

# Latitude 7330 Rugged Extreme

## Setup and Specifications

## Notes, cautions, and warnings

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

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

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

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# Set up your Latitude 7330 Rugged Extreme

## About this task

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

## Steps

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



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

2. Finish operating system setup.

### For Ubuntu:

Follow the on-screen instructions to complete the setup. For more information about installing and configuring Ubuntu, search in the Knowledge Base Resource at [www.dell.com/support](http://www.dell.com/support).






### For Windows:

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

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

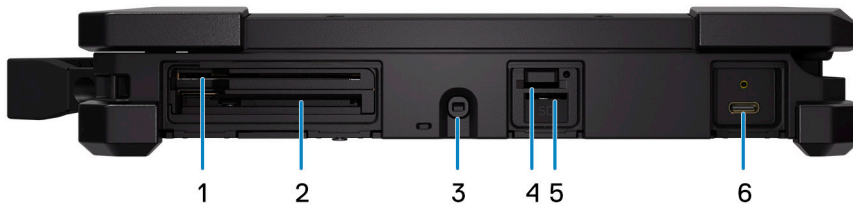
3. Locate and use Dell apps from the Windows Start menu—Recommended.

**Table 1. Locate Dell apps**

| Resources   | Description   |
|---|---|
|    | <p><b>Dell Product Registration</b><br/>Register your computer with Dell.</p>   |
|    | <p><b>Dell Help &amp; Support</b><br/>Access help and support for your computer.</p>  |
|    | <p><b>SupportAssist</b><br/>SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you need to make system updates. SupportAssist proactively checks the health of your system's hardware and software. When an issue is detected, the necessary system state information is sent to Dell to begin troubleshooting. SupportAssist is preinstalled on most of the Dell devices running Windows operating system. For more information, see SupportAssist for Home PCs User's Guide on <a href="http://www.dell.com/serviceabilitytools">www.dell.com/serviceabilitytools</a>.</p> <p><b>NOTE:</b> In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p> |
|    | <p><b>Dell Update</b><br/>Updates your computer with critical fixes and latest device drivers as they become available. For more information on using Dell Update, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>   |
|  | <p><b>Dell Digital Delivery</b><br/>Download software applications, which are purchased but not preinstalled on your computer. For more information on using Dell Digital Delivery, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>  |

## Views of Latitude 7330 Rugged Extreme

### Right



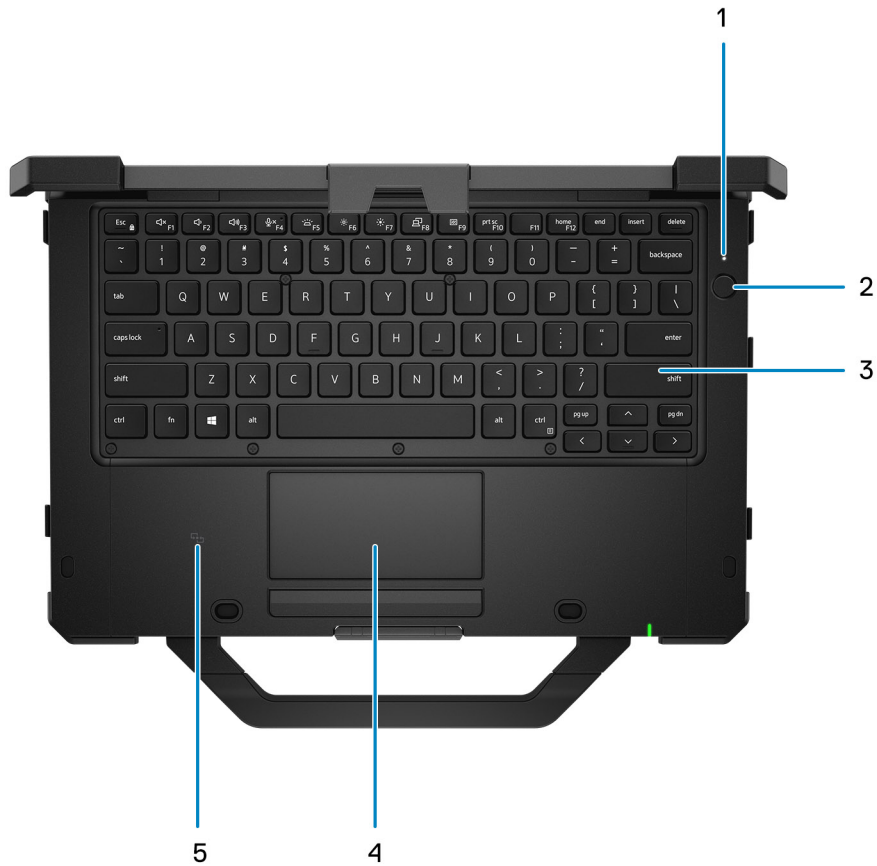
1. Smart-card reader slot (optional)
2. Express card slot (optional)
3. Stylus slot
4. Nano SIM card slot
5. microSD-card slot
6. Thunderbolt 4/USB 3.2 Gen 2 Type-C port with PowerDelivery 3.0 (optional)

### Left



1. Thunderbolt 4/USB 3.2 Gen 2 Type-C port with Power Delivery 3.0
2. Air vent
3. USB 3.2 Gen 1 port with PowerShare
4. USB 3.2 Gen 1 port
5. Headset (headphone and microphone combo) port

