

Latitude 7450

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 7450

Right

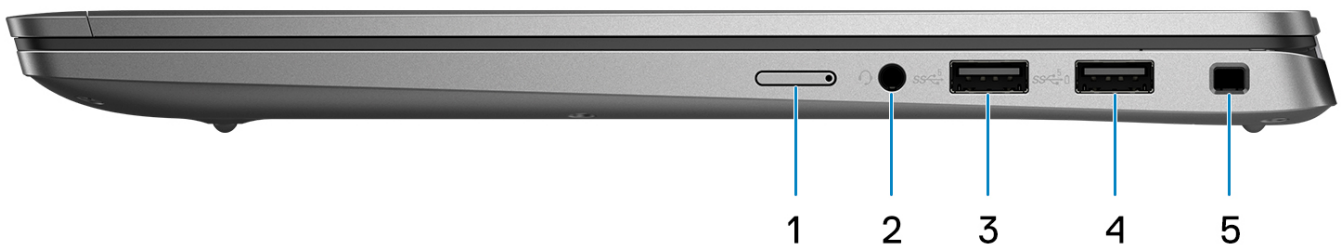


Figure 1. Right view

1. **NanoSIM slot (optional)**

Insert a nano-SIM card to connect to a mobile broadband network.

NOTE: Availability of the nano-SIM card slot depends on the region and configuration ordered.

2. **Universal audio port**

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.

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.

5. **Wedge-shaped lock slot**

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

Left



Figure 2. Left view

1. HDMI 2.1 port

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

2. Thunderbolt 4.0 with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery

Supports USB4, DisplayPort 2.1, 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 one of 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. Thunderbolt 4.0 with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery

Supports USB4, DisplayPort 2.1, 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 one of 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.

4. Battery-status/diagnostic light

Indicates the battery-charge status.

- Solid yellow-Battery charge is low.
- Blinking yellow-Battery charge is critical.
- Solid white-Battery is fully charged.

5. Smart card reader slot (optional)

Using smart card provides authentication in corporate networks.

Front



Figure 3. Image: Front view

1. Infrared camera (optional)

Enhances security when paired with Windows Hello face authentication.

2. Infrared LED

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

3. RGB Camera

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

4. Camera-status light

Turns on when the camera is in use.

5. Ambient-light sensor (ALS)

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

6. LCD panel

Provides visual output to the user.

Top

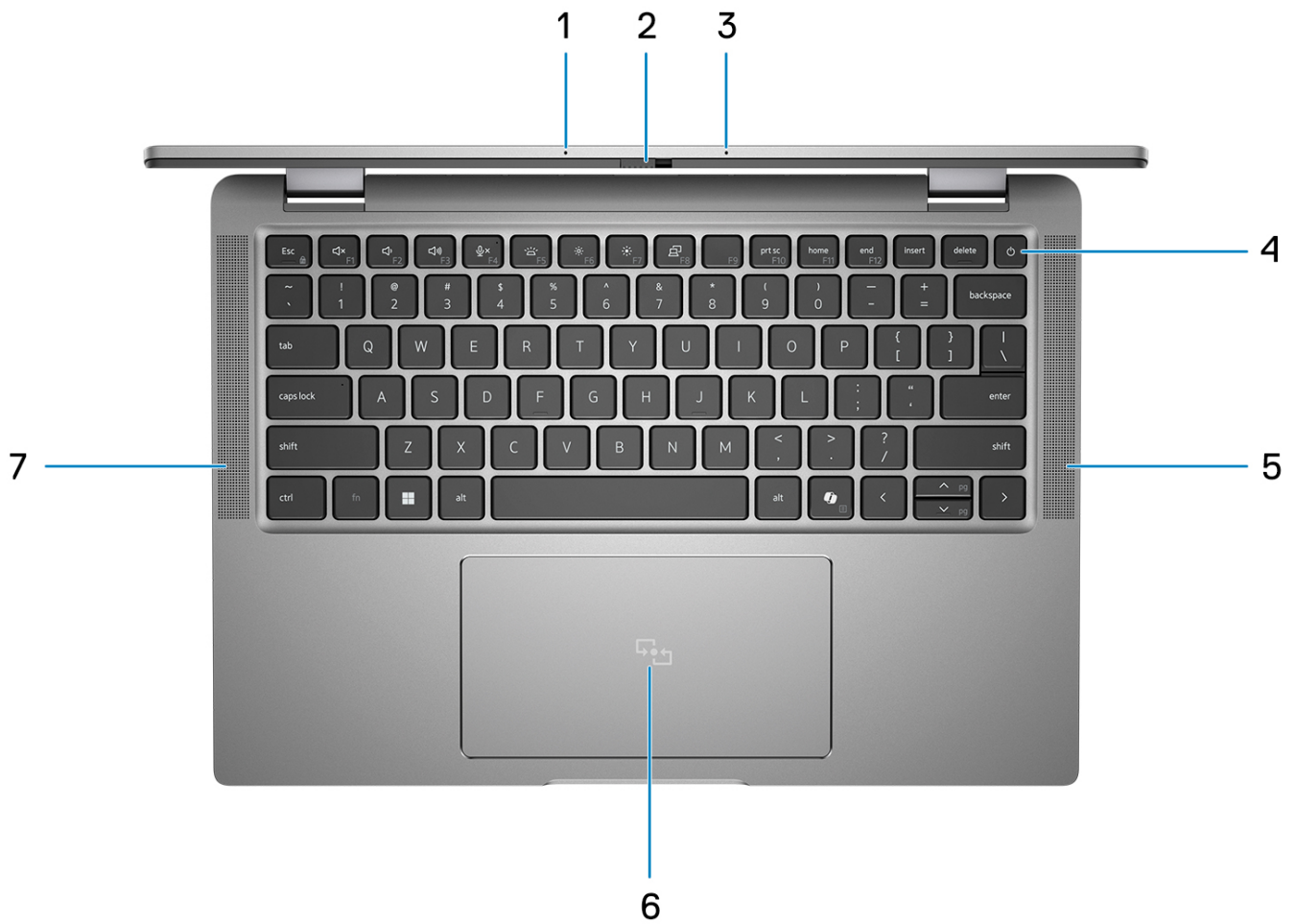


Figure 4. Image: Top view

1. Dual-array microphone

Provides digital sound input for audio recording and voice calls.

2. Camera shutter

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

3. Dual-array microphone

Provides digital sound input for audio recording and voice calls.

4. Power button with fingerprint reader (optional)

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 a 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.

i 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.

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

5. Speaker

Provides audio output.

6. **Clickpad with optional NFC/contactless smart-card reader**

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

7. **Speaker**

Provides audio output.

Bottom

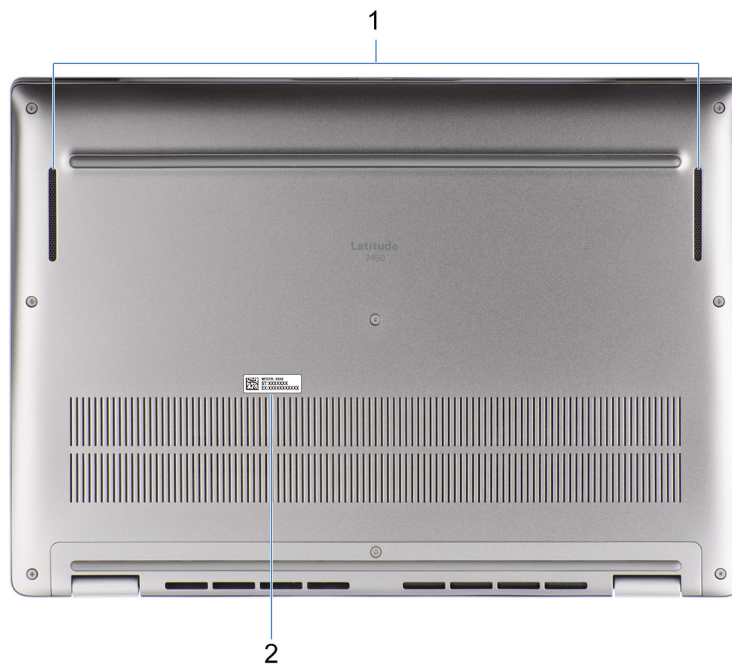


Figure 5. Image: Bottom view

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.

