type: none"> <li>• Single microphones with HD camera</li> <li>• Digital-array microphones with IR camera</li> </ul> |

## Storage

This section lists the storage options on your Latitude 3520.

Your computer supports one of the following configurations:

- One 2.5-inch SATA hard-drive
- One M.2 2230/2280 for solid-state drive (Class 35 or Class 40)
- One 2.5-inch SATA hard-drive and One M.2 2230/2280 solid-state drive

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

- 2.5-inch 5400/7200 RPM, SATA hard drive
- M.2 2230/2280 for solid-state drive (Class 35 or Class 40)


**Table 14. Storage specifications**

| Storage type                 | Interface type    | Capacity     |
|------------------------------|-------------------|--------------|
| 2.5-in. 5400 rpm, hard drive | SATA              | 1 TB         |
| 2.5-in. 7200 rpm, hard drive | SATA              | 500 GB       |
| M.2 2230 solid-state drive   | PCIe NVMe Gen3 x4 | Up to 512 GB |
| M.2 2280 solid-state drive   | PCIe NVMe Gen3 x4 | Up to 1 TB   |

## Media-card reader

The following table lists the media cards supported by your Latitude 3520.

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

| Description  | Values   |
|--|--|
| Media-card type  | One microSD 3.0 card   |
| Media-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> |
| <p> <b>NOTE:</b> The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.</p> |  |

## Keyboard

**Table 16. Keyboard specifications**

| Description | Values   |
|-------------|--|
| Type        | <ul style="list-style-type: none"> <li>• Standard non-backlit keyboard with optional fingerprint reader</li> <li>• Standard backlit keyboard with optional fingerprint reader</li> </ul> |

**Table 16. Keyboard specifications (continued)**

| Description    | Values   |
|----------------|--|
| Layout         | QWERTY   |
| Number of keys | <ul style="list-style-type: none"> <li>• United States and Canada: 99 keys</li> <li>• United Kingdom: 100 keys</li> <li>• Japan: 103 keys</li> </ul>   |
| Size           | X=18.70 mm key pitch<br>Y=18.05 mm key pitch   |
| Shortcut keys  | 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.<br>ⓘ <b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) changing <b>Function Key Behavior</b> in BIOS setup program. |

## Camera

**Table 17. Camera specifications**

| Standard Webcam        |             |                           |
|------------------------|-------------|---------------------------|
| Description            |             | Values                    |
| Number of cameras      |             | One                       |
| Type                   |             | HD RGB camera             |
| Location               |             | Front Camera              |
| Sensor type            |             | CMOS sensor technology    |
| Resolution:            |             |                           |
|                        | Still image | 0.92 megapixel            |
|                        | Video       | 1280 x 720 (HD) at 30 fps |
| Diagonal viewing angle |             | 78.60 degrees             |

**Table 18. IR Webcam specifications**

| IR Webcam               |  |                        |
|-------------------------|--|------------------------|
| Description             |  |                        |
| Number of cameras       |  | One                    |
| Type                    |  | HD RGB-IR camera       |
| Location                |  | Front Camera           |
| Sensor type             |  | CMOS sensor technology |
| Resolution              |  |                        |
| Camera                  |  |                        |
| Still image (megapixel) |  | 0.92                   |



**Table 18. IR Webcam specifications (continued)**

| IR Webcam              |                 |                           |
|------------------------|-----------------|---------------------------|
| Description            |                 |                           |
|                        | Video           | 1280 x 720 (HD) at 30 fps |
|                        | Infrared camera |                           |
| Still image            |                 | 0.23 megapixel            |
| Video                  |                 | 640 x 360 at 30 fps       |
| Diagonal viewing angle |                 |                           |
|                        | Camera          | 87 degree                 |
|                        | Infrared camera | 87 degree                 |

## Touchpad

The following table lists the touchpad specifications of your Latitude 3520.