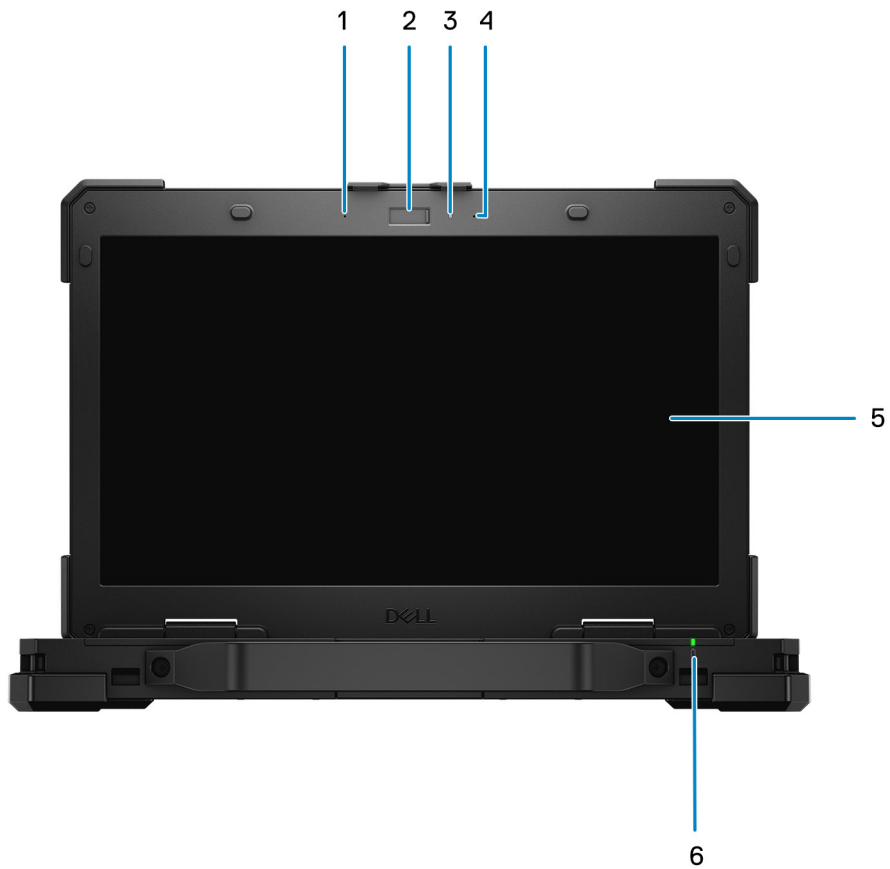
# Top



1. Power status light
2. Power button with optional fingerprint reader
3. Keyboard
4. Touchpad
5. Near Field Communication (NFC)

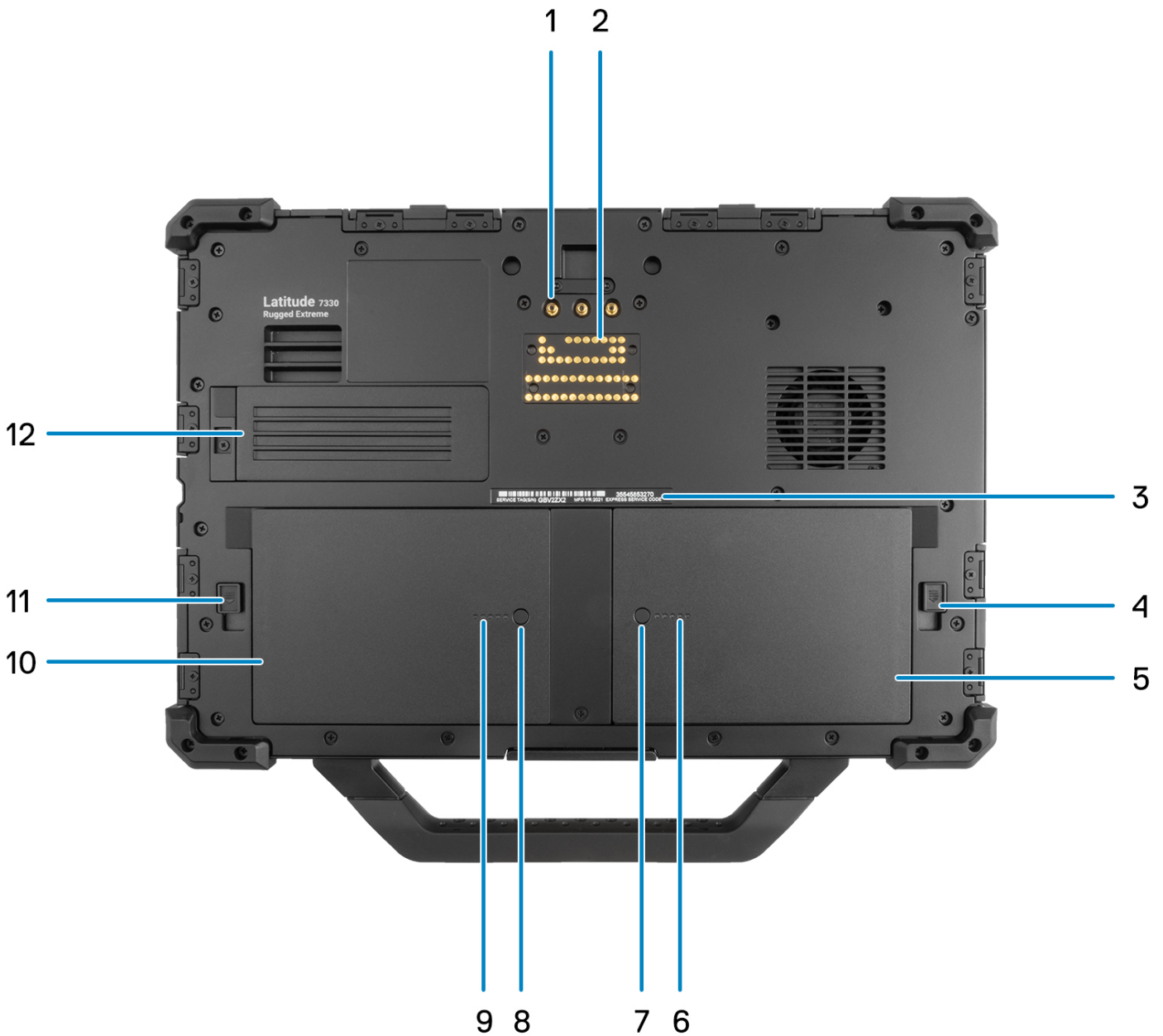


# Front



1. Microphone
2. Privacy shutter
3. LED/IR lens
4. Microphone
5. Display
6. Battery-status light/Diagnostic-status light

# Bottom



1. Radio frequency pass-through connectors
2. Docking port
3. Service tag label
4. Battery 1 latch
5. Battery 1
6. Battery 1 LED indicator
7. Battery 1 button
8. Battery 2 button
9. Battery 2 LED indicator
10. Battery 2
11. Battery 2 latch
12. Battery 2 latch