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.

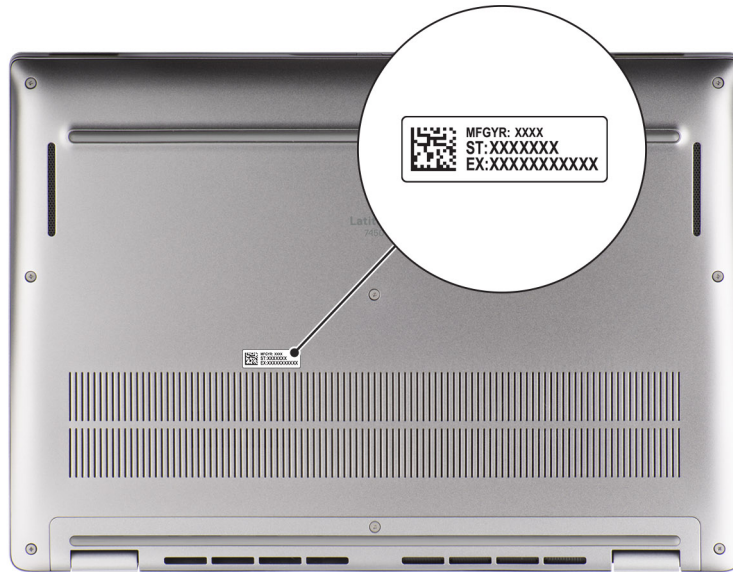


Figure 6. Image: Service Tag location

Modes

The following modes are applicable for your 2-in-1 computers.

Notebook



Figure 7. Image: Notebook mode

Tablet



Figure 8. Image: Tablet mode

Stand



Figure 9. Image: Stand mode

Tent



Figure 10. Image: Tent mode

Battery charge and status light

The following table lists the battery charge and status light behavior of your Latitude 7450.

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, except for a trickle power. The context data is written to a hard drive.
- S5 (OFF) - The system is in a shutdown state.

Specifications of Latitude 7450

Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 7450.

Table 2. Dimensions and weight

| Description | Laptop-Mainstream | 2-in-1 | Laptop-Ultralight |
|---|-----------------------|-----------------------|-----------------------|
| Height: | | | |
| Front height | 17.10 mm (0.67 in.) | 17.10 mm (0.67 in.) | 17.15 mm (0.68 in.) |
| Rear height | 18.21 mm (0.72 in.) | 18.21 mm (0.72 in.) | 17.95 mm (0.70 in.) |
| Width | 313.00 mm (12.32 in.) | 313.00 mm (12.32 in.) | 313.00 mm (12.32 in.) |
| Depth | 222.75 mm (8.77 in.) | 222.75 mm (8.77 in.) | 220.20 mm (8.67 in.) |
| Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability. | 1.33 kg (2.93 lb) | 1.53 kg (3.37 lbs.) | 1.05 kg (2.33 lbs.) |

Processor

The following table lists the details of the processors that are supported for your Latitude 7450.

Table 3. Processor

| Description | Option one | Option two | Option three | Option four | Option five | Option six |
|-------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Processor type | Intel Core Ultra 5 135H | Intel Core Ultra 5 125U | Intel Core Ultra 5 135U | Intel Core Ultra 7 155U | Intel Core Ultra 7 165H | Intel Core Ultra 7 165U |
| Intel vPro Enterprise support | YES | NO | YES | NO | YES | YES |
| Processor wattage | 28 W | 15 W | 15 W | 15 W | 28 W | 15 W |
| Processor core count | 14 | 12 | 12 | 12 | 16 | 12 |
| Processor thread count | 18 | 14 | 14 | 14 | 22 | 14 |
| Processor speed | Up to 4.6 GHz | Up to 4.3 GHz | Up to 4.4 GHz | Up to 4.8 GHz | Up to 5.0 GHz | Up to 4.9 GHz |
| P-Core base frequency | 1.7 GHz | 1.3 GHz | 1.6 GHz | 1.7 GHz | 1.4 GHz | 1.7 GHz |

Table 3. Processor (continued)

| Description | Option one | Option two | Option three | Option four | Option five | Option six |
|--------------------------------|--------------------|----------------|----------------|----------------|--------------------|----------------|
| P-Core Maximum turbo frequency | 4.6 GHz | 4.3 GHz | 4.4 GHz | 4.8 GHz | 5.0 GHz | 4.9 GHz |
| E-Core base frequency | 1.2 GHz | 0.8 GHz | 1.1 GHz | 1.2 GHz | 0.9 GHz | 1.2 GHz |
| E-Core Maximum turbo frequency | 3.6 GHz | 3.6 GHz | 3.6 GHz | 3.8 GHz | 3.8 GHz | 3.8 GHz |
| Processor cache | 18 MB | 12 MB | 12 MB | 12 MB | 24 MB | 12 MB |
| Integrated graphics | Intel Arc Graphics | Intel Graphics | Intel Graphics | Intel Graphics | Intel Arc Graphics | Intel Graphics |

Chipset

The following table lists the details of the chipset that is supported for your Latitude 7450.

Table 4. Chipset

| Description | Option one | Option two |
|----------------|-----------------------------|-----------------------------|
| Processors | Intel Core Ultra 5 | Intel Core Ultra 7 |
| Chipset | Integrated in the processor | Integrated in the processor |
| DRAM bus width | Dual-channel, 64-bit | Dual-channel, 64-bit |
| Flash EPROM | 64 MB | 64 MB |
| PCIe bus | Gen 4 | Gen 4 |

Operating system

Your Latitude 7450 supports the following operating systems:

- Windows 11 22H2
- Windows 11 23H2
- Ubuntu Linux 22.04 LTS

Memory

The following table lists the memory specifications of your Latitude 7450.

Table 5. Memory specifications


| Description | Values |
|--------------|---|
| Memory slots | Onboard memory  NOTE: The memory is not upgradable |
| Memory type | Dual-channel, LPDDR5x |

Table 5. Memory specifications (continued)

| Description | Values |
|---------------------------------|---|
| Memory speed | 6400 MT/s |
| Maximum memory configuration | 64 GB |
| Minimum memory configuration | 16 GB |
| Memory configurations supported | <ul style="list-style-type: none"> 16 GB: LPDDR5x, 6400 MT/s, dual-channel 32 GB: LPDDR5x, 6400 MT/s, dual-channel 64 GB: LPDDR5x, 6400 MT/s, dual-channel |

External ports

The following table lists the external ports on your Latitude 7450.


Table 6. External ports

| Description | Values |
|---------------------|---|
| USB ports | <ul style="list-style-type: none"> Two Thunderbolt™ 4 with DisplayPort™ Alt Mode/USB Type-C/USB4/Power Delivery Two USB 3.2 Gen 1 ports |
| Audio port | One Universal audio port |
| Video port/ports | One HDMI 2.1 port |
| Media-card reader | Not supported |
| Power-adaptor port | 60W/65W/100W adapter USB Type-C, 2-pin, 3-pin |
| Security-cable slot | One Wedge-shaped lock slot |
| Smart Card Reader | Contacted and Contactless + NFC (optional) |
| SIM slot | NanoSIM slot (optional) |

Internal slots

The following table lists the internal slots of your Latitude 7450.


Table 7. Internal slots

| Description | Values |
|-------------|--|
| M.2 | <ul style="list-style-type: none"> One M.2 2230 slot for solid-state drive One M.2 3042 slot for WWAN Card (optional) <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> |

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Latitude 7450.

