

Specifications of Latitude 5540

Dimensions and weight

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

Table 3. 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 4. 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 Xe ^e Graphics	Intel Iris Xe ^e Graphics	Intel Iris Xe ^e Graphics	Intel Iris Xe ^e Graphics	Intel Iris Xe ^e Graphics	Intel Iris Xe ^e Graphics	Intel Iris Xe ^e Graphics

Chipset

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

Table 5. 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
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 6. 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 MHz• 4800 MHz
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 MHz, single-channel• 16 GB, 2 x 8 GB, DDR4, 3200 MHz, dual-channel• 16 GB, 1 x 16 GB, DDR4, 3200 MHz, single-channel• 32 GB, 2 x 16 GB, DDR4, 3200 MHz, dual-channel• 64 GB, 2 x 32 GB, DDR4, 3200 MHz, dual-channel• 8 GB, 1 x 8 GB, DDR5, 4800 MHz, single-channel

Table 6. Memory specifications (continued)

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

External ports

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

Table 7. 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 port
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 8. 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 9. 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 supported on your Latitude 5540.

Table 10. 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) (Wi-Fi 6 where Wi-Fi 6E is unavailable)
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	Bluetooth 5.3	Bluetooth 5.3

WWAN module

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

Table 11. 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
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) 	<ul style="list-style-type: none"> • SA: DL 4.67 Gbps / UL 1.25 Gbps

Table 11. WWAN module specifications (continued)

Description	Option one	Option two
	<ul style="list-style-type: none"> Up 150 Mbps UL 	<ul style="list-style-type: none"> 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
<p> 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.</p>		

Audio

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

Table 12. Audio specifications

Description	Values
Audio controller	Realtek Waves, MaxxAudio 12.0
Stereo conversion	Supported

Table 12. Audio specifications (continued)

Description		Values
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
- One M.2 2230 self-encrypting drive

Table 13. Storage specifications

Storage type	Interface type	Capacity
M.2 2230/2280 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 2 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 14. Media-card reader (standard offering)

Media supported (Maximum capacity supported will vary by Flash Media Types)	
Media Supported	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 15. 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"> United States and Canada: 99 keys United Kingdom: 100 keys Japan: 103 keys
Keyboard size	X= 18.05 mm key pitch Y= 18.05 mm key pitch
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) changing Function Key Behavior in 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 16. Secondary tasks of keyboard keys

Key combination for task	What the task does
fn and F1	Mutes audio
fn and F2	Decreases audio volume
fn and F3	Increases audio volume
fn and F4	Turn off/on the microphone
fn and F5	Changes the brightness of the backlit keyboard
fn and F6	Decreases display brightness
fn and F7	Increases display brightness
fn and F8	Switches to an external display
fn and F10	Prints screen (Screen capture)

Table 16. Secondary tasks of keyboard keys (continued)

Key combination for task	What the task does
fn and F11	Home (Moves cursor to beginning of the line)
fn and F12	End (Moves cursor to the end of the line)
fn and Esc	Locks the fn key on and off
fn and Ctrl	Opens the menu of the software application

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 17. 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
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 18. 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 19. 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–200 VAC	100 VAC–200 VAC	100 VAC–200 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:			

Table 19. Power adapter specifications (continued)

Description		Option one	Option two	Option three
	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 20. 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	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.)			
	Width	263 mm (10.35 in.)			
	Depth	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) 	<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)			
Battery operating time		Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.	Varies depending on operating conditions and can significantly reduce under certain power-intensive conditions.
Battery charging time (approximate)		<ul style="list-style-type: none"> From 0% up to 35% in 20 minutes (ExpressCharge Boost) 	<ul style="list-style-type: none"> 80% in 1 hour 2 hours to full 3 hours to full (Standard charge) 	<ul style="list-style-type: none"> From 0% up to 35% in 20 minutes 	<ul style="list-style-type: none"> 80% in 1 hour 2 hours to full 3 hours to full (Standard charge)
 NOTE: Control the charging time, duration, start and					

Table 20. Battery specifications (continued)

Description	Option one	Option two	Option three	Option four
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 .	<ul style="list-style-type: none"> 80% in 1 hour 2 hours to full 3 hours to full (Standard charge) 		(ExpressCharge Boost) <ul style="list-style-type: none"> 80% in 1 hour 2 hours to full 3 hours to full (Standard charge) 	
Coin-cell battery	CR2032	CR2032	CR2032	CR2032
<p>⚠ 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.</p> <p>⚠ 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.</p>				

Display

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

Table 21. 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	262,144 colors	262,144 colors	16,777,216 colors
Color gamut	45% NTSC	45% NTSC	100% sRGB
Pixels Per Inch (PPI)	141	141	141
Contrast ratio (typical)	700:1	700:1	800:1

Table 21. Display specifications (continued)

Description	Option one	Option two	Option three
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 22. Fingerprint reader specifications

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

Sensor

The following table lists the sensor of your Latitude 5540.

Table 23. 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 24. 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 25. 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 26. 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 27. 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 28. 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
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 29. Supported cards

Manufacturer	Card
HID	jCOP readertest3 A card (14443a)

Table 29. Supported cards (continued)

Manufacturer	Card
	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
	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 30. 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	Yes

Table 30. Contacted smart-card reader specifications (continued)

Title	Description	Dell ControlVault 3 smart-card reader
	readers into personal computer environments	
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 31. 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.

Dell Support policy

For information on Dell support policy, search in the Knowledge Base Resource at www.dell.com/support.

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](#).