


# Precision 3480

## Owner's Manual

## 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 Precision 3480

## Right



### 1. Universal audio jack

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

### 2. USB 3.2 Gen 1 port with PowerShare

Connect devices such as external storage devices and printers.

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

**NOTE:** If your computer is turned off or in hibernate state, you must connect the power adapter to charge your devices using the PowerShare port. You must enable this feature in the BIOS setup program.

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

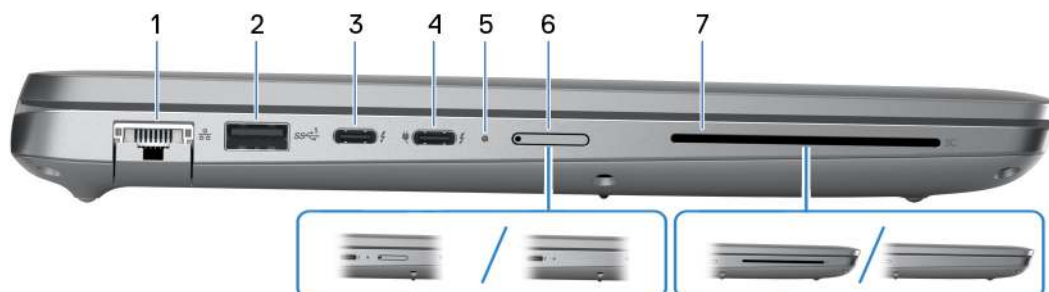
### 3. HDMI port

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

### 4. Security-cable slot

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

## Left



### 1. Network port

Connect an Ethernet (RJ45) cable from a router or a broadband modem for network or Internet access, with a transfer rate of 10/100/1000 Mbps.

## 2. USB 3.2 Gen 1 port

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

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

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

**NOTE:** You can connect a Dell Docking Station to the Thunderbolt 4 ports. For more information, search in the Knowledge Base Resource at [Dell Support Site](#).

**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.

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

## 5. Power and battery-status light

Indicates the power state and battery state of the computer.

Solid white—Power adapter is connected and the battery is charging.

Solid amber—Battery charge is low or critical.

Off—Battery is fully charged.

**NOTE:** On certain computer models, the power and battery-status light are also used for diagnostics. For more information, see the *Troubleshooting* section in your computer's *Service Manual*.

## 6. nano-SIM slot (optional)

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

## 7. Smart-card reader (optional)

Using smart card provides authentication in corporate networks.

# Top



## 1. Touchpad

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

## 2. NFC/Contactless smart card reader (optional)

Provides contactless access of cards in corporate networks.

## 3. Power button with optional fingerprint reader

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

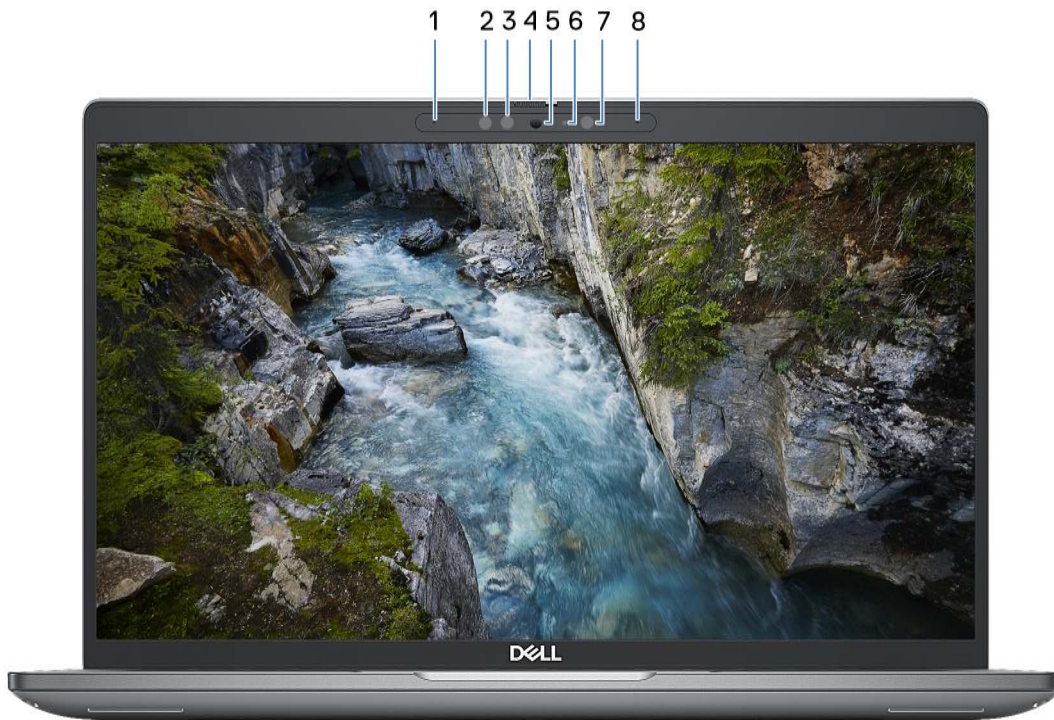
When the computer is turned on, press the power button to put the computer into sleep state; press and hold the power button for 10 seconds to force shut-down the computer.