**Table 19. Touchpad specifications**

| Description          | Values   |
|----------------------|--|
| Touchpad resolution: |  |
| Horizontal           | 305  |
| Vertical             | 305  |
| Touchpad dimensions: |  |
| Horizontal           | 115 mm (4.53 in.)  |
| Vertical             | 80 mm (3.15 in.)   |
| Touchpad gestures    | For more information about touchpad gestures available on Windows, see the Microsoft knowledge base article <a href="https://support.microsoft.com/4027871">4027871</a> at <a href="https://support.microsoft.com">support.microsoft.com</a> . |


## Power adapter

The following table lists the power adapter specifications of your Latitude 3520.

**Table 20. Power adapter specifications**



| Description                 | Option one                     | Option two  |
|-----------------------------|--------------------------------|---|
| Type                        | 65 W AC adapter, 4.5 mm barrel | 65 W AC adapter, USB-C  |
| Input voltage               | 100 VAC x 240 VAC              | 100 VAC x 240 VAC   |
| Input frequency             | 50 Hz x 60 Hz                  | 50 Hz x 60 Hz   |
| Input current (maximum)     | 1.60 A / 1.7 A                 | 1.70 A  |
| Output current (continuous) | 3.34 A                         | <ul style="list-style-type: none"> <li>• 20 V/3.25 A</li> <li>• 15 V/3 A</li> <li>• 9 V/3 A</li> <li>• 5 V/3 A</li> </ul> |

**Table 20. Power adapter specifications (continued)**

| Description  |           | Option one                     | Option two                     |
|--|-----------|--------------------------------|--------------------------------|
| Rated output voltage   |           | 19.50 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) |
|  <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> |           |                                |                                |

## Battery

**Table 21. Battery specifications**

| Description                 |           | Values  |   |
|-----------------------------|-----------|---|---|
| Type                        |           | 3-cell, 41 Whr  | 4-cell, 54 Whr  |
| Voltage                     |           | 11.25 VDC   | 15 VDC  |
| Weight (maximum)            |           | 0.17 kg (0.37 lb)   | 0.23 kg (0.50 lb)   |
| Dimensions:                 |           |   |   |
|                             | Height    | 206.40 mm (8.12 in.)  | 271.90 mm (10.70 in.)   |
|                             | Width     | 82 mm (3.22 in.)  | 82 mm (3.22 in.)  |
|                             | Depth     | 5.75 mm (0.23 in.)  | 5.75 mm (0.23 in.)  |
| 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)  |
| 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.   |
| Charging time (approximate) |           | 4 hours (when the computer is off)<br> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. | 4 hours (when the computer is off)<br> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. |
| Life span (approximate)     |           | 300 discharge/charge cycles   | 300 discharge/charge cycles   |
| Coin-cell battery           |           | CR2032  | CR2032  |
| 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.   |

# Display

**Table 22. Display specifications**

| Description                 |          | Values                |                            |                            |
|-----------------------------|----------|-----------------------|----------------------------|----------------------------|
| Type                        |          | High Definition (HD)  | Full High Definition (FHD) | Full High Definition (FHD) |
| Panel technology            |          | TN(Twisted Nematic)   | WVA(wide view angle)       | WVA(wide view angle)       |
| Luminance (typical)         |          | 220 nits              | 250 nits                   | 250 nits                   |
| Dimensions (active area):   |          |                       |                            |                            |
|                             | Height   | 193.59 mm (7.62 in.)  | 193.59 mm (7.62 in.)       | 193.59 mm (7.62 in.)       |
|                             | Width    | 344.16 mm (13.54 in.) | 344.16 mm (13.54 in.)      | 344.16 mm (13.54 in.)      |
|                             | Diagonal | 396.24 mm (15.60 in.) | 396.24 mm (15.60 in.)      | 396.24 mm (15.60 in.)      |
| Native resolution           |          | 1366 x 768            | 1920 x 1080                | 1920 x 1080                |
| Megapixels                  |          | 1.05                  | 2.073                      | 2.07                       |
| Color gamut                 |          | NTSC 45% Typ.         | NTSC 45% Typ.              | NTSC 45% Typ.              |
| Pixels per inch (PPI)       |          | 100                   | 141                        | 141                        |
| Contrast ratio (min)        |          | 500:1                 | 700:1                      | 700:1                      |
| Response time (max)         |          | 25 ms                 | 25 ms                      | 25 ms                      |
| Refresh rate                |          | 60 Hz                 | 60 Hz                      | 60 Hz                      |
| Horizontal view angle       |          | 40 degrees            | 80 degrees                 | 80 degrees                 |
| Vertical view angle         |          | 10/30 degrees         | 80 degrees                 | 80 degrees                 |
| Pixel pitch                 |          | 0.252 mm              | 0.179 mm                   | 0.179 mm                   |
| Power consumption (maximum) |          | 4.20 W                | 4.60 W                     | 4.50 W                     |
| Anti-glare vs glossy finish |          | Anti-glare            | Anti-glare                 | Anti-glare                 |
| Touch options               |          | No                    | No                         | Yes                        |