12. Solid-state drive door

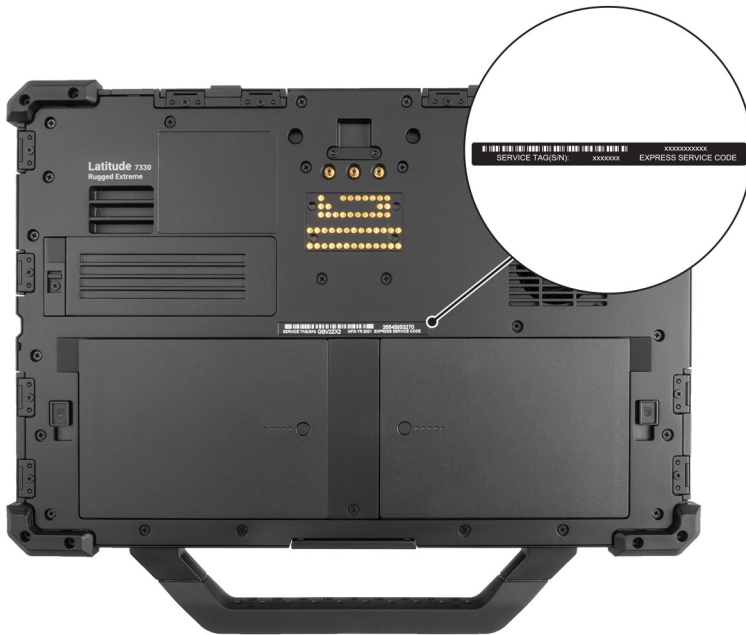
## Back



1. Optional I/O bay (RJ45/USB Type-A/Non-native Serial/Fischer USB 3.0 9-pin/Blank)
2. RJ45 Ethernet port
3. Kensington lock slot
4. Serial RS-232 port (Native serial)
5. HDMI 2.0 port

## Service Tag

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



# Battery charge and status light

The following table lists the battery charge and status light behavior of your Latitude 7330 Rugged Extreme.

**Table 2. 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   | Green                    | S0 - S5            | < Fully Charged      |
| Battery      | Off                      | S0 - S5            | 10%<RSOC <=100%      |
| Battery      | Solid Amber (590+/-3 nm) | S0                 | <= 10%               |


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

# Specifications of Latitude 7330 Rugged Extreme

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Latitude 7330 Rugged Extreme.

**Table 3. Dimensions and weight**

| Description      | Values  |
|------------------|---|
| Height:          |   |
| Front height     | 36.50 mm (1.43 in.)   |
| Rear height      | 36.50 mm (1.43 in.)   |
| Width            | 324.00 mm (12.75 in.)   |
| Depth            | 220.00 mm (8.66 in.)  |
| Weight (minimum) | 2.32 kg (5.11 lb)<br> <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability. |

## Processor

The following table lists the details of the processors supported by your Latitude 7330 Rugged Extreme.

**Table 4. Processor**

| Description            | Option one                                       | Option two  | Option three  |
|------------------------|--|---|---|
| Processor type         | 11 <sup>th</sup> Generation Intel Core i5-1135G7 | 11 <sup>th</sup> Generation Intel Core i5-1145G7 vPro | 11 <sup>th</sup> Generation Intel Core i7-1185G7 vPro |
| Processor wattage      | 28 W   | 28 W  | 28 W  |
| Processor core count   | 4  | 4   | 4   |
| Processor thread count | 8  | 8   | 8   |
| Processor speed        | Up to 4.20 GHz                                   | Up to 4.40 GHz  | Up to 4.80 GHz  |
| Processor cache        | 8 MB   | 8 MB  | 12 MB   |
| Integrated graphics    | Intel Iris X <sup>e</sup> Graphics               | Intel Iris X <sup>e</sup> Graphics                    | Intel Iris X <sup>e</sup> Graphics                    |

# Chipset

The following table lists the details of the chipset that is supported by your Latitude 7330 Rugged Extreme.

**Table 5. Chipset**

| Description    | Values                                       |
|----------------|--|
| Chipset        | Intel TGL UP3                                |
| Processor      | 11 <sup>th</sup> Generation Intel Core i5/i7 |
| DRAM bus width | 64-bit                                       |
| Flash EPROM    | 32 MB  |
| PCIe bus       | Up to Gen 4 for Integrated SSD               |

# Operating system


Your Latitude 7330 Rugged Extreme supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Ubuntu Linux 20.04 LTS, 64-bit
- Windows 10 Pro with Windows 11 License, 64-bit

# Memory

The following table lists the memory specifications of your Latitude 7330 Rugged Extreme.

**Table 6. Memory specifications**

| Description                     | Values  |
|---------------------------------|---|
| Memory slots                    | Integrated<br> <b>NOTE:</b> Memory not upgradeable   |
| Memory type                     | Dual-channel LPDDR4x  |
| Memory speed                    | 4266 MHz  |
| Maximum memory configuration    | 32 GB   |
| Minimum memory configuration    | 8 GB  |
| Memory size per slot            | 4 GB, 8 GB, 16 GB   |
| Memory configurations supported | <ul style="list-style-type: none"><li>• 8 GB, dual-channel, LPDDR4x, 4266 MHz</li><li>• 16 GB, dual-channel, LPDDR4x, 4266 MHz</li><li>• 32 GB, dual-channel, LPDDR4x, 4266 MHz</li></ul> |

## External ports

The following table lists the external ports of your Latitude 7330 Rugged Extreme.