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

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

**NOTE:** The power-button behavior can be customized in the operating system.

# Display



**1. Left microphone**

Provides digital sound input for audio recording and voice calls.

**2. Infrared emitter (optional)**

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

**3. Infrared camera (optional)**

Enhances security when paired with Windows Hello face authentication.

**4. Camera shutter**

Slide the camera shutter to turn the camera on or off.

**5. Camera**

Make video calls, capture photos, or record videos.

**6. Camera-status light**

Turns on when the camera is in use.

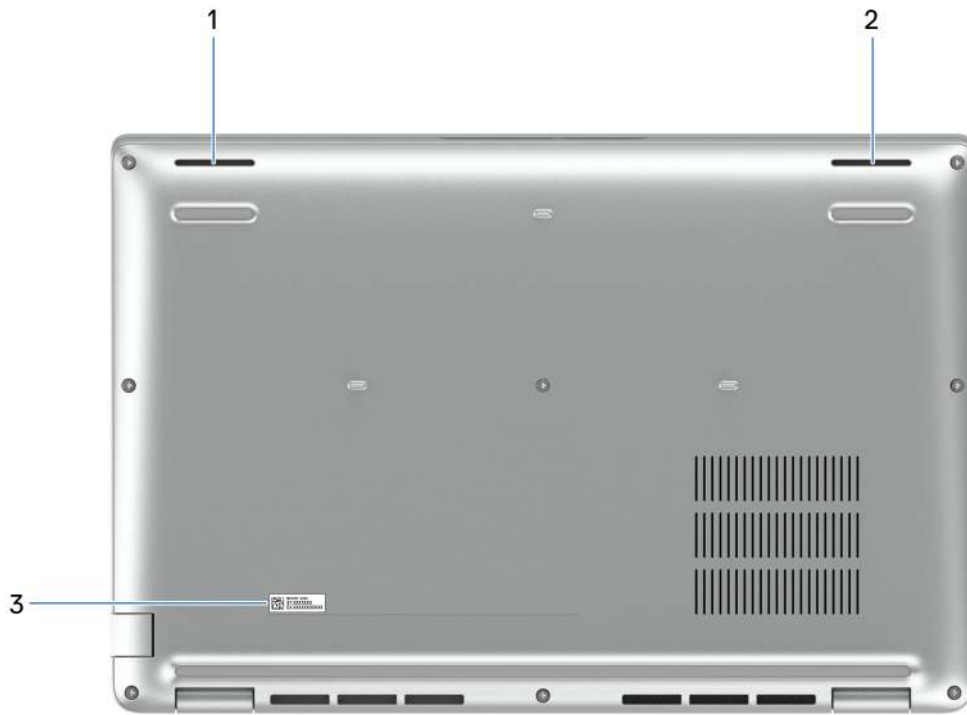
**7. Ambient-light sensor**

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

**8. Right microphone**

Provides digital sound input for audio recording and voice calls.

# Bottom



**1. Left speaker**

Provides audio output.

