


Latitude 5540

Technical Guidebook

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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Views of Latitude 5540

Right



1. microSD-card slot

Reads from and writes to the microSD-card.

2. Universal audio jack

Connect headphones or a headset (headphone and microphone combo).

3. USB 3.2 Gen 1 port

Connect devices such as external storage devices and printers. Provides data transfer speeds up to 5 Gbps.

4. USB 3.2 Gen 1 port with PowerShare

Connect devices such as external storage devices and printers.

Provides data transfer speeds up to 5 Gbps. PowerShare enables you to charge your USB devices even when your computer is turned off.

i NOTE: If the charge on your computer's battery is less than 10 percent, you must connect the power adapter to charge your computer, and USB devices connected to the PowerShare port.

i NOTE: If a USB device is connected to the PowerShare port before the computer is turned off or in hibernate state, you must disconnect and connect it again to enable charging.

i NOTE: Certain USB devices may not charge when the computer is turned off or in sleep state. In such cases, turn on the computer to charge the device.

5. HDMI 2.0 port

Connect to a TV, external display or another HDMI-in enabled device. Provides video and audio output.

6. Network port

Connect an Ethernet (RJ-45) cable from a router or a broadband modem for network or Internet access, with a transfer rate of 10/100/1000 Mbps.

7. Security-cable slot (wedge-shaped)

Connect a security cable to prevent unauthorized movement of your computer.

Left



1. Thunderbolt 4.0 port with Power Delivery and DisplayPort

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at www.dell.com/support.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

2. Thunderbolt 4.0 port with Power Delivery and DisplayPort

Supports USB4, DisplayPort 1.4, Thunderbolt 4 and also enables you to connect to an external display using a display adapter. Provides data transfer rates of up to 40 Gbps for USB4 and Thunderbolt 4.

NOTE: You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at www.dell.com/support.

NOTE: A USB Type-C to DisplayPort adapter (sold separately) is required to connect a DisplayPort device.

NOTE: USB4 is backward compatible with USB 3.2, USB 2.0, and Thunderbolt 3.

NOTE: Thunderbolt 4 supports two 4K displays or one 8K display.

3. Battery-status light

Indicates the battery-charge status.

Solid yellow—Battery charge is low.

Blinking yellow—Battery charge is critical.

4. Smart-card reader slot (optional)

Top



1. Power button with optional fingerprint reader

Press to turn on the computer if it is turned off, in sleep state, or in hibernate state.

When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

If the power button has a fingerprint reader, place your finger on the power button steadily to log in.

NOTE: The power-status light on the power button is available only on computers without the fingerprint reader. Computers that are shipped with the fingerprint reader that is integrated on the power button will not have the power-status light on the power button.

NOTE: You can customize the power-button behavior in Windows.

2. Keyboard

3. Fingerprint reader (optional)

Press your finger on the fingerprint reader to log in to your computer. The fingerprint reader enables your computer to recognize your fingerprints as a password.

NOTE: Configure the fingerprint reader to register your fingerprint and enable access.

4. NFC/Contactless smart card reader (optional)

5. Touchpad

Move your finger on the touchpad to move the mouse pointer. Tap to left-click and two fingers tap to right-click.

Front



1. Left microphone

Provides digital sound input for audio recording and voice calls.

2. Infrared emitter (optional)

Emits infrared light, which enables the infrared camera to sense and track motion.

3. Infrared camera (optional)

Enhances security when paired with Windows Hello face authentication.

4. Camera shutter

Slide the privacy shutter to the left to access the camera lens.

5. Camera

Enables you to video chat, capture photos, and record videos.

6. Camera-status light

Turns on when the camera is in use.

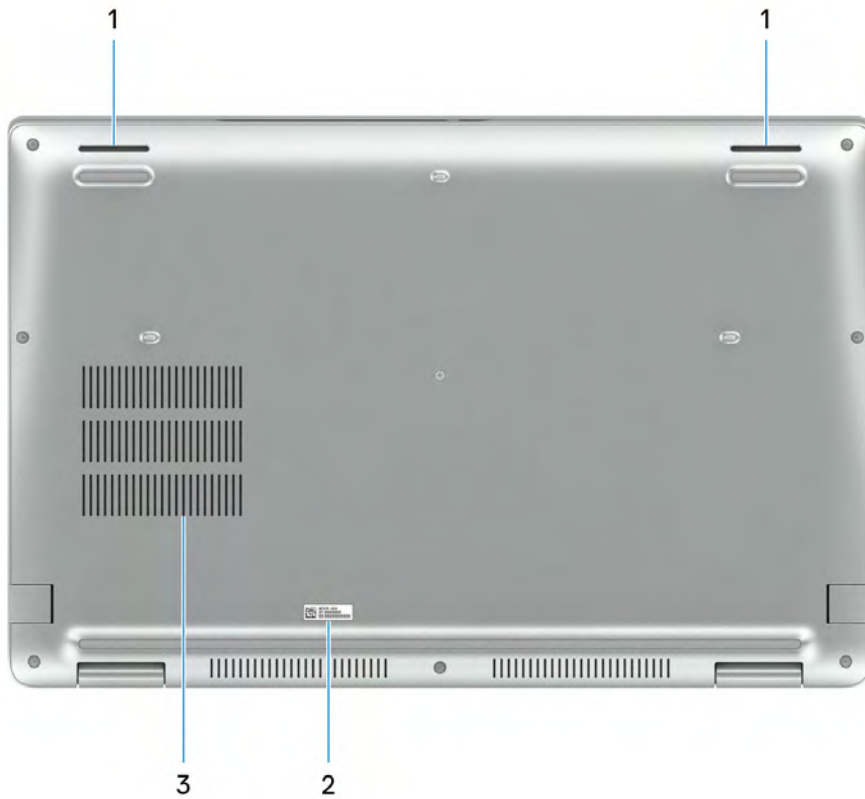
7. Ambient-light sensor

The sensor detects the ambient light and automatically adjusts the display brightness.

8. Right microphone

Provides digital sound input for audio recording and voice calls.

Bottom



1. Speakers

Provide audio output.

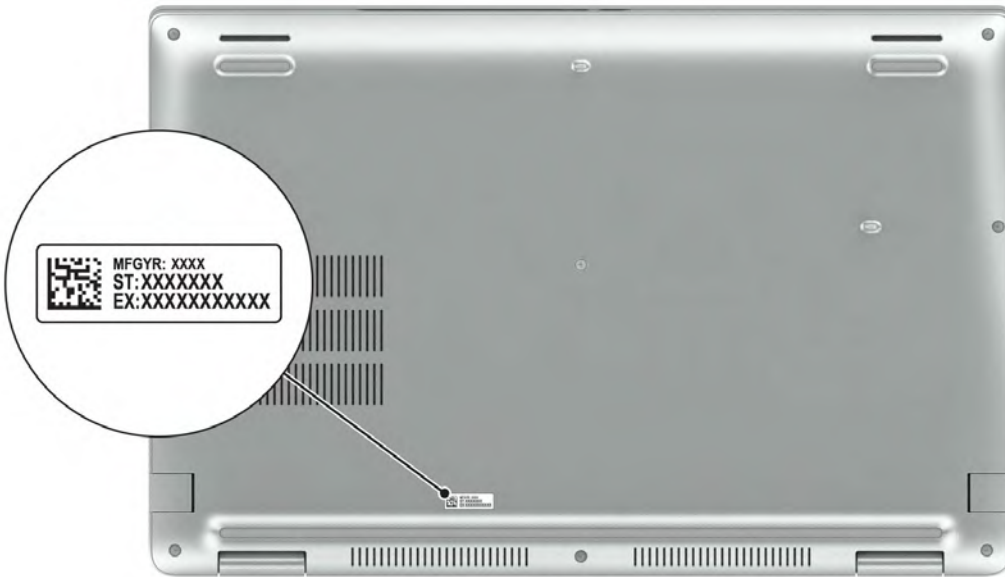
2. Service Tag label

The Service Tag is a unique alphanumeric identifier that enables Dell service technicians to identify the hardware components in your computer and access warranty information.