**Table 7. External ports**

| Description         | Values  |
|---------------------|---|
| Network port        | One RJ45 Ethernet port  |
| USB ports           | <ul style="list-style-type: none"> <li>• One USB 3.2 Gen 1 port</li> <li>• One USB 3.2 Gen 1 port with PowerShare</li> <li>• One Thunderbolt 4/USB 3.2 Gen 2 Type-C port with PowerDelivery 3.0 (also functions as charging port)</li> <li>• One Thunderbolt 4/USB 3.2 Gen 2 Type-C port with PowerDelivery 3.0 (optional)</li> <li>• One Optional I/O bay (RJ45/USB Type-A/Non-native Serial/Fischer USB 3.0 9-pin/Blank)</li> </ul> |
| Audio port          | Headset (headphone and microphone combo) port   |
| Video port          | One HDMI 2.0 port   |
| I/O port            | <ul style="list-style-type: none"> <li>• One Serial RS-232 port (Native)</li> <li>• Nano SIM card slot</li> <li>• Smart card reader (optional)</li> <li>• Express card (optional)</li> </ul>  |
| Media-card reader   | One microSD-card slot   |
| Power-adaptor port  | One USB Type-C port   |
| Security-cable slot | One Kensington lock slot  |

## Internal slots

The following table lists the internal slots of your Latitude 7330 Rugged Extreme.

**Table 8. Internal slots**

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

# Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Latitude 7330 Rugged Extreme.


**Table 9. Ethernet specifications**

| Description   | Values           |
|---------------|------------------|
| Model number  | Intel i219LM     |
| Transfer rate | 10/100/1000 Mbps |

# Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your Latitude 7330 Rugged Extreme.

**Table 10. Wireless module specifications**

| Description               | Option one   | Option two   |
|---------------------------|--|--|
| Model number              | Intel AX210  | Qualcomm WCN6856-DBS   |
| Transfer rate             | Up to 2400 Mbps  | Up to 3571 Mbps  |
| Frequency bands supported | 2.4 GHz/5 GHz/6 GHz  | 2.4 GHz/5 GHz/6 GHz  |
| Wireless standards        | 802.11ax (Wi-Fi 6E)  | 802.11ax (Wi-Fi 6E)  |
| Encryption                | <ul style="list-style-type: none"> <li>64-bit and 128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>   | <ul style="list-style-type: none"> <li>64-bit and 128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul> |
| Bluetooth wireless card   | 5.2  | 5.2  |
|                           |  <b>NOTE:</b> 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 that is supported on your Latitude 7330 Rugged Extreme.

**Table 11. WWAN module specifications**

| Description               | Option one   | Option two  |
|---------------------------|--|---|
| Model number              | DW5821e, Qualcomm Snapdragon SDX20 Global Gigabit LTE  | DW5930e, Qualcomm Snapdragon SDX55 5G   |
| Transfer rate             | Up to 1.0 Gbps DL/150 Mbps UL (Cat 16)   | Up to 3 Gbps DL/250 Mbps UL (3GPP Release15 NR/LTE CAT20)   |
| Frequency bands supported | <ul style="list-style-type: none"> <li>LTE: (1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 38, 39, 40, 41, 42, 43, 46, 66)</li> <li>HSPA+: (1, 2, 4, 5, 6, 8, 9, 19)</li> </ul> | <ul style="list-style-type: none"> <li>NR: (1, 2, 3, 5, 7, 8, 12, 20, 28, 38, 41, 66, 71, 77, 78, 79)</li> <li>LTE: 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 46, 48, 66)</li> </ul> |



**Table 11. WWAN module specifications (continued)**

| Description  | Option one   | Option two   |
|--|--|--|
|  |  | <ul style="list-style-type: none"> <li>HSPA+: (1, 2, 4, 5, 6, 8, 9, 19)</li> </ul>   |
| Wireless standards   | <ul style="list-style-type: none"> <li>LTE FDD/TDD</li> <li>WCDMA/HSPA+</li> <li>GPS/GLONASS/Beidou/Galileo</li> </ul> | <ul style="list-style-type: none"> <li>NR FR1(Sub6) FDD/TDD</li> <li>LTE FDD/TDD</li> <li>WCDMA/HSPA+</li> <li>GPS/GLONASS/Beidou/Galileo</li> </ul> |
| Encryption   | Not supported  | Not supported  |
| Global Navigation Satellite System (GNSS)  | Supports GPS, and GLONASS<br>Location sensor and NMEA  | Supports GPS, and GLONASS<br>Location sensor   |
| <p><b>NOTE:</b> For instructions on how to find your computer's IMEI (International Mobile Station Equipment Identity) number, see the knowledge base article <a href="https://www.dell.com/support">000143678</a> at <a href="https://www.dell.com/support">www.dell.com/support</a>.</p> |  |  |

## Optional GPS module

Concurrent reception of GPS/QZSS, GLONASS, BeiDou with Industry leading – 167 dBm navigation sensitivity combining low power consumption and high sensitivity