Table 8. Wireless module specifications

| Description | Values |
|---------------------------|---|
| Model number | Intel BE200 (integrated on system board) |
| Transfer rate | 5760 Mbps |
| Frequency bands supported | 2.40 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 6E (WiFi 802.11ax) • Wi-Fi 7 (WiFi 802.11be) |
| Encryption | <ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP |
| Bluetooth wireless card | Bluetooth 5.4 wireless card |
| |  NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer. |

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module supported on your Latitude 7450.

Table 9. WWAN module specifications

| Description | Option one | Option two |
|--------------------|---|--|
| Model number | DW5825e (FM101R-GL), Qualcomm Snapdragon X12 global LTE-Advanced, CAT12 | DW5932e, 5G, Qualcomm Snapdragon X62 Global 5G Modem |
| Form Factor | M.2 3042 Key-B | M.2 3042 Key |
| Host Interface | PCIe Gen2 | PCIe Gen3 |
| Network Standard | LTE FDD/TDD, WCDMA/HSPA+, GPS/GLONASS/BDS/Galileo | LTE FDD/TDD, WCDMA/HSPA+, GNSS/Beidou 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 (Cat 12) • Up to 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) |

Table 9. WWAN module specifications (continued)

| Description | Option one | Option two |
|---|--|---|
| 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 4.4 V, Typical 3.3 V | DC 3.135 V to 4.40 V, Typical 3.30 V |
| SIM card | Supported through external SIM slot | Supported through external SIM slot |
| eSIM with Dual SIM (DSSA) | Supported | 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 (14°F to 131°F) Extended Operating temperature: -20°C to + 65°C (-4°F to 149°F) | <ul style="list-style-type: none"> Normal operating temperature: -10°C to + 55°C (14°F to 131°F) Extended Operating temperature: -30°C to +75°C (-22°F to 167°F) Storage temperature: -40°C to +85°C (-40°F to 185°F) |
| 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 International Mobile Station Equipment Identity (IMEI) number, search in the Knowledge Base Resource at www.dell.com/support.</p> | | |

Audio

The following table lists the audio specifications of your Latitude 7450.

Table 10. Audio specifications

| Description | Values |
|----------------------------|---------------------------------|
| Audio controller | Realtek ALC3281 |
| Stereo conversion | Stereo (2.0) |
| Internal audio interface | High definition audio interface |
| External audio interface | Universal Audio Jack |
| Number of speakers | Four |
| Internal-speaker amplifier | Supported |
| External volume controls | Supported |
| Speaker output: | |
| Average speaker output | 2W |

Table 10. Audio specifications (continued)

| Description | | Values |
|------------------|---------------------|-------------------------|
| | Peak speaker output | 2.5W |
| Subwoofer output | | Not supported |
| Microphone | | Camera module above LCD |

Storage

This section lists the storage options on your Latitude 7450.

Your computer supports the following storage configurations:

- One M.2 2230 solid state drive

The M.2 2230 solid state drive is the primary drive of your computer.



Table 11. Storage specifications

| Storage type | Interface type | Capacity |
|---|-------------------|-------------------------|
| M.2 2230 solid state drive | PCIe NVMe Gen 4x4 | 256 GB/512 GB/1 TB/2 TB |
| M.2 2230 solid state drive, Self-encrypting drive, Opal 2.0 | PCIe NVMe Gen 4x4 | 512 GB |

Keyboard

The following table lists the keyboard specifications of your Latitude 7450.

Table 12. Keyboard specifications

| Description | Values |
|--------------------|--|
| Keyboard type | Battery-saving Mini LED backlit AI hotkey keyboard  NOTE: Copilot in Windows is available only in approved markets. |
| Keyboard layout | QWERTY |
| Number of keys | <ul style="list-style-type: none">• United States and Canada: 79 keys• United Kingdom: 80 keys |
| Keyboard size | X=19.05 mm (0.75 in.) key pitch Y=18.05 mm (0.71 in.) key pitch |
| Keyboard shortcuts | 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.  NOTE: You can define the primary behavior of the function keys (F1–F12) changing Function Key Behavior in BIOS setup program. |

Camera

The following table lists the camera specifications of your Latitude 7450.

Table 13. Camera specifications

| Description | Option one | Option two | Option three |
|-----------------------------|---|---|--|
| Number of cameras | There is one camera option: • FHD RGB HDR Camera | There is one camera option: • FHD RGB-IR HDR | There is one camera option: • 5M RGB-IR |
| Camera type | 3.8 mm, 1080p at 30 fps, FHD RGB Webcam | 3.8 mm, 1080p at 30 fps, FHD RGB+IR Webcam with ALS | 4.4 mm, 1080p at 30 fps, 5M RGB+IR Webcam with ALS |
| Camera location | Front camera | Front camera | Front camera |
| Camera sensor type | Ambient light sensor | Ambient light sensor | Ambient light sensor does not support |
| Camera resolution: | | | |
| Still image | 1080p | 1080p | 1920p |
| Video | 1080p at 30 fps | 1080p at 30 fps | 1920p at 30 fps |
| Infrared camera resolution: | | | |
| Still image | Not supported | 640 x 360 | 640 x 480 |
| Video | Not supported | 640 x 360 at 15 fps | 640 x 480 at 15 fps |
| Diagonal viewing angle: | | | |
| Camera | 82 degrees | 80 degrees | 92 degrees |
| Infrared camera | Not supported | 86.6 degrees | 77.3 degrees |

Clickpad

The following table lists the clickpad specifications of your Latitude 7450.

Table 14. Clickpad specifications

| Description | Values |
|----------------------|--|
| Clickpad resolution: | |
| Horizontal | >300 dpi |
| Vertical | |
| Clickpad dimensions: | |
| Horizontal | 133 mm (5.23 in.) |
| Vertical | 72 mm (2.83 in.) |
| Clickpad gestures | For more information about clickpad gestures available on Windows, see the Microsoft knowledge base article at support.microsoft.com . |


Clickpad with collaboration controls

The following table lists the clickpad specifications of your Latitude 7450 Ultralight.

Table 15. Clickpad specifications

| Description | Values |
|--|---|
| Clickpad type | Collaboration Touchpad |
| Collaboration controls on clickpad | Four controls are available to control video, share screen, chat, and mute functions during conference calls. The controls are visible on the clickpad during any conference calls. Compatible with Zoom and Teams for work or school. |
| Collaboration controls settings | <ul style="list-style-type: none"> • Control brightness manually or configure icon brightness to automatically adjust to the ambient light. • Customize settings to activate collaboration controls with a single tap or a double tap. • Customize specific controls to be activated or deactivated. |
| Collaboration controls functionality | <ul style="list-style-type: none"> • Video icon: Turn on or off the camera. <ul style="list-style-type: none"> ○ White icon: The camera is turned on. ○ Red icon: The camera is off. Share screen icon: Tap once to share your screen. Tap again to stop sharing. Chat icon: Show or hide the chat window. The icon blinks when you receive a new chat message. Microphone icon: Turn on or mute the microphone. <ul style="list-style-type: none"> ○ White icon: The microphone is turned on. ○ Red icon: The microphone is muted. |
| Required apps for collaboration controls | <ul style="list-style-type: none"> • Dell Optimizer Version 4.2.0.0 and higher • Zoom Client Version 5.9.3 and higher • Teams for work or school (Windows desktop) Version 1.6.00.24078 and higher |
| Clickpad resolution: | |
| Horizontal | >300 dpi |
| Vertical | |
| Clickpad dimensions: | |
| Horizontal | 133 mm (5.23 in.) |
| Vertical | 72 mm (2.83 in.) |
| Clickpad gestures | For more information about clickpad gestures available on Windows, see the Microsoft Knowledge Base article at support.microsoft.com . |
| <p>NOTE: To enjoy the collaboration touchpad (CTP) controls feature on your keyboard, ensure that you have the latest versions of the Dell Optimizer app and Zoom or Teams for work or school installed on your computer. Dell Optimizer offers modular installation which allows you to select the modules you want to install. Install the collaboration touchpad module within the Dell Optimizer app to enjoy the functionality of collaboration controls. For more information, search for the Dell Optimizer User 's Guide in the Knowledge Base Resource at www.dell.com/support.</p> <p>NOTE: For more information about how to configure and use your collaboration controls, search for the Collaboration Touchpad Reference Guide in the Knowledge Base Resource at www.dell.com/support. Or, watch the video at www.dell.com/collaboration-touchpad.</p> | |


Table 15. Clickpad specifications (continued)

| Description | Values |
|---|--------|
|  NOTE: Collaboration Touchpad is supported only on Teams for work or school (Windows desktop) application. Teams for home and Teams on web are currently not supported. | |

Power adapter

The following table lists the power adapter specifications of your Latitude 7450.