3. Fan vents

Service Tag

The service tag is a unique alphanumeric identifier that allows Dell service technicians to identify the hardware components in your computer and access warranty information.



Battery charge and status light

The following table lists the battery charge and status light behavior of your Latitude 5540.

Table 1. Battery charge and status light behavior

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 5540

Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 5540.


Table 2. Dimensions and weight

Description	Values
Height:	
Front height	20.80 mm (0.82 in.)
Rear height	22.80 mm (0.90 in.)
Width	357.80 mm (14.09 in.)
Depth	233.30 mm (9.19 in.)
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	1.613 kg (3.56 lb)

Processor

The following table lists the details of the processors supported by your Latitude 5540.

Table 3. Processor

Description	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Processor type	13 th Generation Intel Core i3-1315U	13 th Generation Intel Core i5-1335U	13 th Generation Intel Core i5-1345U vPro	13 th Generation Intel Core i5-1340P	13 th Generation Intel Core i5-1350P vPro	13 th Generation Intel Core i7-1355U	13 th Generation Intel Core i7-1365U vPro	13 th Generation Intel Core i7-1370P vPro
Processor wattage	15 W	15 W	15 W	28 W	28 W	15 W	15 W	28 W
Processor total core count	6	10	10	12	12	10	10	14
Performance-cores	2	2	2	4	4	2	2	6
Efficient-cores	4	8	8	8	8	8	8	8
Processor total thread counts	8	12	12	16	16	12	12	20
 NOTE: Intel® Hyper-Threading Technology is only available on Performance-cores.								
Processor speed	Up to 4.50 GHz	Up to 4.60 GHz	Up to 4.70 GHz	Up to 4.60 GHz	Up to 4.70 GHz	Up to 5 GHz	Up to 5.20 GHz	Up to 5.20 GHz
Performance-cores frequency								
Processor base frequency	1.20 GHz	1.30 GHz	1.60 GHz	1.90 GHz	1.90 GHz	1.70 GHz	1.80 GHz	1.90 GHz
Maximum turbo frequency	4.50 GHz	4.60 GHz	4.70 GHz	4.60 GHz	4.70 GHz	5 GHz	5.20 GHz	5.20 GHz
Efficient-cores frequency								
Processor base frequency	0.90 GHz	0.90 GHz	1.20 GHz	1.40 GHz	1.40 GHz	1.20 GHz	1.30 GHz	1.40 GHz
Maximum turbo frequency	3.30 GHz	3.40 GHz	3.50 GHz	3.40 GHz	3.50 GHz	3.70 GHz	3.90 GHz	3.90 GHz
Processor cache	10 MB	12 MB	12 MB	12 MB	12 MB	12 MB	12 MB	24 MB
Integrated graphics	Intel UHD Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics	Intel Iris X ^e Graphics

Chipset

The following table lists the details of the chipset supported by your Latitude 5540.

Table 4. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	13 th Generation Intel Core i3/i5/i7
DRAM bus width	64-bit
Flash EPROM	32 MB for non-vPro, 32 MB + 16 MB for vPro/vPro Essentials
PCIe bus	Up to Gen 4

Operating system

Your Latitude 5540 supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro downgrade (Win 10 Pro image FI + Win 11 Pro DPK)
- Ubuntu 22.04 LTS, 64-bit

Memory

The following table lists the memory specifications of your Latitude 5540.

Table 5. Memory specifications

Description	Values
Memory slots	Two-SODIMM slots
Memory type	<ul style="list-style-type: none">• Single-channel DDR4• Dual-channel DDR4• Single-channel DDR5• Dual-channel DDR5
Memory speed	<ul style="list-style-type: none">• 3200 MT/s• 4800 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, or 32 GB
Memory configurations supported	<ul style="list-style-type: none">• 8 GB, 1 x 8 GB, DDR4, 3200 MT/s, single-channel• 16 GB, 2 x 8 GB, DDR4, 3200 MT/s, dual-channel• 16 GB, 1 x 16 GB, DDR4, 3200 MT/s, single-channel• 32 GB, 2 x 16 GB, DDR4, 3200 MT/s, dual-channel• 64 GB, 2 x 32 GB, DDR4, 3200 MT/s, dual-channel• 8 GB, 1 x 8 GB, DDR5, 4800 MT/s, single-channel

Table 5. Memory specifications (continued)

Description	Values
	<ul style="list-style-type: none">• 16 GB, 2 x 8 GB, DDR5, 4800 MT/s, dual-channel• 16 GB, 1 x 16 GB, DDR5, 4800 MT/s, single-channel• 32 GB, 2 x 16 GB, DDR5, 4800 MT/s, dual-channel• 64 GB, 2 x 32 GB, DDR5, 4800 MT/s, dual-channel

External ports

The following table lists the external ports of your Latitude 5540.

Table 6. External ports

Description	Values
Network port	One RJ-45 port
USB ports	<ul style="list-style-type: none">• Two Thunderbolt 4 port Power Delivery and DisplayPort <p>NOTE: You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at www.dell.com/support.</p> <ul style="list-style-type: none">• One USB 3.2 Gen 1 port with PowerShare• One USB 3.2 Gen 1 port
Audio port	One Universal audio jack
Video port	One HDMI 2.0 port
Media-card reader	One microSD-card slot
Power-adaptor port	USB Type-C power input
Security-cable slot	One security-cable slot (wedge-shaped)

Internal slots

The following table lists the internal slots of your Latitude 5540.

Table 7. Internal slots

Description	Values
M.2	<ul style="list-style-type: none">• One M.2 2230 slot for WiFi and Bluetooth combo card• One M.2 2230/2280 slot for solid-state drive• One M.2 2230 slot for solid-state drive• One M.2 3042/3052 for WWAN card <p>NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at www.dell.com/support.</p>

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Latitude 5540.



Table 8. Ethernet specifications

Description	Values
Model number	Intel I219-V/Intel I219-LM
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your Latitude 5540.

Table 9. Wireless module specifications

Description	Option one	Option two
Model number	Realtek RTL8852BE	Intel AX211
Transfer rate	Up to 1201 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz/6 GHz
Wireless standards	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax) 	<ul style="list-style-type: none"> • WiFi 802.11a/b/g • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax) <p>NOTE:  Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.</p>
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.3	Bluetooth 5.3
	<p>NOTE:  The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.</p>	

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module supported on your Latitude 5540.