**Table 12. GPS Module Specifications**

| <b>u-blox NEO-M9N module</b>     |  |
|----------------------------------|--|
| Interface                        | UART (default), SPI, I2C, USB  |
| <b>Performance</b>               |  |
| Receiver type                    | 92-channel u-blox M9 engine<br>GPS L1 C/A, QZSS L1 C/A/S, GLONASS L10F, BeiDou B1I, Galileo E1 B/C<br>SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN  |
| Navigation update rate (maximum) | 25 Hz (four concurrent GNSS modes)   |
| Position accuracy                | 2.0 m CEP (four concurrent GNSS modes)   |
| Supported protocol               | <ul style="list-style-type: none"> <li>UBX</li> <li>NMEA 4.10 (default), 4.0, 2.3, and 2.1</li> <li>RTCM 3.3</li> </ul>  |
| Security features                | <ul style="list-style-type: none"> <li>Anti-jamming</li> <li>Anti-spoofing</li> <li>Configuration lockdown</li> <li>Message integrity</li> <li>Secure boot</li> <li>JTAG debug port (locked by default)</li> </ul> |
| Baud rate                        | 38400  |
| <b>Absolute maximum ratings</b>  |  |
| Power supply voltage             | -0.5 V (minimum)<br>3.6 V (maximum)  |
| Storage temperature              | -40°C to 85°C (-40°F to 185°F)   |
| <b>Operating conditions</b>      |  |

**Table 12. GPS Module Specifications (continued)**

| <b>u-blox NEO-M9N module</b> |                                    |
|------------------------------|------------------------------------|
| Power supply voltage         | 2.7 V (minimum)<br>3.6 V (maximum) |
| Operating temperature        | -40°C to 85°C (-40°F to 185°F)     |

## Audio

The following table lists the audio specifications of your Latitude 7330 Rugged Extreme.

**Table 13. Audio specifications**

| <b>Description</b>         |                        | <b>Values</b>                                 |
|----------------------------|------------------------|---|
| Audio controller           |                        | Realtek ALC3254                               |
| Stereo conversion          |                        | Supported                                     |
| Internal audio interface   |                        | High definition audio                         |
| External audio interface   |                        | Headset (headphone and microphone combo) port |
| Number of speakers         |                        | Two   |
| Internal-speaker amplifier |                        | Supported (audio codec integrated)            |
| External volume controls   |                        | Keyboard shortcut controls                    |
| Speaker output:            |                        |   |
|                            | Average speaker output | 2 W   |
|                            | Peak speaker output    | 2.5 W   |
| Subwoofer output           |                        | Not supported                                 |
| Microphone                 |                        | Dual-array microphones                        |

## Storage

This section lists the storage options on your Latitude 7330 Rugged Extreme.

Your computer supports one of the following configurations:

- One M.2 2230/2280 solid-state drive (Class 35 or Class 40)


**Table 14. Storage specifications**

| <b>Storage type</b>        | <b>Interface type</b>                               | <b>Capacity</b> |
|----------------------------|---|-----------------|
| M.2 2230 solid-state drive | PCIe 3 Gen x4 NVMe, Class 35                        | Up to 1 TB      |
| M.2 2280 solid-state drive | PCIe 4 Gen x4 NVMe, Class 40                        | Up to 2 TB      |
| M.2 2280 solid-state drive | PCIe 4 Gen x3 NVMe, Class 40, self-encrypting drive | 512 GB          |

# Media-card reader

The following table lists the media cards supported by your Latitude 7330 Rugged Extreme.


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

| Description  | Values  |
|--|---|
| Media-card type  | microSD-card  |
| Media-cards supported  | <ul style="list-style-type: none"> <li>Secure Digital (MS)</li> <li>Secure Digital High Capacity (SDHC)</li> <li>Secure Digital Extended Capacity (SDXC)</li> <li>Multi-Media Card (MMC)</li> </ul> |
| <p> <b>NOTE:</b> The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.</p> |   |

# Keyboard

The following table lists the keyboard specifications of your Latitude 7330 Rugged Extreme.

**Table 16. Keyboard specifications**

| Description        | Values   |
|--------------------|--|
| Keyboard type      | <ul style="list-style-type: none"> <li>Standard, non-backlit keyboard</li> <li>Standard, RGB backlit keyboard</li> <li>Rubberized Sealed RGB backlit keyboard</li> </ul>   |
| Keyboard layout    | <ul style="list-style-type: none"> <li>QWERTY</li> <li>AZERTY</li> <li>Kanji</li> </ul>  |
| Number of keys     | <ul style="list-style-type: none"> <li>United States and Canada: 82 keys</li> <li>United Kingdom: 83 keys</li> <li>Brazil: 84 keys</li> <li>Japan: 86 keys</li> </ul>  |
| Keyboard size      | <p>X= 19.05 mm key pitch</p> <p>Y= 19.05 mm key pitch</p>  |
| 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> <b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) by changing <b>Function Key Behavior</b> in BIOS setup program.</p> |

## Camera (optional)

The following table lists the camera specifications of your Latitude 7330 Rugged Extreme.

**Table 17. Camera specifications**

| Description                 |                 | Option 1                  | Option 2                    |
|-----------------------------|-----------------|---------------------------|-----------------------------|
| Number of cameras           |                 | One                       | One                         |
| Camera type                 |                 | HD RGB camera             | FHD IR camera               |
| Camera location             |                 | Front camera              | Front camera                |
| Camera sensor type          |                 | CMOS sensor technology    | CMOS sensor technology      |
| Camera resolution:          |                 |                           |                             |
|                             | Still image     | 0.92 megapixel            | 2.0 megapixels              |
|                             | Video           | 1280 x 720 (HD) at 30 fps | 1920 x 1080 (FHD) at 30 fps |
| Infrared camera resolution: |                 |                           |                             |
|                             | Still image     | NA                        | 0.23                        |
|                             | Video           | NA                        | 640 x 360                   |
| Diagonal viewing angle:     |                 |                           |                             |
|                             | Camera          | 87 degrees                | 87.60 degrees               |
|                             | Infrared camera | NA                        | 87.60 degrees               |

## Touchpad

The following table lists the touchpad specifications of your Latitude 7330 Rugged Extreme.