**2. Right speaker**

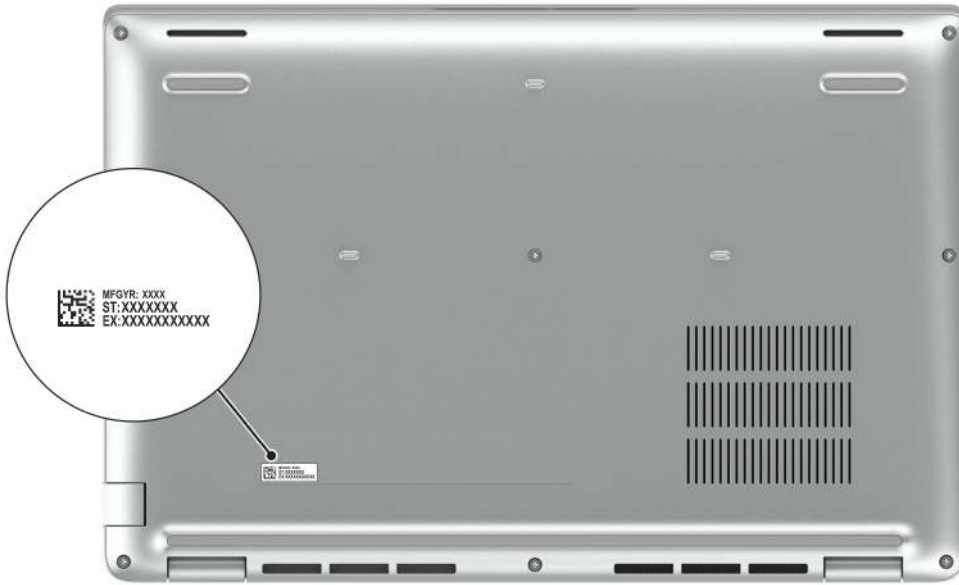
Provides audio output.

**3. 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

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## Battery charge and status light

The following table lists the battery charge and status light behavior of your Precision 3480.

**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.

# Set up your Precision 3480

## 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:** The battery may go into power-saving mode during shipment to conserve charge on the battery. Ensure that the power adapter is connected to your computer when it is turned on for the first time.

2. Finish the 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 [Dell Support Site](#).






### 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 2. Locate Dell apps**


Resources	Description
	<p><b>Dell Product Registration</b> Register your computer with Dell.</p>
	<p><b>Dell Help &amp; Support</b> Access help and support for your computer.</p>
	<p><b>SupportAssist</b> SupportAssist is the smart technology that keeps your computer running at its best by optimizing settings, detecting issues, removing viruses and notifies when you must make computer updates. SupportAssist proactively checks the health of your computer 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 the Windows operating system. For more information, see <i>SupportAssist for Business PCs manuals</i> at <a href="#">Support Assist for Business PCs</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> Updates your computer with critical fixes and latest device drivers as they become available. For more information about using Dell Update, see the product guides and third-party license documents at <a href="#">Dell Support Site</a>.</p>
	<p><b>Dell Digital Delivery</b> Download software applications, which are purchased but not preinstalled on your computer. For more information about using Dell Digital Delivery, search in the Knowledge Base Resource at <a href="#">Dell Support Site</a>.</p>

# Specifications of Precision 3480

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 3480.


**Table 3. Dimensions and weight**

Description	Values
Height:	
Front height	19.06 mm (0.75 in.)
Rear height	21.04 mm (0.83 in.)
Width	321.35 mm (12.65 in.)
Depth	212 mm (8.35 in.)
Weight  <b>NOTE:</b> The weight of your computer depends on the configuration that is ordered and manufacturing variability.	1.39 kg (3.06 lb)

## Processor

The following table lists the details of the processors supported by your Precision 3480.