Table 16. Power adapter specifications

| Description | Option one | Option two | Option three |
|--|--|---|--|
| Type | 60W AC adapter, USB Type-C | 65W AC adapter, USB Type-C | 100W AC adapter, USB Type-C |
| Power-adapter dimensions: | | | |
| Height | 22.00 mm (0.86 in.) | 28.00 mm (1.10 in.) | 26.50 mm (1.04 in.) |
| Width | 66.00 mm (2.59 in.) | 51.00 mm (2.01 in.) | 60.00 mm (2.36 in.) |
| Depth | 55.00 mm (2.16 in.) | 112.00 mm (4.41 in.) | 122.00 mm (4.80 in.) |
| Weight | 0.10 kg (0.23 lbs) | 0.20 kg (0.44 lbs) | 0.33 kg (0.73 lbs) |
| 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"> ● 5 V/3 A ● 9 V/3 A ● 15 V/3 A ● 20 V/3 A | <ul style="list-style-type: none"> ● 5 V/3 A ● 9 V/3 A ● 15 V/3 A ● 20 V/3.25 A | <ul style="list-style-type: none"> ● 5 V/3 A ● 9 V/3 A ● 15 V/3 A ● 20 V/5 A |
| Rated output voltage | <ul style="list-style-type: none"> ● 5 VDC ● 9 VDC ● 15 VDC ● 20 VDC | <ul style="list-style-type: none"> ● 5 VDC ● 9 VDC ● 15 VDC ● 20 VDC | <ul style="list-style-type: none"> ● 5 VDC ● 9 VDC ● 15 VDC ● 20 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 7450.

Table 17. Battery specifications

| Description | | Option one | Option two | Option three | Option four |
|-------------------------------------|-----------|---|--|---|---|
| Battery type | | 2-cell, 38 Wh, ExpressCharge Capable, Long Life Cycle, 3-year limited hardware warranty | 3-cell, 57 Wh, ExpressCharge Capable, Long Life Cycle, 3-year limited hardware warranty | 2-cell, 38 Wh, ExpressCharge, ExpressCharge Boost Capable | 3-cell, 57 Wh, ExpressCharge, ExpressCharge Boost Capable |
| Battery voltage | | 7.60 VDC | 11.40 VDC | 7.60 VDC | 11.40 VDC |
| Battery weight (maximum) | | 0.156 Kg (0.34 lb) | 0.227 kg (0.50 lb) | 0.156 Kg (0.34 lb) | 0.227 kg (0.50 lb) |
| Battery dimensions: | | | | | |
| | Height | 6.30 mm (0.24 in.) | 6.30 mm (0.24 in.) | 6.30 mm (0.24 in.) | 6.30 mm (0.24 in.) |
| | Width | 210.97 mm (8.30 in.) | 254.80 mm (10.03 in.) | 210.97 mm (8.30 in.) | 254.8 mm (10.03 in.) |
| | Depth | 79.80 mm (3.14 in.) | 79.80 mm (3.14 in.) | 79.80 mm (3.10 in.) | 79.8 mm (3.10 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) | -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 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) | | <p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 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 - 15°C maximum allowable charge | <p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 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 - 15°C maximum allowable charge time | <p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC</p> | <p>Express Charge Method:</p> <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 45°C normal express charge 46 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours <p>Standard Charge/ Predominately AC</p> |

NOTE: Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information about Dell Power Manager, search in the Knowledge Base Resource at www.dell.com/support.

Table 17. Battery specifications (continued)

| Description | Option one | Option two | Option three | Option four |
|--|---|--|--|--|
| | time from 0 to 100% RSOC is 4 hours <ul style="list-style-type: none"> 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins for Accelerated Charge | from 0 to 100% RSOC is 4 hours <ul style="list-style-type: none"> 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours Express Charge Boost Charge Method (Fast Charge for Initial 35%): <ul style="list-style-type: none"> 16 - 45°C target charge time from 0 to 35% RSOC is 20 mins for Accelerated Charge | User Charge Method: <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours | User Charge Method: <ul style="list-style-type: none"> 0 - 15°C maximum allowable charge time from 0 to 100% RSOC is 4 hours 16 - 50°C maximum allowable charge time from 0 to 100% RSOC is 3 hours |
| RTC coin-cell battery | Supported Battery life of rechargeable coin cell is 60 days | Supported Battery life of rechargeable coin cell is 60 days | Supported Battery life of rechargeable coin cell is 60 days | Supported Battery life of rechargeable coin cell is 60 days |
| <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 7450.

Table 18. Display specifications

| Description | Option one | Option two | Option three | Option four | Option five |
|---|--|----------------------------------|--|---|---|
| Display type | Full High Definition Plus (FHD+), Standard Power | Full High Definition Plus (FHD+) | Full High Definition Plus (FHD+) ultralight, Super Low Power (SLP), Low Blue Light | Quad High Definition Plus (QHD+), Super Low Power (SLP), Low Blue Light | Full High Definition Plus (FHD+) 2-in-1 |
| Display-panel technology | Wide Viewing Angle (WVA) | Wide Viewing Angle (WVA) | Wide Viewing Angle (WVA) | Wide Viewing Angle (WVA) | Wide-viewing angle (WVA) |
| Display-panel dimensions (active area): | | | | | |
| Height | 301.59 mm (11.87 in.) | 301.59 mm (11.87 in.) | 301.59 mm (11.87 in.) | 301.59 mm (11.87 in.) | 301.59 mm (11.87 in.) |
| Width | 188.50 mm (7.42 in.) | 188.50 mm (7.42 in.) | 188.50 mm (7.42 in.) | 188.50 mm (7.42 in.) | 188.50 mm (7.42 in.) |

Table 18. Display specifications (continued)

| Description | | Option one | Option two | Option three | Option four | Option five |
|-------------|---------------------------------|--|--|--|--|---------------------------------|
| | Diagonal | 355.65 mm (14.00 in.) | 355.65 mm (14.00 in.) | 355.65 mm (14.00 in.) | 355.65 mm (14.00 in.) | 355.65 mm (14.00 in.) |
| | Display-panel native resolution | 1920 x 1200 | 1920 x 1200 | 1920 x 1200 | 2560 x 1600 | 1920 x 1200 |
| | Luminance (typical) | 250 nit | 300 nit | 400 nit | 400 nit | 300 nit |
| | Megapixels | 2.30 | 2.30 | 2.30 | 4.096 | 2.30 |
| | Color gamut | 45% NTSC | 72% NTSC | 100% sRGB | 100% sRGB | 100% sRGB |
| | Pixels Per Inch (PPI) | 162 ppi | 162 ppi | 162 ppi | 216 ppi | 161 ppi |
| | Contrast ratio (typ) | 800:1 | 800:1 | 1200:1 | 1200:1 | 1200:1 |
| | Response time (max) | 35 ms | 35 ms | 35 ms | 35 ms | 35 ms |
| | Refresh rate | 60 Hz | 60 Hz | 60 Hz | 60 Hz | 60 Hz |
| | Horizontal view angle | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | +/- 88 degrees (min) |
| | Vertical view angle | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | <ul style="list-style-type: none"> 85 degrees (typical) 80 degrees (min) | +/- 88 degrees (min) |
| | Pixel pitch | 0.157 mm | 0.157 mm | 0.157 mm | 0.1178 mm | 0.157 mm |
| | Power consumption (maximum) | 3.20 W | 4.40 W | 2.75 W | 3.75 W | 2.90 W |
| | Anti-glare vs glossy finish | Anti-glare | Anti-glare | Anti-glare | Anti-glare | Anti-reflection and anti-smudge |
| | Touch options | No | Yes | No | Yes | Yes |
| | Color | 16.2 M | 16.2 M | 16.7 M | 16.7 M | 16.2 M |
| | Panel Type | 6 bit+FRC | 6 bit+FRC | True 8 bit | True 8 bit | 6 bit+FRC |

Fingerprint reader (optional)

The following table lists the fingerprint-reader specifications of your Latitude 7450.