Table 10. WWAN module specifications

Description	Option one	Option two
Model number	DW5823, Intel XMM 7560 R Global LTE-Advanced, CAT16	DW5931e, Intel 5G 5000 Global Gigabit NR/LTE, 3GPP Release 15
Form factor	M.2 3042 Key-B	M.2 3042 Key-B
Host interface	PCIe Gen2	PCIe Gen3

Table 10. WWAN module specifications (continued)

Description	Option one	Option two
Network standard	LTE FDD/TDD, WCDMA/HSPA+,GPS/GLONASS/BDS/Galileo	NR FR1(Sub6) FDD/TDD, LTE FDD/TDD, WCDMA/HSPA+, GPS/GLONASS/Galileo/BDS/QZSS
Transfer data rate	<ul style="list-style-type: none"> ● Up to 1 Gbps DL (CAT16) ● Up 150 Mbps UL 	<ul style="list-style-type: none"> ● SA: DL 4.67 Gbps/UL 1.25 Gbps ● NSA: DL 3.74 Gbps/UL 700 Mbps ● LTE: DL 1.6 Gbps (CAT19)/UL 150 Mbps ● UMTS: DL 384 kbps/UL 384 kbps ● DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)
Operating frequency bands	<ul style="list-style-type: none"> ● LTE(B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41(HPUE), B42, B43, B46(receiver only), B48, B66, B71 ● WCDMA/HSPA+(1, 2, 4, 5, 8) 	<ul style="list-style-type: none"> ● NR(n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n77, n78, n79) ● LTE (B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66, B71*) ● WCDMA/HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135 V to 4.40 V, typical 3.30 V	DC 3.135 V to 4.4 V, Typical 3.3 V
SIM card	Supported through external SIM slot	Supported through external SIM slot
eSIM with dual SIM (DSSA)	Supported (the availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements)	Supported
Antenna diversity	Supported	Supported
Radio On/Off	Supported	Supported
Wake on wireless	Supported	Supported
Temperature	<ul style="list-style-type: none"> ● Normal operating temperature: -10°C to + 55°C ● Extended Operating temperature: -20°C to +65°C 	<ul style="list-style-type: none"> ● Normal operating temperature: -10°C to + 55°C ● Extended Operating temperature: -30°C to +75°C ● Storage temperature: -40°C to +85°C
Antenna connector	<ul style="list-style-type: none"> ● WWAN Main Antenna x 4 ● Supports 4x4 MIMO 	<ul style="list-style-type: none"> ● WWAN Main Antenna x 4 ● Supports 4x4 MIMO

i **NOTE:** For instructions on how to find your computer's IMEI (International Mobile Station Equipment Identity) number, search in the Knowledge Base Resource at www.dell.com/support.

Audio

The following table lists the audio specifications of your Latitude 5540.

Table 11. Audio specifications

Description		Values
Audio controller		Realtek Waves, MaxxAudio 12.0
Stereo conversion		Supported
Internal audio interface		High definition audio interface
External audio interface		Universal Audio Jack/HDMI 2.0 port
Number of speakers		2
Internal-speaker amplifier		Not supported
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2 W
Subwoofer output		Not supported
Microphone		Digital-array microphones in camera assembly

Storage

This section lists the storage options on your Latitude 5540.

Your Latitude 5540 supports one of the following options

- One M.2 2230/2280 solid-state drive or optional dual storage
 - **NOTE:** SSD Slot 1 on the system board supports M.2 2230 or M.2 2280 solid-state drives.
 - **NOTE:** SSD Slot 2 on the system board only supports M.2 2230 solid-state drives.
- One M.2 2230 self-encrypting drive

Table 12. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 2 TB
M.2 2280 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 1 TB
M.2 2230 self-encrypting drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 256 GB

Media-card reader

The following table lists the media-card reader specifications of your Latitude 5540.

Table 13. Media-card reader (standard offering)

Media supported (Maximum capacity supported will vary by Flash Media Types)	
Media Supported	<ul style="list-style-type: none"> Micro Secure Digital (mSD) Micro Secure Digital High Capacity (mSDHC) Micro Secure Digital Extended Capacity (mSDXC)
Support Specification Versions	microSD 4.0 card

Keyboard

The following table lists the keyboard specifications of your Latitude 5540.

Table 14. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none"> • Standard backlit keyboard • Standard non-backlit keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> • English US, English International, Arabic, Canada bilingual (MUI), Chinese traditional, French-Canadian, Greek, Hebrew, Korean, Russian, Thai, Ukrainian: 99 keys • French-Canadian Quebec, Brazilian, Belgian, Bulgarian, Czech & Slovakian (MUI), Danish, English UK, Estonian, French European, German, Hungarian, Italian, Nordic (MUI), Norwegian, Portugese Iberian, Slovenian, Spanish (Castillian), Spanish (Latin America), Swedish/Finnish, Swiss European (MUI), Turkish, Turkish F: 100 keys • Japanese: 103 keys
Keyboard size	X= 18.05 mm key pitch Y= 18.05 mm key pitch
Key distance (Key size: X/Y)	X=15.05 mm Y=15.05 mm
Keyboard shortcuts	<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>NOTE: You can define the primary behavior of the function keys (F1–F12) by changing Function Key Behavior in the BIOS setup program.</p>

Keyboard function keys

The **F1-F12** keys at the top of the keyboard are function keys. By default, these keys are used to perform specific functions defined by the software application in use.

You can run the secondary tasks that are indicated by the symbols on the function keys by pressing the function key with **fn**, for example, **fn** and **F1**. See the table below for the list of secondary tasks and the key combinations to run them.

NOTE: Keyboard characters may differ depending on the keyboard language configuration. Keys that are used for tasks remain the same, regardless of the keyboard language.

NOTE: You can define the primary behavior of function keys in the **Function Key Behavior** menu of the BIOS setup program.

Table 15. Secondary tasks of keyboard keys

Key combination for task	What the task does
fn and F1	Operating system and application specific F1 behavior
fn and F2	Operating system and application specific F2 behavior
fn and F3	Operating system and application specific F3 behavior
fn and F4	Operating system and application specific F4 behavior
fn and F5	Operating system and application specific F5 behavior
fn and F6	Operating system and application specific F6 behavior
fn and F8	Operating system and application specific F8 behavior
fn and F9	Operating system and application specific F9 behavior
fn and F10	Operating system and application specific F10 behavior
fn and F11	Operating system and application specific F11 behavior
fn and F12	Operating system and application specific F12 behavior
fn and Right Ctrl	Open application menu
fn and Cursor up	Page up
fn and Cursor down	Page down

Keys with alternate characters

There are other keys on your keyboard with alternate characters. The symbols that are shown at the bottom of these keys are the main characters that are displayed when the key is pressed; the symbols that are shown at the top of these keys are displayed when the key is pressed with the shift key. For example, if you press **2**, **2** is displayed; if you press **Shift** and **2**, **@** is displayed.

Camera

The following table lists the camera specifications of your Latitude 5540.

Table 16. Camera specifications

Description	Values
Number of cameras	One
Camera type	<ul style="list-style-type: none"> FHD RGB camera FHD RGB + IR camera FHD RGB+IR camera with Ambient Light Sensor, Express Sign-In with Presence Detection and Intelligent Privacy
Camera location	Front camera
Camera sensor type	CMOS sensor technology

Table 16. Camera specifications (continued)

Description		Values
Camera resolution:		
	Still image	2.07 megapixel
	Video	1920 x 1080 (FHD) at 30 fps
Infrared camera resolution:		
	Still image	0.23 megapixels
	Video	640 x 360 at 30 fps
Diagonal viewing angle:		
	Camera	80 degrees
	Infrared camera	86.6 degrees

Touchpad

The following table lists the touchpad specifications of your Latitude 5540.