**Table 4. Processor**

Description	Option one	Option two	Option three	Option four	Option five	Option six
Processor type	13 <sup>th</sup> Generation Intel Core i5-1335U vPro Essentials	13 <sup>th</sup> Generation Intel Core i7-1355U vPro Essentials	13 <sup>th</sup> Generation Intel Core i5-1340P vPro Essentials	13 <sup>th</sup> Generation Intel Core i5-1350P vPro Enterprise	13 <sup>th</sup> Generation Intel Core i7-1360P vPro Essentials	13 <sup>th</sup> Generation Intel Core i7-1370P vPro Enterprise
Processor wattage	15 W	15 W	28 W	28 W	28 W	28 W
Processor total core count	10	10	12	12	12	14
Performance-cores	2	2	4	4	4	6
Efficient-cores	8	8	8	8	8	8
Processor total thread count	12	12	16	16	16	20
 <b>NOTE:</b> Intel Hyper-Threading Technology is only available on Performance-cores.						
Processor speed	Up to 4.60 GHz	Up to 5 GHz	Up to 4.60 GHz	Up to 4.70 GHz	Up to 5 GHz	Up to 5.20 GHz
Performance-cores frequency						
Processor base frequency	1.30 GHz	1.70 GHz	1.90 GHz	1.90 GHz	2.20 GHz	1.90 GHz
Maximum turbo frequency	4.60 GHz	5 GHz	4.60 GHz	4.70 GHz	5 GHz	5.20 GHz
Efficient-cores frequency						
Processor base frequency	0.90 GHz	1.20 GHz	1.40 GHz	1.40 GHz	1.60 GHz	1.40 GHz
Maximum turbo frequency	3.40 GHz	3.70 GHz	3.40 GHz	3.50 GHz	3.70 GHz	3.90 GHz
Processor cache	12 MB	12 MB	12 MB	12 MB	18 MB	24 MB
Integrated graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics	Intel Iris Xe Graphics

# Chipset

The following table lists the details of the chipset that is supported in your Precision 3480.

**Table 5. Chipset**

Description	Values
Chipset	Integrated in the processor
Processor	13 <sup>th</sup> Generation Intel Core i5/i7
DRAM bus width	64-bit
Flash EPROM	Up to 64 MB
PCIe bus	Up to Gen 4

# Operating system

Your Precision 3480 supports the following operating systems:

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

# Memory

The following table lists the memory specifications of your Precision 3480.

**Table 6. Memory specifications**

Description	Values
Memory slots	Two-SODIMM slots
Memory type	<ul style="list-style-type: none"><li>• Single-channel DDR4</li><li>• Dual-channel DDR4</li><li>• Single-channel DDR5</li><li>• Dual-channel DDR5</li></ul>
Memory speed	<ul style="list-style-type: none"><li>• 3200 MT/s</li><li>• 4800 MT/s</li><li>• 5200 MT/s</li></ul>
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, or 32 GB
Memory configurations supported	<ul style="list-style-type: none"><li>• 8 GB, 1 x 8 GB, DDR4, 3200 MT/s, single-channel</li><li>• 16 GB, 2 x 8 GB, DDR4, 3200 MT/s, dual-channel</li><li>• 16 GB, 1 x 16 GB, DDR4, 3200 MT/s, single-channel</li><li>• 32 GB, 2 x 16 GB, DDR4, 3200 MT/s, dual-channel</li></ul>

**Table 6. Memory specifications (continued)**

Description	Values
	<ul style="list-style-type: none"> <li>• 64 GB, 2 x 32 GB, DDR4, 3200 MT/s, dual-channel</li> <li>• 8 GB, 1 x 8 GB, DDR5, 4800 MT/s, single-channel</li> <li>• 16 GB, 2 x 8 GB, DDR5, 4800 MT/s, dual-channel</li> <li>• 16 GB, 1 x 16 GB, DDR5, 4800 MT/s, single-channel</li> <li>• 32 GB, 2 x 16 GB, DDR5, 4800 MT/s, dual-channel</li> <li>• 64 GB, 2 x 32 GB, DDR5, 4800 MT/s, dual-channel</li> <li>• 8 GB, 1 x 8 GB, DDR5, 5200 MT/s, single-channel</li> <li>• 16 GB, 2 x 8 GB, DDR5, 5200 MT/s, dual-channel</li> <li>• 16 GB, 1 x 16 GB, DDR5, 5200 MT/s, single-channel</li> <li>• 32 GB, 2 x 16 GB, DDR5, 5200 MT/s, dual-channel</li> <li>• 64 GB, 2 x 32 GB, DDR5, 5200 MT/s, dual-channel</li> </ul>

## External ports

The following table lists the external ports of your Precision 3480.