**Table 18. Touchpad specifications**

| Description          |            | Values   |
|----------------------|------------|--|
| Touchpad resolution: |            |  |
|                      | Horizontal | 1196   |
|                      | Vertical   | 600  |
| Touchpad dimensions: |            |  |
|                      | Horizontal | 99.50 mm (3.92 in.)  |
|                      | Vertical   | 49.80 mm (1.96 in.)  |
| Touchpad gestures    |            | For more information about touchpad gestures available on Windows, see the Microsoft Knowledge Base article at <a href="https://support.microsoft.com">support.microsoft.com</a> . |

# Power adapter

The following table lists the power adapter specifications of your Latitude 7330 Rugged Extreme.

**Table 19. Power adapter specifications**

| Description  | Option one  | Option two  |
|--|---|---|
| Type   | Pecos 65 W AC adapter, USB-C  | 90 W AC adapter, USB-C  |
| Power-adapter dimensions:  |   |   |
| Height   | 28.00 mm (1.10 in.)   | 22.00 mm (0.87 in.)   |
| Width  | 51.00 mm (2.01 in.)   | 66.00 mm (2.60 in.)   |
| Depth  | 112.00 mm (4.41 in.)  | 130.00 mm (5.12 in.)  |
| Input voltage  | 100 VAC to 240 VAC  | 100 VAC to 240 VAC  |
| Input frequency  | 50 Hz to 60 Hz  | 50 Hz to 60 Hz  |
| Input current (maximum)  | 1.5 A   | 1.8 A   |
| Output current (continuous)  | <ul style="list-style-type: none"> <li>● 20 V/3.25 A</li> <li>● 15 V/3 A</li> <li>● 9 V/3 A</li> <li>● 5 V/3 A</li> </ul> | <ul style="list-style-type: none"> <li>● 20 V/4.50 A</li> <li>● 15 V/3 A</li> <li>● 9 V/3 A</li> <li>● 5 V/3 A</li> </ul> |
| Rated output voltage   | <ul style="list-style-type: none"> <li>● 20 VDC</li> <li>● 15 VDC</li> <li>● 9 VDC</li> <li>● 5 VDC</li> </ul>            | <ul style="list-style-type: none"> <li>● 20 VDC</li> <li>● 15 VDC</li> <li>● 9 VDC</li> <li>● 5 VDC</li> </ul>            |
| Temperature range:   |   |   |
| Operating  | 0°C to 40°C (32°F to 104°F)   | 0°C to 40°C (32°F to 104°F)   |
| Storage  | -40°C to 70°C (-40°F to 158°F)  | -40°C to 70°C (-40°F to 158°F)  |
|  <b>CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.</b> |   |   |

# Battery

The following table lists the battery specifications of your Latitude 7330 Rugged Extreme.

**Table 20. Battery specifications**

| Description              | Option one                                  | Option two                                    |
|--------------------------|---|---|
| Battery type             | 3-cell, 53.5 Wh, lithium-ion, ExpressCharge | 3-cell, 53.5 Wh, lithium-ion, Long Life Cycle |
| Battery voltage          | 11.4 VDC                                    | 11.4 VDC                                      |
| Battery weight (maximum) | 0.265 kg (0.584 lb)                         | 0.265 kg (0.584 lb)                           |
| Battery dimensions:      |   |   |

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

| Description  |           | Option one  | Option two  |
|--|-----------|---|---|
|  | Height    | 15.3 mm (0.60 in.)  | 15.3 mm (0.60 in.)  |
|  | Width     | 86.29 mm (3.39 in)  | 86.29 mm (3.39 in)  |
|  | Depth     | 128.44 mm (5.05 in.)  | 128.44 mm (5.05 in.)  |
| Temperature range:   |           |   |   |
|  | Operating | 0°C to 45°C (32°F to 113°F)   | 0°C to 45°C (32°F to 113°F)   |
|  | Storage   | -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. |
| Battery charging time (approximate)  |           | Two hours   | Two hours   |
| <p><b>i</b> <b>NOTE:</b> Control the charging time, duration, start and end time, and so on using the Dell Power Manager application. For more information on the Dell Power Manager see, <i>Me and My Dell</i> on <a href="http://www.dell.com">www.dell.com</a>.</p> <p><b>i</b> <b>NOTE:</b> For more information on charge behavior and charge time, see <a href="#">Battery life specifications</a>.</p>  |           |   |   |
| Coin-cell battery  |           | CR2032  | CR2032  |
| <p><b>⚠ CAUTION:</b> 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><b>⚠ CAUTION:</b> 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> |           |   |   |

## Battery life specifications

The following table lists the battery life specifications of your Latitude 7330 Rugged Extreme.

**Table 21. Battery life specifications**

| Description                   | Values |                |
|-------------------------------|--------|----------------|
| Battery capacity (Wh)         | 53.5   | 107 (53.5 x 2) |
| Estimated MM14 run-time (hrs) | 11.7   | 23.3           |
| Estimated MM18 run-time (hrs) | 7.0    | 14.0           |

## Charge behavior

The initial charge level is set using software:

- Express charge boost
- Charge battery 1 to 35% (Express charge boost)
- Charge battery 1 to 80% (Express charge)

- Charge battery 2 to 35% (Express charge boost)
- Charge battery 2 to 80% (Express charge)
- Top off battery 1 to 100% (Express charge)
- Top off battery 2 to 100% (Express charge)

## Discharge behavior

The initial discharge level is set using software:

- Battery 2 will discharge down to 10%
- Battery 1 will discharge down to 10%
- Battery 2 will discharge down to 3%
- Battery 1 will discharge down to 3%
- Battery 2 will discharge down to 1%
- Battery 1 will discharge down to 0%

## Charge time

**Table 22. Battery charge time**

| Number of batteries installed | Express charge boost 35%   | Express charge 80% | Express charge 100% | Standard charge 80% | Standard charge 100% |
|-------------------------------|--|--------------------|---------------------|---------------------|----------------------|
| 1                             | 20 min   | 1 hr               | 2 hr                | 2 hr                | 4 hr                 |
| 2                             | 80 min (Battery1 Express charge followed by Battery2 Express charge boost) | 2 hr               | 4 hr                | 4 hr                | 8 hr                 |

## Display

The following table lists the display specifications of your Latitude 7330 Rugged Extreme.