Table 17. Touchpad specifications

Description		Values
Touchpad resolution:		>300 DPI
Touchpad dimensions:		
	Horizontal	115 mm (4.52 in.)
	Vertical	67 mm (2.64 in.)
Touchpad gestures		For more information about touchpad gestures available on: <ul style="list-style-type: none"> Windows, see the Microsoft knowledge base article at support.microsoft.com Ubuntu, see ubuntu.com/support


Power adapter

The following table lists the power adapter specifications of your Latitude 5540.

Table 18. Power adapter specifications

Description	Option one	Option two	Option three
Type	<ul style="list-style-type: none"> 60 W AC adapter, USB-C 60 W AC adapter, USB-C, 2-pin 	65 W AC adapter	100 W AC adapter, USB-C
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz	50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)	1.70 A	1.70 A	1.70 A

Table 18. Power adapter specifications (continued)

Description	Option one	Option two	Option three
Output current (continuous)	<ul style="list-style-type: none"> 20 V/3 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous) 	<ul style="list-style-type: none"> 20 V/3.25 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous) 	<ul style="list-style-type: none"> 20 V/5 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous)
Rated output voltage	20 VDC/15 VDC/9 VDC/5 VDC	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)	0°C to 40°C (32°F to 104°F)
Storage	-20°C to 70°C (-4°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
 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.			

Battery

The following table lists the battery specifications of your Latitude 5540.

Table 19. Battery specifications

Description	Option one	Option two	Option three	Option four
Battery type	3 cell, 42 WHr, lithium-ion, ExpressCharge + ExpressCharge Boost	3 cell, 42 WHr, lithium-ion, Long Cycle Life + ExpressCharge	3 cell, 54 WHr, lithium-ion, ExpressCharge + ExpressCharge Boost	3 cell, 54 WHr, lithium-ion, Long Cycle Life + ExpressCharge
Battery voltage	11.40 VDC	11.40 VDC	11.40 VDC	11.40 VDC
Battery weight (minimum)	0.19 kg (0.41 lb)	0.19 kg (0.41 lb)	0.22 kg (0.48 lb)	0.22 kg (0.48 lb)
Battery dimensions:				
	Height	5.73 mm (0.22 in.)	5.73 mm (0.22 in.)	5.73 mm (0.22 in.)
	Width	263 mm (10.35 in.)	263 mm (10.35 in.)	263 mm (10.35 in.)
	Depth	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)
Temperature range:				
	Operating	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F) 	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F) 	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F)
	Storage	-20°C to 65°C (4°F to 149°F)	-20°C to 65°C (4°F to 149°F)	-20°C to 65°C (4°F to 149°F)
Battery operating time	Varies depending on operating conditions		Varies depending on operating conditions and	Varies depending on operating

Table 19. Battery specifications (continued)

Description	Option one	Option two	Option three	Option four
	and can significantly reduce under certain power-intensive conditions.	can significantly reduce under certain power-intensive conditions.	conditions and can significantly reduce under certain power-intensive conditions.	conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate) ⓘ NOTE: 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, <i>Me and My Dell</i> on www.dell.com .	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 45°C normal express charge 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Express Charge Boost Charge Method (Fast Charge for Initial 35%):</p> <ul style="list-style-type: none"> 16°C to 45°C target charge time from 0% to 35% RSOC is 20 mins for Accelerated Charge 	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 45°C normal express charge 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours 	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 45°C normal express charge 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Express Charge Boost Charge Method (Fast Charge for Initial 35%):</p> <ul style="list-style-type: none"> 16°C to 45°C target charge time from 0% to 35% RSOC is 20 mins for Accelerated Charge 	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 45°C normal express charge 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours
Coin-cell battery	CR2032	CR2032	CR2032	CR2032

⚠ 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.

⚠ CAUTION: Dell recommends that you charge the battery regularly for optimal power consumption. If your battery charge is completely depleted, connect the power adapter, turn on your computer, and then restart your computer to reduce the power consumption.

Display

The following table lists the display specifications of your Latitude 5540.

Table 20. Display specifications

Description	Option one	Option two	Option three
Display type	15-inch Full High Definition (FHD)	15-inch Full High Definition (FHD)	15-inch Full High Definition (FHD), ComfortView Plus Low Blue Light, Battery Saving
Touch options	No	Yes	No
Display-panel technology	In-Plane Switching (IPS)	In-Plane Switching (IPS)	In-Plane Switching (IPS)
Display-panel dimensions (active area):			
Height	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)	193.60 mm (7.62 in.)
Width	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)	344.20 mm (13.55 in.)
Diagonal	396 mm (15.60 in.)	396 mm (15.60 in.)	396 mm (15.60 in.)
Display-panel native resolution	1920 x 1080	1920 x 1080	1920 x 1080
Luminance (typical)	250 nits	250 nits	400 nits
Megapixels	2.07	2.07	2.07
Color gamut	45% NTSC	45% NTSC	100% sRGB
Color depth	6-bit	6-bit	True 8-bit
Color	262,144 colors	262,144 colors	16,777,216 colors
Pixels Per Inch (PPI)	141	141	141
Contrast ratio (typical)	700:1	700:1	800:1
Response time (max)	35 ms	35 ms	35 ms
Refresh rate	60 Hz	60 Hz	60 Hz
Horizontal view angle	80 +/- degrees	80 +/- degrees	80 +/- degrees
Vertical view angle	80 +/- degrees	80 +/- degrees	80 +/- degrees
Pixel pitch	0.179 x 0.179 mm	0.179 x 0.179 mm	0.179 x 0.179 mm
Power consumption (maximum)	4.60 W	4.60 W	4.50 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare

Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Latitude 5540.

Table 21. Fingerprint reader specifications

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

Sensor

The following table lists the sensor of your Latitude 5540.

Table 22. Sensor

Sensor support
Ambient Light Sensor
Accelerometer in the base: ST Micro LIS2DW12TR
Accelerometer in the hinge-up (Upsell config with Emza/ALS/IR camera): ST Micro LNG2DMTR

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Latitude 5540.

Table 23. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics	One HDMI 2.0 port	single-channel memory	13 th Generation Intel Core i3
Intel Iris X ^e Graphics	One HDMI 2.0 port	dual-channel memory	13 th Generation Intel Core i5/17

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Latitude 5540.


Table 24. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA GeForce MX550	2 GB	GDDR6

External display support

The following table lists the external display support for your Latitude 5540.

Table 25. External display support

Graphics card	Supported external displays with laptop display enabled	Supported external displays with laptop display disabled
Intel Iris X ^e Graphics	3	4
Intel UHD Graphics	3	4
 NOTE: For more information about external display support, see the External Display Connection Guide on www.dell.com/support .		

Hardware security

The following table lists the hardware security of your Latitude 5540.

Table 26. Hardware security

Hardware security
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
TCG Certification for TPM (Trusted Computing Group)
Finger Print Reader in Power Button tied to ControlVault 3
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

Smart-card reader

Contactless smart-card reader

This section lists the contactless smart-card reader specifications of your Latitude 5540.