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

Table 19. Fingerprint reader specifications

| Description | Option One | Option two |
|--------------------------------------|------------|------------|
| Fingerprint-reader sensor technology | Capacitive | Capacitive |
| Fingerprint-reader sensor resolution | 500 dpi | 508 dpi |

Table 19. Fingerprint reader specifications (continued)

| Description | Option One | Option two |
|--------------------------------------|---|--|
| Fingerprint-reader sensor pixel size | <ul style="list-style-type: none"> X: 108 Y: 88 | <ul style="list-style-type: none"> X: 96 Y: 96 |

Sensor

The following table lists the sensor of your Latitude 7450.

Table 20. Sensor

| Sensor support |
|---|
| Accelerometer (ST Micro LIS2DW12TR): On the base (system board) for both laptop and 2-in-1 computer |
| Accelerometer + Gyro (ST Micro LSM6DSOUSTR): On the hinge-up sensor board for 2-in-1 computer |
| Accelerometer (ST Micro LIS2DW12TR): On the hinge-up mid-board in upsell configuration of laptop MIPI RGB+IR camera |
| Ambient Light Sensor |
| E-compass (ST Micro LIS2MDLTR), only for 2-in-1 system |
| Proximity for a SAR compliance (for the WWAN module) Near Field Proximity Sensor |
| Hall Effect Sensor |

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Latitude 7450.

Table 21. GPU—Integrated

| Controller | Memory size | Processor |
|--------------------|----------------------|--|
| Intel Arc Graphics | Shared system memory | For Intel Core H processors and requires 128-bit (dual-channel) memory with minimum of 16 GB memory) |
| Intel Graphics | Shared system memory | Intel Core Ultra 5/7 |

Multiple display support matrix

The following table lists the multiple display support matrix for your Latitude 7450.

Table 22. Multiple display support matrix

| Graphics Card | Direct Graphics Controller Direct Output Mode | Supported external displays with computer internal display on | Supported external displays with computer internal display off |
|--------------------|---|---|--|
| Intel Arc Graphics | Not applicable | 3 | 4 |
| Intel Graphics | Not applicable | 3 | 4 |

Hardware security

The following table lists the hardware security of your Latitude 7450.

Table 23. Hardware security

| Hardware security |
|---|
| Trusted Platform Module (TPM) 2.0 discrete |
| FIPS 140-2 certification for TPM |
| Trusted Computing Group (TCG) Certification for TPM |
| Contacted smart card and Control vault 3 + |
| Contactless smart card, NFC, and Control vault 3 + |
| SED SSD NVMe, SSD, and HDD (Opal and non-Opal) per SDL |
| Fingerprint reader in the power button tied to Control vault 3 + |
| One wedge-shaped lock slot |
| SED (Opal 2.0 only - PCIe Interface) |
| Windows Hello - Fingerprint Reader (optional) |
| Mechanical privacy shutter for camera (only for metal laptops) |
| Control vault 3 + Advanced Authentication with FIPS 140-2 Level 3 Certification |

Smart-card reader

Contactless smart-card reader

This section lists the contactless smart-card reader specifications of your Latitude 7450. This module is only available in computers shipped with Smart-card readers.

Table 24. 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 |

Table 24. Contactless smart-card reader specifications (continued)

| Title | Description | Dell ControlVault 3 contactless smart-card reader with NFC |
|--|--|--|
| 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 |
| EMVCo Compliant | Compliant with EMVCO smart card standards as posted to www.emvco.com | Yes |
| EMVCo Certified | Formally certified based on EMVCO smart card standards | Yes |
| NFC Proximity operating system Interface | Enumerates NFP (Near Field Proximity) device for OS to use | Yes |
| PC/SC operating system 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 Microsoft WHCK | Yes |
| Dell ControlVault support | Device connects to Dell ControlVault for usage and processing | Yes |
| FIDO2 compliance | Dell ControlVault 3 Smart-card reader is compliant with the FIDO SPEC | No |


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

Table 25. Supported cards

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

Table 25. Supported cards (continued)

| Manufacturer | Card |
|--------------|--|
| | SCE6.0 non-FIPS 144K Dual + 1 K Mifare |
| | SCE7.0 FIPS 144 K |
| Oberthur | idOnDemand - OCS5.2 80 K |
| | 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 7450.

Table 26. 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, so forth.) | N/A |
| 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 using GSA | Device compliant with FIPS 201/PIV/HSPD-12 requirements | Yes |
| FIDO2 compliance | Dell ControlVault 3 Smart-card reader is compliant with the FIDO SPEC. | No |

Operating and storage environment

This table lists the operating and storage specifications of your Latitude 7450.

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

Table 27. 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 (49.86 ft to 10000 ft) | -15.2 m to 10668 m (49.86 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 the user environment.

† Measured using a 2 ms half-sine pulse.

Engineering specifications

Wireless module

Intel BE200, 2x2 MIMO, 320MHz, 5760 Mbps, 2.4/5/6 GHz, Wi-Fi 7 (WiFi 802.11 a/b/g/n/ac/ax/be), Bluetooth wireless card

The following table lists the Intel BE200 specifications.

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

Table 28. Intel BE200 specifications

| Intel BE200 specifications | Values |
|----------------------------------|---|
| Host interface | PCIe for Wi-Fi; USB/I2S for Bluetooth |
| Network standard | IEEE 802.11a/b/g/n/ac/ax/be, 320MHz channel use, MU-MIMO, new 6 GHz band |
| Wi-Fi Alliance certifications | Wi-Fi 7 Technology support, Wi-Fi CERTIFIED 6 with Wi-Fi 6E, Wi-Fi CERTIFIED a/b/g/n/ac, WMM, WMM-Power Save, WPA3, PMF, Wi-Fi Direct, Wi-Fi Agile Multiband, Wi-Fi Location R2 HW readiness NOTE: Other names and brands may be claimed as the property of others. |
| 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 688 Mbps • 5/6 GHz 80M: Up to 1.44 Gbps • 5/6 GHz 160M: Up to 2.88 Gbps • 5/6 GHz 320M: Up to 5.76 Gbps |
| Power consumption | Optimized power modes (sleep states) reduce power consumption during periods of inactivity. |
| Security methods | <ul style="list-style-type: none"> • WPA2 Transition mode • WPA3 Personal and Enterprise |
| 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"> • 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 |

Table 28. Intel BE200 specifications (continued)

| Intel BE200 specifications | Values |
|-------------------------------------|--|
| Government compliance | FIPS 140-3 |
| Client utility | Intel PRO/Set wireless software v23 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 wireless card 5.4 • 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 |
| Bluetooth output power | Power Class 1 |
| Operating temperature | 0°C to + 80°C (Adapter shield) |
| Storage temperature | -40°C to +70°C |
| Humidity | 50% to 90% RH non-condensing (at temperatures of 25°C to 35°C) |

WWAN module


Qualcomm Snapdragon SDX12 Global LTE-Advanced (DW5825e)

The following table lists specifications of the Qualcomm Snapdragon SDX12 Global LTE-Advanced (DW5825e) WWAN module.