**Table 23. Display specifications**

| Description                             | Values                                |
|---|---------------------------------------|
| Display type                            | 13.3-inch, Full High Definition (FHD) |
| Display-panel technology                | Wide-viewing angle (WVA)              |
| Display-panel dimensions (active area): |                                       |
| Height                                  | 165.24 mm (6.50 in.)                  |
| Width                                   | 293.76 mm (11.56 in.)                 |
| Diagonal                                | 337.04 mm (13.26 in.)                 |
| Display-panel native resolution         | 1920 x 1080                           |
| Luminance (typical)                     | 1400 nits                             |
| Megapixels                              | 16.7                                  |
| Color gamut                             | sRGB 100% typical                     |
| Pixels Per Inch (PPI)                   | 166                                   |

**Table 23. Display specifications (continued)**

| <b>Description</b>          | <b>Values</b>    |
|-----------------------------|------------------|
| Contrast ratio (min)        | 1500:1           |
| Response time (max)         | 35 ms            |
| Refresh rate                | 60 Hz            |
| Total view angle            | 178 degrees      |
| Horizontal view angle       | 89 degrees       |
| Vertical view angle         | 89 degrees       |
| Pixel pitch                 | 0.153 x 0.153 mm |
| Power consumption (maximum) | 7.5 W            |
| Anti-glare vs glossy finish | Anti-glare       |
| Touch options               | Yes              |

## Fingerprint reader on the power button (optional)

The following table lists the fingerprint-reader specifications of your Latitude 7330 Rugged Extreme.

**Table 24. Fingerprint reader specifications**

| <b>Description</b>                   | <b>Values</b>     |
|--------------------------------------|-------------------|
| Fingerprint-reader sensor technology | Capacitive        |
| Fingerprint-reader sensor resolution | 363 dpi           |
| Fingerprint-reader sensor area       | 6.90 mm x 5.25 mm |
| Fingerprint-reader sensor pixel size | 0.07 mm           |

## Sensor

The following table lists the sensor of your Latitude 7330 Rugged Extreme.

**Table 25. Sensor**

| <b>Sensor</b>      |
|--------------------|
| Hall Effect sensor |



## GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Latitude 7330 Rugged Extreme.

**Table 26. GPU—Integrated**

| Controller                         | Memory size          | Processor                                    |
|------------------------------------|----------------------|--|
| Intel Iris X <sup>e</sup> Graphics | Shared system memory | 11 <sup>th</sup> Generation Intel Core i5/i7 |

## Multiple display support matrix

**Table 27. Integrated graphics card**

| Graphics Card                           | Intel Iris X <sup>e</sup> graphics   |
|---|--|
| Video ports on Integrated Graphics Card | <ul style="list-style-type: none"> <li>1 x USB Type-C port + 1 x USB Type-C port (optional)</li> <li>1 x HDMI2.0 port</li> </ul> |
| Number of displays                      | 4  |

## Hardware security

The following table lists the hardware security of your Latitude 7330 Rugged Extreme.

**Table 28. Hardware security**

| Hardware security   |
|---|
| Kensington lock slot  |
| Mechanical camera privacy shutter (optional with camera config)                                       |
| Trusted Platform Module (TPM) 2.0 discrete  |
| FIPS (Federal Information Processing Standards) 140-2 certification for Trusted Platform Module (TPM) |
| Trusted Computing Group (TCG) Certification for TPM   |
| Self-Encrypting Drive (SED), Opal 2.0 only - PCIe Interface   |
| ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification                          |
| Optional Fingerprint Reader with Control Vault 3 (optional)   |
| Optional Contacted Smart-Card and Control Vault 3 (optional)  |
| Optional Contactless Smart-Card, NFC, and Control Vault 3 (optional)                                  |
| Statement of Non-Volatility   |
| Chassis Intrusion Detection   |
| Dell Trusted Device Agent Validation  |

# Smart-card reader

The following table lists the smart-card reader specifications that are supported by your Latitude 7330 Rugged Extreme.

**Table 29. Contactless smart-card reader**

| Title             | Description                                      |
|-------------------|--|
| Type              | FIPS 201 Contacted/Contactless Smart-card reader |
| ISO certification | ISO14443A  |

# Contacted smart-card reader

The following table lists the contacted smart-card reader specifications supported by your Latitude 7330 Rugged Extreme.

**Table 30. Contacted smart-card reader**


| Title                                    | Description  | Dell ControlVault 3 Smart-card reader |
|--|--|---------------------------------------|
| ISO 7816 -3 Class A Card Support         | Reader capable of reading 5 V powered smart-card   | Yes                                   |
| ISO 7816 -3 Class B Card Support         | Reader capable of reading 3 V powered smart-card   | Yes                                   |
| ISO 7816 -3 Class C Card support         | Reader capable of reading 1.8 V powered smart-card   | Yes                                   |
| 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 <a href="http://www.emvco.com">www.emvco.com</a> | Yes                                   |
| EMVCo Certified                          | Formally certified based on EMVCO smart-card standards   | Yes                                   |
| PC/SC OS interface                       | Personal Computer/Smart-Card specification for integration of hardware readers into personal computer environments                         | Yes                                   |
| CCID driver compliance                   | Common driver support for Integrated Circuit Card Interface Device for OS level drivers.   | Yes                                   |
| Windows Certified                        | Device certified by WHCK   | Yes                                   |
| FIPS 201 (PIV/HSPD-12) Compliant via GSA | Device compliant with FIPS 201/PIV/HSPD-12 requirements  | Yes                                   |
| 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.)                                   | N/A                                   |
| Dell ControlVault support                | Device connects to Dell ControlVault for usage and processing  | Yes                                   |

## Contactless smart-card reader

The following table lists the contactless smart-card reader specifications supported by your Latitude 7330 Rugged Extreme.