Table 27. Contactless smart-card reader specifications

Title	Description	Dell ControlVault 3 contactless smart-card reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes

Table 27. Contactless smart-card reader specifications (continued)

Title	Description	Dell ControlVault 3 contactless smart-card reader with NFC
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC compliant tag information	Yes
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes
NFC Peer-to-Peer Mode	Support for NFC Forum Defined Peer to Peer mode	Yes
NFC Proximity OS Interface	Enumerates NFP (Near Field Proximity) device for OS to utilize	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers	Yes
Dell ControlVault support	Device connects to Dell ControlVault for usage and processing	Yes


 **NOTE:** 125 Khz proximity cards are not supported.

Table 28. Supported cards

Manufacturer	Card
HID	jCOP readertest3 A card (14443a)
	1430 1L
	DESFire D8H
	iClass (Legacy)
	iClass SEOS
NXP/Mifare	Mifare DESFire 8K White PVC Cards
	Mifare Classic 1K White PVC Cards
	NXP Mifare Classic S50 ISO Card
G&D	idOnDemand - SCE3.2 144K
	SCE6.0 FIPS 80K Dual+ 1 K Mifare
	SCE6.0 nonFIPS 80K Dual+ 1 K Mifare
	SCE6.0 FIPS 144K Dual + 1K Mifare

Table 28. Supported cards (continued)

Manufacturer	Card
	SCE6.0 nonFIPS 144K Dual + 1 K Mifare
	SCE7.0 FIPS 144K
Oberthur	idOnDemand - OCS5.2 80K
	ID-One Cosmo 64 RSA D V5.4 T=0 card

Contacted smart-card reader

The following table lists the contacted smart-card reader specifications of your Latitude 5540.

Table 29. Contacted smart-card reader specifications


Title	Description	Dell ControlVault 3 smart-card reader
ISO 7816 -3 Class A Card Support	Reader capable of reading 5V powered smart mcard	Yes
ISO 7816 -3 Class B Card Support	Reader capable of reading 3V powered smart card	Yes
ISO 7816 -3 Class C Card support	Reader capable of reading 1.8V powered smart card	Yes
ISO 7816-1 Compliant	Specification for the reader	Yes
ISO 7816 -2 Compliant	Specification for smart card device physical characteristics (size, location of connection points, etc.)	Not applicable
T=0 support	Cards support character level transmission	Yes
T=1 support	Cards support block level transmission	Yes
EMVCo Compliant	Compliant with EMVCo (for electronic payment standards) smart card standards as posted to www.emvco.com	Yes
EMVCo Certified	Formally certified based on EMVCO smart card standards	Yes
PC/SC OS interface	Personal Computer/Smart Card specification for integration of hardware readers into personal computer environments	Yes
CCID driver compliance	Common driver support for Integrated Circuit Card Interface Device for OS level drivers.	Yes
Windows Certified	Device certified by WHCK	Yes
FIPS 201 (PIV/HSPD-12) Compliant via GSA	Device compliant with FIPS 201/PIV/HSPD-12 requirements	Yes

Operating and storage environment

This table lists the operating and storage specifications of your Latitude 5540.

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

Table 30. 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 (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 ft)
 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.		

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

† Measured using a 2 ms half-sine pulse.

Engineering specifications

Ethernet

Intel Ethernet Connection i219-LM

The following table lists the i219-LM specifications.

Table 31. Intel Ethernet Connection i219-LM specifications

Feature	Values
External connector type	RJ45
Data rate	10/100/1000 Mbps
Controller Details	
Controller bus architecture	PCI Express base specification revision 1.1
Integrated memory	Yes
Data transfer mode	Yes (Bus-Master DMA)
Power consumption (Full operation per data rate connection speed)	542 mW (Max)
Power consumption (Standby operation)	76 mW (Max)
IEEE standards compliance	802.3
Hardware certifications	N/A
Boot ROM support	EEPROM (Located in SPI)
Network Transfer Mode	
Network transfer rate	10 Mb (full/half-duplex)
10BASE-T (full-duplex) 20 Mbps	100 Mb (full/half-duplex)
100BASE-TX (half-duplex) 100 Mbps	1000 Mb (full-duplex)
Environmental	
Operating temperature range	0°C–85°C (32°F–185°F)
Operating humidity	20% to 80% (non condensing)
Operating system driver Support	<ul style="list-style-type: none"> • Windows (x64) • Ubuntu • Neokylin
Manageability	<ul style="list-style-type: none"> • Wakeup On LAN • PXE 2.1
Management capabilities alerting	Optional Intel Standard Manageability (must be made at time of purchase).


This term does not connote an actual operating speed of 1 Gb/sec. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Wireless module

Realtek RTL8852BE, 2x2, Wi-Fi 6 (Wi-Fi 802.11 a/b/g/n/ac/ax), Bluetooth 5.3 wireless card

The following table lists the Realtek RTL8852BE specifications.

Table 32. Realtek RTL8852BE specifications

Host interface	<ul style="list-style-type: none"> • PCIe for Wi-Fi • USB for Bluetooth
Network standard	IEEE 802.11a/b/g/n/ac/ax, MU-MIMO
Wi-Fi Alliance certifications	Wi-Fi CERTIFIED* a/b/g/n/ac/ax, WMM*, WPA, WPA2*, WPA3*, and Wi-Fi Direct (Microsoft Windows* only)
Operating frequency bands	<ul style="list-style-type: none"> • 2.4 GHz • 5 GHz
Data rate	<ul style="list-style-type: none"> • 2.4 GHz 40M: Up to 574 Mbps • 5 GHz 80M: Up to 1201 Mbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication	<ul style="list-style-type: none"> • WPA* and WPA2* Personal and Enterprise • WPA3* Personal and Enterprise
Client utility	Native Wi-Fi and Bluetooth Microsoft UI support
Software support	<ul style="list-style-type: none"> • Microsoft WHQL certified for Windows • Linux
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake on wireless	Supported
Wireless display	Native Miracast support by Windows
Wireless PAN standard	<ul style="list-style-type: none"> • Dual Mode Bluetooth 5.3 • BLE
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Operating temperature	0°C to +70°C
Storage temperature	-40°C to +85°C
 NOTE: *Other names and brands may be claimed as the property of others	

Intel AX211, 2x2 MIMO, 2400 Mbps, 2.4/5/6 GHz, Wi-Fi 6E (WiFi 802.11ax), Bluetooth 5.3 wireless card

The following table lists the Intel AX211 specifications.


NOTE: Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.