Table 29. Qualcomm Snapdragon SDX12 Global LTE-Advanced (DW5825e) specifications

| Description | Value |
|---------------------------|--|
| Form factor | M.2 3042 Key-B |
| Host interface | USB 3.0/2.0 |
| Network standard | <ul style="list-style-type: none"> • LTE FDD/TDD • WCDMA/HSPA+ • GPS/GLONASS/Beidou/Galileo |
| Transfer rate | <ul style="list-style-type: none"> • Up to 600 Mbps DL (CAT6) • Up to 150 Mbps UL |
| 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, B38, B39, B40, B41, B42, B43, B48, B66, B71) • HSPA+ (1,2,4,5,6,8,19) |
| Power supply | DC 3.135 V to 4.4 V, Typical 3.3 V |
| SIM card | Supported through external SIM-card slot |
| eSIM with Dual SIM (DSSA) | Supported |

Table 29. Qualcomm Snapdragon SDX12 Global LTE-Advanced (DW5825e) specifications (continued)

| Description | Value |
|--------------------------------|--|
| |  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 |
| Antenna connector | <ul style="list-style-type: none"> • WWAN Main Antenna x 1 • WWAN Diversity Antenna x 1 |

Qualcomm Snapdragon X62 Global 5G Modem (DW5932e)

The following table lists specifications of the Qualcomm Snapdragon X62 Global 5G Modem (DW5932e) WWAN module.

Table 30. Qualcomm Snapdragon X62 Global 5G Modem (DW5932e) specifications


| Description | Value |
|--------------------------------|---|
| Form factor | M.2 3042 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/Beidou/Galileo |
| Transfer rate | <ul style="list-style-type: none"> • 5G NR: DL 3.5 Gbps/UL 900 Mbps • LTE: DL 1.6 Gbps (CAT19)/UL 211 Mbps (CAT18) • UMTS: DL DC-HSPA+ Rel8:42 Mbps/UL 5.76 Mbps |
| Operating frequency bands | <ul style="list-style-type: none"> • NR (n1, n2, n3, n5, n7, n8, n12, n13, n14, 18, n20, n25, n26, n28, n30, n38, n40, n41, n48, n53, n66, n70, n71, n75, n76, 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 3.63 V, Typical 3.3 V |
| SIM card | Supported through external SIM-card slot |
| eSIM with Dual SIM (DSSA) | Supported  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 | -30°C to +70°C |
| Extended operating temperature | -40°C to +85°C |

Table 30. Qualcomm Snapdragon X62 Global 5G Modem (DW5932e) specifications (continued)

| Description | Value |
|---------------------|---|
| Storage temperature | -40°C to +85°C |
| Antenna connector | <ul style="list-style-type: none"> • WWAN Main Antenna x 1 • WWAN Diversity Antenna x 1 • 4x4 MIMO Antenna x 2 |

GPU—Integrated

Graphics

Table 31. Intel Arc Graphics specifications



| Intel Arc Graphics specifications | Values |
|---|---|
| Bus type | Integrated graphics  NOTE: Intel Arc Graphics uses the computers memory as video memory. |
| Memory type | Shared system memory |
| Graphics level | i5/i7 |
| Memory interface | 64 Gbps, Unified Memory Architecture |
| Estimated maximum power consumption (TDP) | 28 W (H-series) included in the CPU power |
| Overlay planes | Yes |
| Operating systems graphics/ video API support | DirectX 12 Ultimate, OpenGL 4.6 |
| Maximum color depth | 10 bits |
| Maximum vertical refresh rate | Up to 120 Hz  NOTE: The refresh rate depends on the resolution. |
| External ports | HDMI 2.1 port, DisplayPort 2.1 over USB Type-C |
| Multiple display support | Up to four displays including laptop display. |

Table 32. Intel Graphics specifications



| Intel Graphics specifications | Values |
|---|---|
| Bus type | Integrated graphics  NOTE: Intel Arc Graphics uses the computers memory as video memory. |
| Memory type | Shared system memory |
| Graphics level | i5/i7 |
| Memory interface | 64 Gbps, Unified Memory Architecture |
| Estimated maximum power consumption (TDP) | 15 W (U-series)/28 W (H-series), included in the CPU power |
| Overlay planes | Yes |
| Operating systems graphics/ video API support | DirectX 12 Ultimate, OpenGL 4.6 |
| Maximum color depth | 10 bits |
| Maximum vertical refresh rate | Up to 120 Hz  NOTE: The refresh rate depends on the resolution. |

Table 32. Intel Graphics specifications (continued)

| Intel Graphics specifications | Values |
|-------------------------------|--|
| External ports | HDMI 2.1 port, DisplayPort 2.1 over USB Type-C |
| Multiple display support | Up to four displays including laptop display. |

Video port and resolution matrix

The following table lists the Video port and resolution matrix of your Latitude 7450.

Table 33. Video port and resolution matrix

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

Storage

M.2 2230, 256 GB, TLC PCIe NVMe Gen 4, Class 35 SSD

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

Table 34. 256 GB SSD specifications

| Description | Values |
|--|--|
| Capacity | 256 GB |
| Height (approximate) | 3.50 mm (0.13 in.) |
| Width (approximate) | 22 mm (0.87 in.) |
| Depth (approximate) | 30 mm (1.18 in.) |
| Interface type | PCIe Gen 4 |
| 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: 4W |
| 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 |

Table 34. 256 GB SSD specifications (continued)

| Description | Values |
|-------------------------|-----------|
| Relative humidity range | 5% to 95% |

M.2 2230, 512 GB, TLC PCIe NVMe Gen 4, Class 35 SSD

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

Table 35. 512 GB SSD specifications

| Description | Values |
|--|--|
| Capacity | 512 GB |
| Height (approximate) | 3.50 mm (0.13 in.) |
| Width (approximate) | 22 mm (0.87 in.) |
| Depth (approximate) | 30 mm (1.18 in.) |
| Interface type | PCIe Gen 4 |
| 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: 4W |
| 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, TLC PCIe NVMe Gen 4, Class 35 SSD

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

Table 36. 1 TB SSD specifications

| Description | Values |
|----------------------|-------------------------|
| Capacity | 1 TB |
| Height (approximate) | 3.50 mm (0.13 in.) |
| Width (approximate) | 22 mm (0.87 in.) |
| Depth (approximate) | 30 mm (1.18 in.) |
| Interface type | PCIe Gen 4 |
| Speed (maximum) | 64 Gb/s (up to 4 lanes) |
| MTBF | 1.4M hours |

Table 36. 1 TB SSD specifications (continued)

| Description | Values |
|--|--|
| Logical blocks | 2,000,409,264 |
| Power source | |
| Power consumption (reference only) | <ul style="list-style-type: none"> • Idle: 5 mW (PS4) • Active: 4W |
| 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 Gen 4 x4, Class 25 SSD

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

Table 37. 2 TB SSD specifications

| Description | Values |
|---|--|
| Capacity | 2 TB |
| Height (approximate) | 2.38 mm (0.09 in.) |
| Width (approximate) | 22 mm (0.87 in.) |
| Depth (approximate) | 30 mm (1.18 in.) |
| Interface type | PCIe Gen 4 |
| Speed (maximum) | 64 Gb/s (up to four 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: 4W |
| Environmental operating conditions (non-condensing) | |
| Temperature range | 0°C to 70°C |
| Relative humidity range | 10% to 90% |
| Op shock | 1500G |
| Environmental nonoperating conditions (non-condensing) | |
| Temperature range | -40°C to 70°C |
| Relative humidity range | 5% to 95% |

M.2 2230, 512 GB, PCIe NVMe Gen 4 x4, Opal Self-Encrypting, Class 35 SSD

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

Table 38. 512 GB SSD, self-encrypting drive specifications

| Description | Values |
|--|--|
| Capacity | 512 GB |
| Height (approximate) | 2.38 mm (0.09 in.) |
| Width (approximate) | 22 mm (0.87 in.) |
| Depth (approximate) | 30 mm (1.18 in.) |
| Interface type | PCIe Gen 4 |
| 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: 4W |
| 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% |


Power adapter

The following table lists the power adapter specifications of your Latitude 7450.