**Table 31. Contactless smart-card reader**

| Title                                   | Description  | Dell ControlVault 3 Contactless Smart-card reader with NFC |
|---|--|--|
| Felica Card Support                     | Reader and software capable of supporting Felica contactless cards   | Yes  |
| Prox (Proximity) (125 kHz) Card support | Reader and software capable of supporting Prox/Proximity/125 kHz contactless cards                                 | No   |
| 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 32. Supported cards**

| Manufacturer | Card                             | Supported |
|--------------|----------------------------------|-----------|
| HID          | jCOP readertest3 A card (14443a) | Yes       |

**Table 32. Supported cards (continued)**


| Manufacturer | Card                                  | Supported |
|--------------|---------------------------------------|-----------|
|              | 1430 1L                               |           |
|              | DESFire D8H                           |           |
|              | iClass (Legacy)                       |           |
|              | iClass SEOS                           |           |
| NXP/Mifare   | Mifare DESFire 8K White PVC Cards     | Yes       |
|              | Mifare Classic 1K White PVC Cards     |           |
|              | NXP Mifare Classic S50 ISO Card       |           |
| G&D          | idOnDemand - SCE3.2 144K              | Yes       |
|              | 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               | Yes       |
|              | ID-One Cosmo 64 RSA D V5.4 T=0 card   |           |
|              | ID-One Cosmo 128K V5.5 card           |           |
| Gemalto      | TOP DL GX4 144K card                  | Yes       |
| Sony         | Felica RC-S962                        | Yes       |
|              | Felica RC-S966                        | Yes       |
| PIVKey       | C910 PKI                              | Yes       |
| IDENTIV      | PIV programmed cards                  | Yes       |

## Operating and storage environment

This table lists the operating and storage specifications of your Latitude 7330 Rugged Extreme.

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

**Table 33. Computer environment**

| Description  | Operating  | Storage   |
|--|--|---|
| Temperature range  | -29°C to 63°C (-20.2°F to 145.4°F)   | -51°C to 71°C (-59.8°F to 159.8°F)  |
| Relative humidity (maximum)  | <ul style="list-style-type: none"> <li>minimum: 10% (non-condensing)</li> <li>maximum: 95% (non-condensing)</li> </ul> | <ul style="list-style-type: none"> <li>minimum: 0% (non-condensing)</li> <li>maximum: 95% (non-condensing)</li> </ul> |
| Vibration (maximum)*   | 0.66 GRMS random at 5 Hz to 350 Hz   | 7.7 GRMS random at 5 Hz to 350 Hz   |
| Shock (maximum)  | 160 G+   | 185 G+  |
| Altitude range   | 12192 m (40,000 ft)  | 12192 m (40,000 ft)   |
|  <b>CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.</b> |  |   |

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

† Measured using a 2 ms half-sine pulse.

## Color, material, and finish

This section details the color, material, and finish (CMF) specifications of your Latitude 7330 Rugged Extreme.

**Table 34. CMF specifications**

| Title              | Specifications  |
|--------------------|---|
| A Cover (Top)      | <ul style="list-style-type: none"> <li>● Dell standard black, resin</li> <li>● Resin + Carbon Fiber + TPE</li> <li>● 5.5±1.5 GU, MT11010</li> </ul> |
| B Cover (Hinge up) | <ul style="list-style-type: none"> <li>● Maluck black, matte</li> <li>● Resin</li> <li>● 5.5±1.5 GU, MT11010</li> </ul>                             |
| C Cover (Palmrest) | <ul style="list-style-type: none"> <li>● Maluck black, matte</li> <li>● Magnesium</li> <li>● 5.5±1.5 GU</li> </ul>                                  |
| D Cover (Bottom)   | <ul style="list-style-type: none"> <li>● Maluck black, matte</li> <li>● Magnesium</li> <li>● 5.5±1.5 GU</li> </ul>                                  |

# Keyboard shortcuts of Latitude 7330 Rugged Extreme

**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 multi-media 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, multi-media functionality can be disabled by pressing **Fn + Esc**. Subsequently, multi-media 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 35. List of keyboard shortcuts**

| Function key | Primary behavior           |
|--------------|----------------------------|
| F1           | Mute audio                 |
| F2           | Decrease volume            |
| F3           | Increase volume            |
| F4           | Microphone Mute            |
| F5           | KB Illumination/Backlight  |
| F6           | Decrease brightness        |
| F7           | Increase brightness        |
| F8           | Switch to external display |
| F9           | Stealth mode               |
| F10          | Print screen               |
| F12          | Home                       |

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

**Table 36. Secondary behavior**

| Function key | Secondary behavior                                    |
|--------------|---|
| Fn + F1      | Operating system and application specific F1 behavior |
| Fn + F2      | Operating system and application specific F2 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 |

**Table 36. Secondary behavior (continued)**

| <b>Function key</b> | <b>Secondary behavior</b>                              |
|---------------------|--|
| 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 + Right Ctrl     | Open application menu                                  |
| Fn + Esc            | Toggle Fn-key lock                                     |
| Fn + C              | RGB keyboard backlight color rotation                  |





# 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 37. Self-help resources**

| Self-help resources  | Resource location  |
|--|--|
| Information about Dell products and services   | <a href="http://www.dell.com">www.dell.com</a>   |
| My Dell app  |   |
| Tips   |   |
| Contact Support  | In Windows search, type <code>Contact Support</code> , and press Enter.  |
| Online help for operating system   | <a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a><br><a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>   |
| Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents. | Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at <a href="http://www.dell.com/support">www.dell.com/support</a> .<br><br>For more information on how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a> . |
| Dell knowledge base articles for a variety of computer concerns  | <ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.</li> </ol>  |

## Contacting Dell

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

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

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