Table 33. Intel AX211 specifications

Host interface	CNVio
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use, MU-MIMO, new 6 GHz band
Wi-Fi Alliance certifications	Wi-Fi CERTIFIED* 6, Wi-Fi CERTIFIED* a/b/g/n/ac, WMM*, WMM*-Power Save, WPA2*, WPA3*, WPS*, PMF* ,Wi-Fi Direct*, Wi-Fi Agile Multiband*
Operating frequency bands	<ul style="list-style-type: none"> • 2.4 GHz • 5 GHz • 6 GHz
Data rate	<ul style="list-style-type: none"> • 2.4 GHz 40M: Up to 574 Mbps • 5/6 GHz 80M: Up to 1.2 Gbps • 5/6 GHz 160M: Up to 2.4 Gbps
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Security methods	<ul style="list-style-type: none"> • WPA2 Personal and Enterprise • WPA3
Authentication protocols	<ul style="list-style-type: none"> • 802.1X EAP-TLS • EAP-TTLS/MSCHAPv2 • PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)
Encryption	<ul style="list-style-type: none"> • 64-bit and 128-bit WEP • TKIP • 128-bit AES-CCMP • 256-bit AES-GCMP
Product safety	<ul style="list-style-type: none"> • UL • C-UL • CB (IEC60950-1)
Management capabilities alerting	Support for Intel AMT
Government compliance	<ul style="list-style-type: none"> • FIPS 140-2 • FISMA
Client utility	Intel PRO/Set wireless software v22 and later
Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points
Wake on wireless	Supported
Wireless display	Native Miracast support by Windows
Wireless PAN standard	<ul style="list-style-type: none"> • Dual Mode Bluetooth 5.3 • BLE
Bluetooth data rates	Up to 3 Mbps

Table 33. Intel AX211 specifications (continued)

Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Operating temperature	0°C to + 50°C (Full performance at shield temperatures up to 80°C)
Storage temperature	-40°C to +70°C
Humidity	Up to 90% RH non-condensing (at temperatures of 25°C to 35°C)

 **NOTE:** *Other names and brands may be claimed as the property of others.

WWAN module

Intel XMM 7560 R Global LTE-Advanced

The following table lists the Intel XMM 7560 R Global LTE-Advanced specifications.

Table 34. Intel XMM 7560 R Global LTE-Advanced specifications

Form factor	M.2 3042 Key-B
Host interface	PCIe Gen2
Network standard	<ul style="list-style-type: none"> • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/BDS/Galileo
Transfer rate	<ul style="list-style-type: none"> • DL CAT16 - Up to 1 Gbps • UL - Up to 150 Mbps
Operating frequency bands	<ul style="list-style-type: none"> • LTE (B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41 (HPUE), B42, B43, B46 (receiver only), B48, B66, B71) • WCDMA/HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135 V to 4.4 V, typical 3.3 V
SIM card	Supported through external SIM slot
eSIM with Dual SIM (DSSA)	Supported (the availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements)
Antenna diversity	Supported
Radio On/Off	Supported
Wake on wireless	Supported
Normal operating temperature	-10°C to +55°C
Extended operating temperature	-20°C to +65°C
Antenna connector	<ul style="list-style-type: none"> • WWAN Antenna x 4 • Supports 4x4 MIMO

Intel 5000 Global 5G Modem

The following table lists the Intel 5000 Global 5G Modem specifications.

Table 35. Intel 5000 Global 5G Modem specifications

Form factor	M.2 3052 Key-B
Host interface	PCIe Gen3
Network standard	<ul style="list-style-type: none"> • NR FR1 (Sub6) FDD/TDD • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/Galileo/BDS/QZSS
Transfer rate	Up to 3Gbps DL/250 Mbps UL (3GPP Release15 NR/LTE CAT19)
Operating frequency bands	<ul style="list-style-type: none"> • NR(n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n77, n78, n79) • LTE (B1, B2, B3, B4, B5, B7, B8, B12, B13, B14, B17, B18, B19, B20, B25, B26, B28, B29, B30, B32, B34, B38, B39, B40, B41, B42, B43, B46, B48, B66) • WCDMA/HSPA+ (1, 2, 4, 5, 8)
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V
SIM card	Supported through external SIM slot
eSIM with Dual SIM (DSSA)	Supported <i>i</i> NOTE: The availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements.
Antenna diversity	Supported
Radio On/Off	Supported
Wake on wireless	Supported
Normal operating temperature	-10°C to +55°C
Extended operating temperature	-30°C to +75°C
Storage temperature	-40°C to +85°C
Antenna connector	<ul style="list-style-type: none"> • WWAN Antenna x 4 • Supports 4x4 MIMO

GPU—Integrated


Intel Iris X^e Graphics

The following table lists the Intel Iris X^e Graphics specifications.

Table 36. Intel Iris X^e Graphics specifications

Bus type	Integrated graphics <i>i</i> NOTE: Intel Iris X ^e Graphics uses the computers memory as video memory. <i>i</i> NOTE: System with single-channel memory is shown as Intel UHD Graphics in Intel Graphics Command Centre (IGCC)
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Table 36. Intel Iris X^e Graphics specifications (continued)

Memory type	Shared with system memory
Memory interface	N/A (Unified Memory Architecture)
Estimated maximum power consumption (TDP)	15 W/28 W, included in the CPU power
Maximum color depth	10 bits
Maximum vertical refresh rate	Up to 120 Hz  NOTE: The refresh rate depends on the resolution.
External ports	HDMI 2.0 port, DisplayPort over USB Type-C
Multiple display support	Up to 4 displays including laptop display

Intel UHD Graphics

The following table lists the Intel UHD Graphics specifications.

Table 37. Intel UHD Graphics specifications

Bus type	Integrated graphics
Memory type	Shared with system memory
Graphics level	i3/i5/i7: GT2 (UHD)
Estimated maximum power consumption (TDP)	15 W/28 W, included in the CPU power
Overlay planes	Yes
Operating systems graphics/ video API support	DirectX 12, OpenGL (4.5 from Intel CML POR)
Maximum vertical refresh rate	<ul style="list-style-type: none"> HDMI 2.0: 4096 x 2160 @ 60 Hz, 24bpp (HDMI or optional USB Type-C to HDMI dongle) Max Digital: 7680 x 4320 @ 60 Hz, 24bpp (mDP or DP 1.4 over Type-C Port)
External ports	<ul style="list-style-type: none"> HDMI 2.0 port DisplayPort over USB Type-C
Multiple display support	Up to four displays through DisplayPort Multi-Streaming Technology (MST)

Video port and resolution matrix

The following table lists the Video port and resolution matrix of your Latitude 5540.

Table 38. Video port and resolution matrix

Port type	USB Type-C Thunderbolt 4 with DisplayPort 1.4	HDMI 2.0 port
Maximum resolution—single display	7680 x 4320 at 60 Hz	4096 x 2160 at 60 Hz
Maximum resolution—dual MST	Two 4096 x 2304 at 60 Hz	Not applicable
Maximum resolution—triple MST	Three 4096 x 2304 at 60 Hz	Not applicable

Storage

M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 39. 256 GB SSD specifications

Capacity	256 GB
Height (approximate)	3.5 mm (0.17 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTTF	1.4M hours
Logical blocks	500,118,192
Power source	
Power consumption (reference only)	<ul style="list-style-type: none">● Idle: 5 mW (PS4)● Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 512 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 512 GB SSD specifications.

Table 40. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	3.5 mm (0.17 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTTF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	<ul style="list-style-type: none">● Idle: 5 mW (PS4)● Active: 4 W

Table 40. 512 GB SSD specifications (continued)

Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 1 TB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 1 TB SSD specifications.

Table 41. 1 TB SSD specifications

Capacity	1 TB
Height (approximate)	3.5 mm (0.17 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	2,000,409,264
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> ● Idle: 5 mW (PS4) ● Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 2 TB, PCIe NVMe Gen4 x4, Class 25 SSD

The following table lists the M.2 2230, 2 TB SSD specifications.