Table 39. Power adapter specifications

| Description | Option one | Option two | Option three |
|---------------------------|----------------------------|----------------------------|-----------------------------|
| Type | 60W AC adapter, USB Type-C | 65W AC adapter, USB Type-C | 100W AC adapter, USB Type-C |
| Power-adapter dimensions: | | | |
| Height | 22.00 mm (0.86 in.) | 28.00 mm (1.10 in.) | 26.50 mm (1.04 in.) |
| Width | 66.00 mm (2.59 in.) | 51.00 mm (2.01 in.) | 60.00 mm (2.36 in.) |
| Depth | 55.00 mm (2.16 in.) | 112.00 mm (4.41 in.) | 122.00 mm (4.80 in.) |
| Weight | 0.10 kg (0.23 lbs) | 0.20 kg (0.44 lbs) | 0.33 kg (0.73 lbs) |
| 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 39. Power adapter specifications (continued)

| Description | Option one | Option two | Option three |
|--|--|---|--|
| Output current (continuous) | <ul style="list-style-type: none"> • 5 V/3 A • 9 V/3 A • 15 V/3 A • 20 V/3 A | <ul style="list-style-type: none"> • 5 V/3 A • 9 V/3 A • 15 V/3 A • 20 V/3.25 A | <ul style="list-style-type: none"> • 5 V/3 A • 9 V/3 A • 15 V/3 A • 20 V/5 A |
| Rated output voltage | <ul style="list-style-type: none"> • 5 VDC • 9 VDC • 15 VDC • 20 VDC | <ul style="list-style-type: none"> • 5 VDC • 9 VDC • 15 VDC • 20 VDC | <ul style="list-style-type: none"> • 5 VDC • 9 VDC • 15 VDC • 20 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 7450.

Table 40. Accessories

| Accessories |
|--|
| <p>Audio:</p> <p>Dell Premier Wireless ANC Headset</p> |
| <p>Adapters:</p> <ul style="list-style-type: none"> • Dell 7-in-1 USB-C Multiport Adapter • Dell Mobile Adapter Speakerphone |
| <p>Carrying case:</p> <ul style="list-style-type: none"> • Dell EcoLoop Pro Backpack • Dell EcoLoop Pro Sleeve 11-14 • Dell EcoLoop Pro Sleeve 15-16 • Dell Premier Briefcase 15 • Dell Premier Slim Backpack 15 |
| <p>Dock:</p> <p>Dell Thunderbolt 4 Dock</p> |
| <p>Mouse:</p> <p>Dell Premier Rechargeable Wireless Mouse</p> |
| <p>Keyboard:</p> <p>Dell Premier Multi-Device Wireless Keyboard and Mouse</p> |
| <p>Stylus:</p> <p>Dell Premier Rechargeable Active Pen</p> |

Table 40. Accessories (continued)

| Accessories |
|---|
| Monitor: <ul style="list-style-type: none">• Dell Collaboration 27 USB-C Hub Monitor• Dell UltraSharp 27 4K USB-C Monitor |
| Webcam: Dell UltraSharp Webcam |
| Power bank: Dell Notebook Power Bank Plus û USB C, 65 Wh |

Security

Software security

The following table lists the software security details of your Latitude 7450.

Table 41. Software security

| Security options |
|--|
| Dell Client Command Suite: On-prem |
| Dell Client Command Suite: Cloud |
| Dell Optimizer |
| Dell SupportAssist for PCs |
| Dell SupportAssist OS Recovery (Excalibur) |
| Dell SafeBIOS - Off Host Verification |
| Dell SafeBIOS - Indicators of Attack |
| Dell SafeID |
| VMware Carbon Black Endpoint Standard |
| VMware Carbon Black Endpoint Advanced |
| VMware Carbon Black Endpoint Enterprise |
| Absolute Visibility |
| Absolute Control |
| Absolute Resilience |
| Dell Encryption Personal |
| Dell Encryption Enterprise |
| Netskope Cloud Access Security Broker (CASB) |
| Netskope Secure Web Gateway |
| Netskope Private Access |

Dell Control Vault 3 +

The following table lists the Dell ControlVault 3.0 specifications of your Latitude 7450.

Table 42. Dell Control Vault 3 + specifications

| Title | Description | Dell Control Vault 3 + |
|--------------------------------|---|------------------------|
| CPU technology | N/A | 1 GHz ARM Cortex A7 |
| RAM | N/A | 1 MB |
| ROM | N/A | 16 MB |
| TPM included | TPM enumeration included within Control vault + | No |
| Host Interface | N/A | USB 2.0 |
| Fingerprint procession on chip | Fingerprint processing occurs within secure boundary of Control vault + | 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 7450.

Table 43. Trusted Platform Module (TPM)

| |
|---|
| TPM: ST/ST33 HTPH2X32AHE4 |
| Trusted Platform Module (TPM) 2.0 discrete |
| FIPS 140-2 certification for TPM |
| Trusted Computing Group (TCG) certification for TPM |

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 cm 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.

Dell Optimizer

This section details the Dell Optimizer specifications of your Latitude 7450.

Dell Optimizer is a software application that intelligently optimizes the performance of your computer by using artificial intelligence and machine learning. Dell Optimizer dynamically configures your computer settings to optimize the performance of your applications. It improves the productivity, performance, and user experience through computer usage analysis and learning.

On Latitude 7450 with Dell Optimizer, the following features are supported:

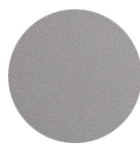
- Improves user experience through computer usage analysis and learning
- Faster application launch and seamless application transition
- Intelligent battery run-time extension
- Optimized Audio for best meeting experience
- Locks computer when walks away for enhanced security
- Faster computer wake-on-user approach
- Intelligently shows alerts
- Updates automatically to minimize disruption

For more information about configuring and using these features, search for the Dell Optimizer User Guide at www.dell.com/support.

Color, material, and finish

This section details the color, material, and finish (CMF) specifications of your Latitude 7450.