**Table 7. External ports**

Description	Values
Network port	One RJ45 port
USB ports	<ul style="list-style-type: none"> <li>• Two Thunderbolt 4 port with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery</li> </ul> <p><b>NOTE:</b> You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at <a href="#">Dell Support Site</a>.</p> <ul style="list-style-type: none"> <li>• One USB 3.2 Gen 1 port with PowerShare</li> <li>• One USB 3.2 Gen 1 port</li> </ul>
Audio port	One Universal audio jack
Video port	One HDMI 2.0 port
Media-card reader	One smart card reader slot (optional)
Power-adaptor port	Supported through USB-C
Security-cable slot	One security-cable slot (wedge-shaped)
SIM-card slot	Nano-SIM card slot (optional)


## Internal slots

The following table lists the internal slots of your Precision 3480.

**Table 8. Internal slots**

Description	Values
M.2	<ul style="list-style-type: none"> <li>• One M.2 2230 slot for WiFi and Bluetooth combo card</li> <li>• One M.2 2230 slot for solid-state drive</li> <li>• One M.2 3042/3052 for WWAN slot (optional)</li> </ul>

**Table 8. Internal slots**

Description	Values
	 <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="#">Dell Support Site</a> .

## Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Precision 3480.



**Table 9. Ethernet specifications**

Description	Values
Model number	<ul style="list-style-type: none"> <li>Intel Jacksonville I219-LM 10/100/Gb (1000BASE-T) for vPRO configurations</li> <li>Intel Jacksonville I219-V 10/100/Gb (1000BASE-T) for non-vPRO configurations</li> </ul>
Transfer rate	10/100/1000 Mbps

## Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your Precision 3480.

**Table 10. Wireless module specifications**

Description	Option one	Option two
Model number	Realtek RTL8852BE	Intel AX211
Transfer rate	Up to 1201 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz/6 GHz
Wireless standards	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6 (WiFi 802.11ax)</li> </ul>	<ul style="list-style-type: none"> <li>WiFi 802.11a/b/g</li> <li>Wi-Fi 4 (WiFi 802.11n)</li> <li>Wi-Fi 5 (WiFi 802.11ac)</li> <li>Wi-Fi 6E (WiFi 802.11ax)</li> </ul>  <b>NOTE:</b> Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.
Encryption	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>	<ul style="list-style-type: none"> <li>64-bit/128-bit WEP</li> <li>AES-CCMP</li> <li>TKIP</li> </ul>
Bluetooth wireless card	Bluetooth 5.3	Bluetooth 5.3
	 <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) modules that are supported in your Precision 3480.

**NOTE:** This module is only available on computers that support WWAN.

**NOTE:** Availability of the eSIM feature on this module depends on your region and your mobile carrier's requirements.

**NOTE:** For instructions on how to setup SIM or eSIM connections on your computer, see the *SIM/eSIM Setup Guide for Windows* available with your product documentation at [Dell Support Site](#).

**Table 11. WWAN module specifications**

Description	Option one	Option two
Model number	4G DW5823e, Intel XMM 7560R+ Global LTE-Advanced, CAT16	5G DW5931e, Intel 5G 5000 Global Gigabit NR/LTE, 3GPP Release 15
Form factor	M.2 3042 Key-B	M.2 3042 Key-B
Host interface	PCIe Gen2	PCIe Gen3
Network standard	LTE FDD/TDD, WCDMA/HSPA+, GPS/GLONASS/BDS/Galileo	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"> <li>Up to 1 Gbps DL (Cat 16)</li> <li>Up to 150 Mbps UL</li> </ul>	<ul style="list-style-type: none"> <li>SA: DL 4.67 Gbps/UL 1.25Gbps</li> <li>NSA: DL 3.74 Gbps/UL 700Mbps</li> <li>LTE: DL 1.6 Gbps (CAT19)/UL 150 Mbps</li> <li>UMTS: DL 384 Kbps / UL 384 Kbps DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)</li> </ul>
Operating frequency bands	<ul style="list-style-type: none"> <li>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)</li> <li>WCDMA/HSPA+ (1, 2, 4, 5, 8)</li> </ul>	<ul style="list-style-type: none"> <li>NR (n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n77, n78, n79)</li> <li>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)</li> <li>WCDMA/HSPA+ (1, 2, 4, 5, 8)</li> </ul>
Power supply	DC 3.135 V to 4.4 V, Typical 3.3 V	DC 3.135 V to 4.4 V, Typical 3.3 V
SIM card	Supported through external SIM slot	Supported through external SIM slot
eSIM with dual SIM (DSSA)	Supported	Supported
Antenna diversity	Supported	Supported
Radio On/Off	Supported	Supported
Wake on wireless	Supported	Supported
Temperature	<ul style="list-style-type: none"> <li>Normal operating temperature: -10°C to + 55°C</li> <li>Extended Operating temperature: -20°C to +65°C</li> </ul>	<ul style="list-style-type: none"> <li>Normal operating temperature: -10°C to + 55°C</li> </ul>