Table 42. 2 TB SSD specifications

Capacity	2 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)

Table 42. 2 TB SSD specifications (continued)

Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	4,000,797,360
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle: 5 mW (PS4) • Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Opal Self-Encrypting, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

Table 43. 256 GB SSD, self-encrypting drive specifications

Capacity	256 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	30.00 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	500,118,192
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> • Idle: 5 mW (PS4) • Active: 4 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 512 GB SSD specifications.

Table 44. 512 GB SSD specifications

Capacity	512 GB
Height (approximate)	2.38 mm (0.17 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	80.00 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> ● Idle: 5 mW (PS4 - L1.2) ● Active: 5 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

M.2 2280, 1 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 1 TB SSD specifications.

Table 45. 1 TB SSD specifications

Capacity	1 TB
Height (approximate)	2.38 mm (0.17 in.)
Width (approximate)	22.00 mm (0.87 in.)
Depth (approximate)	80.00 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	2,000,409,264
Power source	
Power consumption (reference only)	<ul style="list-style-type: none"> ● Idle: 5 mW (PS4 - L1.2) ● Active: 5 W
Environmental operating conditions (non-condensing)	
Temperature range	0°C to 70°C


Table 45. 1 TB SSD specifications (continued)

Relative humidity range	10% to 90%
Op shock	1500G
Environmental non-operating conditions (non-condensing)	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

Power adapter

The following table lists the power adapter specifications of your Latitude 5540.

Table 46. Power adapter specifications

Description	Option one	Option two	Option three
Type	<ul style="list-style-type: none"> 60 W AC adapter, USB-C 60 W AC adapter, USB-C, 2-pin 	65 W AC adapter	100 W AC adapter, USB-C
Power-adapter dimensions:			
Height	22 mm (0.86 in.)	28 mm (1.10 in.)	122 mm (4.80 in.)
Width	55 mm (2.16 in.)	112 mm (4.41 in.)	60 mm (2.36 in.)
Depth	66 mm (2.59 in.)	26.50 (1.04 in.)	26.50 (1.04 in.)
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC	100 VAC–240 VAC
Input frequency	50 Hz–60 Hz	50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)	1.70 A	1.70 A	1.70 A
Output current (continuous)	<ul style="list-style-type: none"> 20 V/3 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous) 	<ul style="list-style-type: none"> 20 V/3.25 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous) 	<ul style="list-style-type: none"> 20 V/5 A (Continuous) 15 V/3 A (Continuous) 9 V/3 A (Continuous) 5 V/3 A (Continuous)
Rated output voltage	20 VDC/15 VDC/9 VDC/5 VDC	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)	0°C to 40°C (32°F to 104°F)
Storage	-20°C to 70°C (-4°F to 158°F)	-40°C to 70°C (-40°F to 158°F)	-40°C to 70°C (-40°F to 158°F)
 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.			

Accessories

The following table lists the supported accessories on your Latitude 5540.

Table 47. Accessories

Accessories
Audio: Dell Pro Wireless Headset - WL5022
Adapters: Dell 7-in-1 USB-C Multiport Adapter - DA310
Speakerphone: Dell Speakerphone - SP3022
Carrying case: Dell EcoLoop Pro Backpack - CP5723
Power bank: Dell Notebook Power Bank Plus û USB C, 65Wh - PW7018LC
Dock: Dell Thunderbolt 4 Dock - WD22TB4
Mouse: Dell Mobile Pro Wireless Mice - MS5120W
Keyboard: Dell Pro Wireless Keyboard and Mouse - KM5221W
Monitor: <ul style="list-style-type: none">• Dell 27 USB-C HUB Monitor - P2723DE• Dell Collaboration 24 Monitor - C2423H
Webcam: Dell Pro Webcam - WB5023

Security

Software security

The following table lists the software security details of your Latitude 5540.

Table 48. Software security

Security options
McAfee Generic Build 30-day Commercial
McAfee Generic Build 30-day Commercial JPN

Fingerprint reader

The following table lists the fingerprint reader specifications of your Latitude 5540.

Table 49. Fingerprint reader specifications

Category	Goodix—GF5288WNC
Sensor technology	Capacitive sensing
Sensor resolution	500 dpi
Sensor pixel size	108 x 88
Dell ControlVault support	Yes
Dell ControlVault 3.0 support	Yes
Anti-spoofing	Yes
Template storage	Dell ControlVault HW protected and encrypted
Match on chip	Yes
FIPS 201 certified	No

Dell ControlVault 3.0

The following table lists the Dell ControlVault 3.0 specifications of your Latitude 5540.

Table 50. Dell ControlVault 3.0 specifications

Title	Description	Dell ControlVault 3.0
CPU technology	Not applicable	1 GHz ARM Cortex A7
RAM	Not applicable	1 MB
ROM	Not applicable	16 MB
TPM included	TPM enumeration included within ControlVault	No
Host Interface	Not applicable	USB 2.0
Fingerprint procession on chip	Fingerprint processing occurs within secure boundary of ControlVault	Yes
Windows WBF support	Support for Windows biometric framework when Fingerprint reader is attached	Yes
FIPS 140-2 level 3 complaint	Device complaint with FIPS 140-2 level 3 requirements	Yes
FIPS 140-2 level 3 certified	Device certified with FIPS 140-2 level 3 requirements	Yes

Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your Latitude 5540.

Table 51. Trusted Platform Module (TPM)

TPM: ST/ST33 HTPH2X32AHE4
SPI interface
TPM 2.0
FIPs 140-2 certificate

Thermal and acoustic improvements

The following table lists the thermal and acoustic improvements of your Latitude 5540.

Table 52. Thermal and acoustic improvements

New larger single heat pipe	Increase the heat capacity to improve thermal dissipation
Better system tuning/setting	Get higher performance and good user experience
Pro-OS enhanced thermal setting (Dynamic PL1)	Optimized boot-up time to balance thermals at start-up
Linear fan control	Fan speed ramp more smoothly for better user experience, no more significant acoustic changing
DDT SSD setting	Protecting the SSD device in high temperature and worse cases to prevent blue screen of death (BSOD)
IEC 60529 ingress protection: IP-54	<ul style="list-style-type: none"> • Dust protected • Protected against dripping water
Better acoustic experience	Enhance acoustic to 0.6 sone during daily working conditions and fan off when system is idle

System management features

Dell commercial systems come with a number of systems management options that are include by default for In-Band management with our Dell Client Command Suite. In-Band management meaning that the Operating System is functional and the device is connected to a network so that it can be managed. The Dell Client Command Suite of tools can be leveraged individually or with a systems management console like SCCM, LANDESK, KACE, etc.

We also offer Out-of-Band management as an option. Out-of-band management is when the system does not have a functional operating system or is turned off and you still want to be able to manage the system in that state.

Dell Client Command Suite for In-Band systems management

Dell Client Command Suite is a free toolkit available for download, for all Latitude Rugged tablets at dell.com/support, that automates and streamlines systems management tasks, saving time, money, and resources. It consists of the following modules that can be used independently, or with a variety of systems management consoles such as SCCM.

Dell Client Command Suite's integration with VMware Workspace ONE Powered by AirWatch, now allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

Dell Command | Deploy enables easy operating system (OS) deployment across all major OS deployment methodologies and provides numerous system-specific drivers that have been extracted and reduced to an OS-consumable state.

Dell Command | Configure is a graphical user interface (GUI) admin tool for configuring and deploying hardware settings in a pre-OS or post-OS environment, and it operates seamlessly with SCCM and Airwatch and can be self-integrated into LANDesk and KACE. Simply, this is all about the BIOS. Command | Configure allows you to remotely automate and configure over 150+ BIOS settings for a personalized user experience.