# Fingerprint reader

The following table lists the fingerprint-reader specifications of your Latitude 3520.

**NOTE:** The fingerprint reader is located on the power button.

**NOTE:** The fingerprint reader is an optional offering.

**Table 23. Fingerprint reader specifications**

| Description                          | Values     |
|--------------------------------------|------------|
| Fingerprint-reader sensor technology | Capacitive |

**Table 23. Fingerprint reader specifications (continued)**

| Description                          | Values   |
|--------------------------------------|----------|
| Fingerprint-reader sensor resolution | 500 dpi  |
| Fingerprint-reader sensor pixel size | 108 x 88 |

## GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Latitude 3520.

**Table 24. GPU—Integrated**

| Controller                         | Memory size          | Processor   |
|------------------------------------|----------------------|---|
| Intel UHD Graphics                 | Shared system memory | <ul style="list-style-type: none"> <li>Intel Celeron 6305U processor</li> <li>Intel 10<sup>th</sup> Generation Core i3 processors</li> <li>Intel 11<sup>th</sup> Generation Core i3 processors</li> </ul> |
| Intel Iris X <sup>e</sup> Graphics | Shared system memory | <ul style="list-style-type: none"> <li>Intel 11<sup>th</sup> Generation Core i5 / i7 processors</li> </ul>  |

## GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Latitude 3520.

**Table 25. GPU—Discrete**


| Controller           | External display support | Memory size | Memory type |
|----------------------|--------------------------|-------------|-------------|
| NVIDIA GeForce MX450 | Not Supported            | 2 GB        | GDDR5       |

## Operating and storage environment

This table lists the operating and storage specifications of your Latitude 3520.

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

**Table 26. Computer environment**

| Description  | Operating                               | Storage                                  |
|--|---|--|
| Temperature range  | 0°C to 35°C (32°F to 95°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)  | 110 G†                                  | 160 G†                                   |
| Altitude range   | -15.2 m to 3048 m (4.64 ft to 10000 ft) | -15.2 m to 10668 m (4.64 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 when the hard drive is in use.

# Keyboard shortcuts

## 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 27. List of keyboard shortcuts**



| Keys      | Primary behavior               |
|-----------|--------------------------------|
| Fn + F1   | Mute audio                     |
| Fn + F2   | Decrease volume                |
| Fn + F3   | Increase volume                |
| Fn + F4   | Play/Pause                     |
| Fn + F5   | Turn on/off keyboard backlight |
| Fn + F6   | Decrease brightness            |
| Fn + F7   | Increase brightness            |
| Fn + F8   | Switch to external display     |
| Fn + F10  | Print screen                   |
| Fn + F11  | Home                           |
| Fn + 12   | End                            |
| Fn + Ctrl | Open application menu          |

# 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 28. Self-help resources**

| Self-help resources   | Resource location  |
|---|--|
| Information about Dell products and services  | <a href="http://www.dell.com">www.dell.com</a>   |
| My Dell app   |   |
| 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>   |
| Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals and documents. | Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at <a href="http://www.dell.com/support">www.dell.com/support</a> .<br><br>For more information on how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a> . |
| Dell knowledge base articles for a variety of computer concerns   | <ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view 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/region and product, and some services may not be available in your country/region.

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