Mainstream



Ano Titan Gray

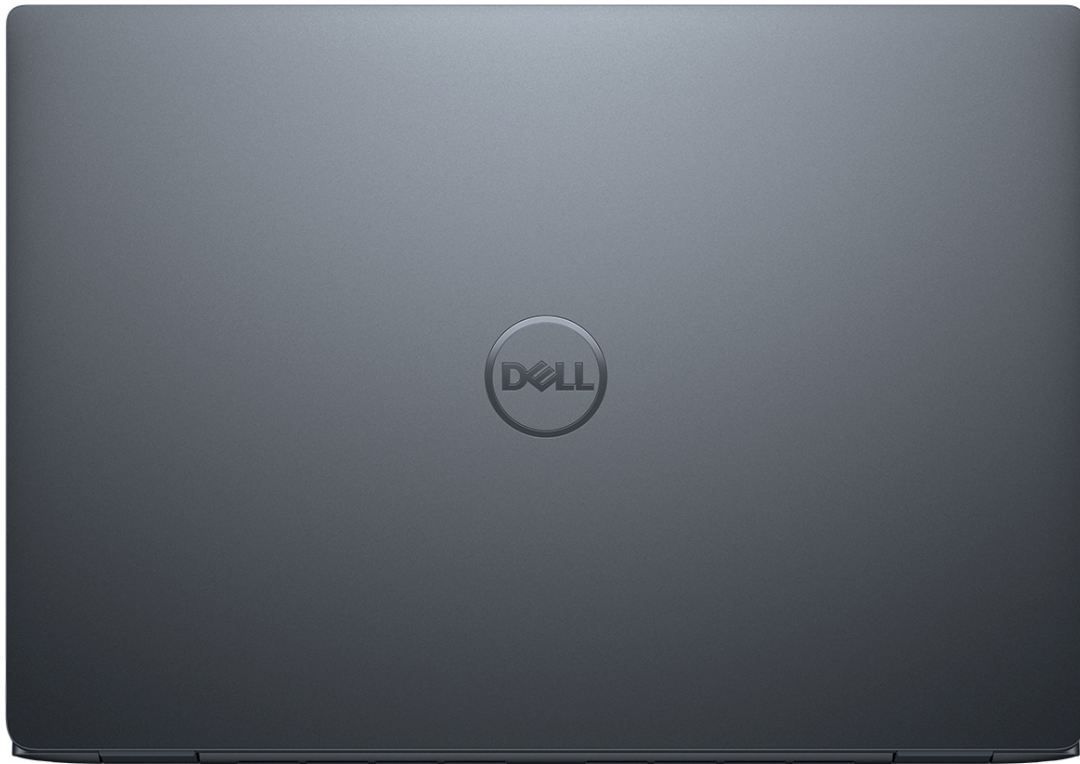
Table 44. CMF specifications

| Mainstream / Anodized Titan Gray | |
|---|--|
| A cover | <ul style="list-style-type: none"> ● Aluminum + Stamping ● Stamping + Bead blasting + Anodizing (<0.5 R hard EDGE) ● Ano Titan Gray BB Dull ● Bead blasting 11+/-3 GU |
| B Cover | <ul style="list-style-type: none"> ● Touch: <ul style="list-style-type: none"> ○ Single-Shot Plastic (Apollo, Resin) ○ WB Painted: Basecoat + Velvet Top Coat ○ Apollo Velvet WPUST |

Table 44. CMF specifications (continued)

| Mainstream / Anodized Titan Gray | |
|---|---|
| | <ul style="list-style-type: none"> ○ 5+/-1.5 GU ● Nontouch: <ul style="list-style-type: none"> ○ Single-Shot Plastic (Apollo, Resin) ○ WB Painted: Basecoat + Velvet Top Coat ○ Apollo Velvet WPUST ○ 5+/-1.5 GU |
| C cover | <ul style="list-style-type: none"> ● AL Stamping with Anodized ● Stamping + Bead blasting + Anodizing + CNC drilled speaker holes + Print I/O Icons (<0.5 R hard EDGE) ● Ano Titan Gray BB Dull ● Bead blasting 11+/-3 GU |
| D Cover | <ul style="list-style-type: none"> ● Aluminum + Stamping ● Stamping + Bead blasting + Anodizing (<0.5 R hard EDGE) + Print Model Name ● Ano Titan Gray BB Dull ● Bead blasting 11+/-3 GU |

Ultralight



River Matte

Table 45. CMF specifications

| Lightweight / Painted River | |
|------------------------------------|---|
| A cover | <ul style="list-style-type: none"> ● Magnesium ● As Molded + WB Painted: Primer (Black) + WPUCOB ● River Matte WPUCOB ● 5+/-1.5 GU |
| B Cover | <ul style="list-style-type: none"> ● Single-Shot Plastic (Apollo, Resin) ● WB Painted: Basecoat + Velvet Top Coat ● Apollo Velvet WPUST ● 5+/-1.5 GU |
| C cover | <ul style="list-style-type: none"> ● Magnesium + Insert Molding (Dell Standard Black Resin) ● WB Painted: Primer (Black) + WPUCOB + CNC Drilled Speaker Holes + Print I/O Icons ● River Matte WPUCOB ● 5+/-1.5 GU |
| D Cover | <ul style="list-style-type: none"> ● Magnesium + Insert Molding (Dell Standard Black Resin) ● WB Painted: Primer (Black) + WPUCOB + Print Model Name with PMS 9C ● River Matte WPUCOB ● 5+/-1.5 GU |

Keyboard shortcuts of Latitude 7450

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

Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. The symbol that is shown on the lower part of the key refers to the character that is typed out when the key is pressed. If you press shift and the key, the symbol that is shown on the upper part of the key is typed out. For example, if you press **2**, **2** is typed out; if you press **Shift + 2**, **@** is typed out.

The keys F1-F12 at the top row of the keyboard are function keys for multimedia control, as indicated by the icon at the bottom of the key. Press the function key to invoke the task represented by the icon. For example, pressing F1 mutes the audio (refer to the table below).

However, if the function keys F1-F12 are needed for specific software applications, multimedia functionality can be disabled by pressing **Fn + Esc**. Later, multimedia control can be invoked by pressing **Fn** and the respective function key. For example, mute audio by pressing **Fn + F1**.

NOTE: You can also define the primary behavior of the function keys (F1–F12) by changing **Function Key Behavior** in BIOS setup program.

Table 46. List of keyboard shortcuts

| Keyboard shortcut | Primary behavior |
|-------------------|--|
| F1 | Mute audio |
| F2 | Decrease volume |
| F3 | Increase volume |
| F4 | Mute mic |
| F5 | Click keyboard backlight (optional). NOTE: Non-backlight keyboards have the F10 function key without the backlight icon and do not support the toggle keyboard backlight function. NOTE: Toggle to cycle the keyboard backlight status through off, low-backlight, and high-backlight. |
| F6 | Decrease brightness |
| F7 | Increase brightness |
| F8 | Win+P |
| F9 | Null |
| F10 | Print screen |
| F11 | Home |
| F12 | End |

The **Fn** key is also used with selected keys on the keyboard to invoke other secondary functions.

Table 47. Secondary behavior

| Keyboard shortcut | Secondary behavior |
|-------------------|---|
| Fn + F1 | Operating system and application-specific F1 behavior |
| Fn + F2 | Operating system and application-specific F2 behavior |

Table 47. Secondary behavior (continued)


| Keyboard shortcut | Secondary behavior |
|--------------------------|--|
| Fn + F3 | Operating system and application-specific F3 behavior |
| Fn + F4 | Operating system and application-specific F4 behavior |
| Fn + F5 | Operating system and application-specific F5 behavior |
| Fn + F6 | Operating system and application-specific F6 behavior |
| Fn + F8 | Operating system and application-specific F8 behavior |
| Fn + F9 | Operating system and application-specific F9 behavior |
| Fn + F10 | Operating system and application-specific F10 behavior |
| Fn + F11 | Operating system and application-specific F11 behavior |
| Fn + F12 | Operating system and application-specific F12 behavior |
| Fn + PrtScr | Turn off or on wireless |
| Fn + B | Pause or Break |
| Fn + Insert | Sleep |
| Fn + S | Toggle scroll lock |
| Fn + H | Toggle between power and battery-status light or hard drive activity light |
| Fn + R | System request |
| Fn + Ctrl | Open the application menu |
| Fn + Esc | Toggle Fn-key lock |
| Fn + PgUp | Page up |
| Fn + PgDn | Page down |
| Fn + Home | Home |
| Fn + End | End |
| Copilot | <p>Launch Copilot in Windows</p> <p>NOTE: If Copilot in Windows is not available on your computer, the Copilot key launches Windows Search. For more information about Copilot in Windows, search in the Knowledge Base Resource at www.dell.com/support.</p> |

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 48. Self-help resources

| Self-help resources | Resource location |
|--|--|
| Information about Dell products and services | www.dell.com |
| Tips |  |
| Contact Support | In Windows search, type <code>Contact Support</code> , and press Enter. |
| Online help for operating system | www.dell.com/support/windows www.dell.com/support/linux |
| Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents. | Your Dell computer is uniquely identified using 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 about how to find the Service Tag for your computer, see Locate the Service Tag on your computer . |
| Dell knowledge base articles | <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 > Support Library. 3. In the Search field on the Support Library 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 of the services may vary depending on the country or region, and product.

 **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.