Dell Command | PowerShell Provider can do the same things as Command | Configure, but with a different method. PowerShell is a scripting language that allows customers to create a customized and dynamic configuration process.

Dell Command | Monitor is a Windows Management Instrumentation (WMI) agent that provides IT admins with an extensive inventory of the hardware and health-state data. Admins can also configure hardware remotely by using command line and scripting.

Dell Command | Update (end-user tool) is factory-installed and allows admins to individually manage and automatically present and install Dell updates to the BIOS, drivers, and software. Command | Update eliminates the time-consuming hunting and pecking process of update installation.

Dell Command | Update Catalog provides searchable metadata that allows the management console to retrieve the latest system-specific updates (driver, firmware or BIOS). The updates are then delivered seamlessly to end-users using the customer's systems management infrastructure that is consuming the catalog (like SCCM).


Dell Command | vPro Out of Band console extends hardware management to systems that are offline or have an unreachable OS (Dell exclusive features).

Dell Command | Integration Suite for System Center - This suite integrates all the key components of the Client Command Suite into Microsoft System Center Configuration Manager 2012 and Current Branch versions.

Out of Band Systems Management

Intel Standard Manageability option **must be configured in our factory at the time of purchase, as it is NOT field upgradable.** It offers out-of-band management and DASH compliance (https://registry.dmtf.org/registry/results/field_initiative_name%3A%22DASH%201.0%22).

ComfortView Plus

 **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.

Using the privacy shutter

1. Slide the privacy shutter to the left to access the camera lens.
2. Slide the privacy shutter to the right to cover the camera lens.

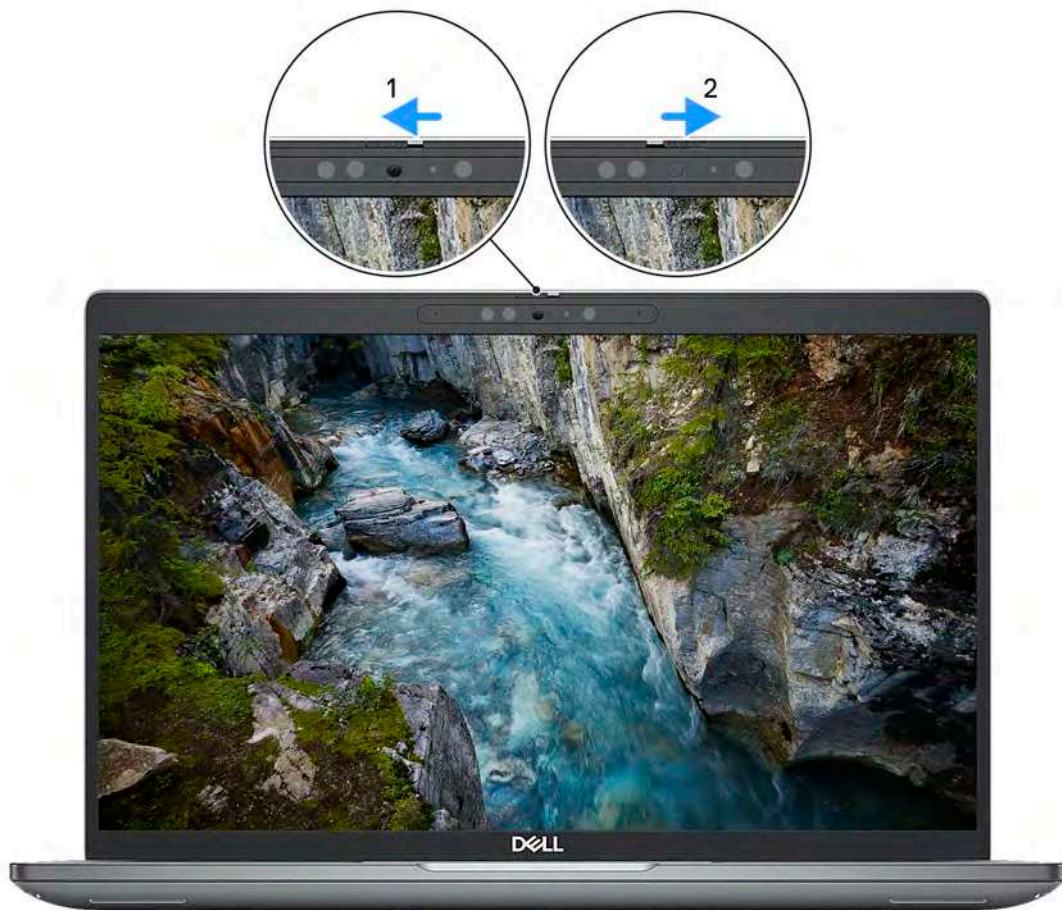


Figure 1. Camera shutter

Dell Optimizer

This section provides the Dell Optimizer specifications of your Latitude 5540.

On Latitude 5540 with Dell Optimizer, the following features are supported:

- **ExpressConnect**—Automatically joins the access point with the strongest signal, and directs bandwidth to conferencing applications when in use.
- **ExpressSign-in**—The Intel Context Sensing Technology's proximity sensor detects your presence to instantly wake up the computer and login using the IR camera and Windows Hello feature. Windows locks when you walk away.
- **ExpressResponse**—Prioritizes the most important applications. Applications open faster and perform better.
- **ExpressCharge**—Extends the battery runtime and improves battery performance by adapting to your patterns.
- **Intelligent Audio**—Collaborate like you're in the same room. Intelligent Audio enhances your audio quality and reduces background noises, so you can hear and be heard, creating a better conference experience for all.

For more information about configuring and using these features, see [Dell Optimizer User Guide](#).

Color, material, and finish

This section details the color, material, and finish (CMF) specifications of your Latitude 5540.



Table 53. CMF specifications

A Cover (Top)	<ul style="list-style-type: none"> Carbon Fiber Reinforced Plastic (CFRP) + Bi-Injection Antenna Cover Titan Gray Waterborne UV Monocoat (WUVM) 10+/-2 Gloss Units (GU)
B Cover (Bezel)	<ul style="list-style-type: none"> PC/ ABS + Elastomer i NOTE: PC/ABS: PC/ABS (polycarbonate / acrylonitrile-butadiene-styrene terpolymer blend) is a thermoplastic alloy of (PC) polycarbonate and (ABS) acrylonitrile-butadiene-styrene. Apollo, Resin Bezel: MT11520, 4+/-1 GU and Bumper: MT 11510, 3+/-1 GU
C Cover (Palmrest)	<ul style="list-style-type: none"> Plastic (Rustic Pewter, Resin) Titan Gray WUVM 10+/-2 GU
D Cover (Bottom)	<ul style="list-style-type: none"> Black CFRP PC+50%GF (For 2-in-1) Titan Gray WUVM 10+/-2 GU



i **NOTE:** Titan Gray, Cool Gray 9C = RGB 117 120 123 HEX/HTML 75787B CMYK 30 22 17 57

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 54. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	www.dell.com/support/windows
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 www.dell.com/support . For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer .
Dell knowledge base articles for a variety of computer concerns	<ol style="list-style-type: none"> 1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select Support > Knowledge Base. 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.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see 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.