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

Description	Option one	Option two
		<ul style="list-style-type: none"> <li>Extended Operating temperature: -30°C to +75°C</li> <li>Storage temperature: -40°C to +85°C</li> </ul>
Antenna connector	<ul style="list-style-type: none"> <li>WWAN Main Antenna x 4</li> <li>Supports 4x4 MIMO</li> </ul>	<ul style="list-style-type: none"> <li>WWAN Main Antenna x 4</li> <li>Supports 4x4 MIMO</li> </ul>
<p><b>NOTE:</b> For instructions on how to find your computer's International Mobile Equipment Identity (IMEI) number, search in the Knowledge Base Resource at <a href="#">Dell Support Site</a>.</p>		

## Audio

The following table lists the audio specifications of your Precision 3480.

**Table 12. Audio specifications**

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

## Storage

This section lists the storage options on your Precision 3480.

**Table 13. Storage matrix**

Storage	Single M.2 socket	2nd M.2 socket
M.2 2230 solid-state drive	Yes	Not supported

**Table 14. Storage specifications**

Storage type	Interface type	Capacity
M.2 2230 solid-state drive	PCIe Gen4 x4 NVMe, up to 64 Gbps	Up to 2 TB

## Keyboard

The following table lists the keyboard specifications of your Precision 3480.

**Table 15. Keyboard specifications**

Description	Values
Keyboard type	Standard keyboard
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none"> <li>English US, English International, Arabic, Canada bilingual (MUI), Chinese traditional, French-Canadian, Greek, Hebrew, Korean, Russian, Thai, Ukrainian: 79 keys</li> <li>French-Canadian Quebec, Brazilian, Spanish, Belgian, Bulgarian, Czech &amp; Slovakian (MUI), Danish, English UK, Estonian, French European, German, Hungarian, Icelandic, Italian, Nordic (MUI), Norwegian, Portugese Iberian, Slovenian, Spanish (Castillian), Spanish (Latin America), Swedish/Finnish, Swiss European (MUI), Turkish, Turkish F: 80 keys</li> <li>Japanese: 83 keys</li> </ul>
Keyboard size	X=19.05 mm key pitch Y=18.05 mm key pitch
Keyboard shortcuts	<p>Some keys on your keyboard have two symbols on them. These keys can be used to type alternate characters or to perform secondary functions. To type the alternate character, press Shift and the desired key. To perform secondary functions, press Fn and the desired key.</p> <p><b>i</b> <b>NOTE:</b> You can define the primary behavior of the function keys (F1–F12) changing <b>Function Key Behavior</b> in BIOS setup program.</p> <p><b>i</b> <b>NOTE:</b> 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 <a href="#">dell support</a>.</p>

## Keyboard function keys

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

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

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

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

**Table 16. Secondary tasks of keyboard keys**

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

## Keys with alternate characters

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

## Camera

The following table lists the camera specifications of your Precision 3480.

**Table 17. Camera specifications**

Description	Values
Number of cameras	One
Camera type	<ul style="list-style-type: none"> <li>FHD RGB camera</li> <li>FHD RGB+IR camera</li> <li>FHD RGB+IR camera with Ambient Light Sensor, Express Sign-In with Presence Detection and Intelligent Privacy</li> </ul>
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	2.07 megapixel
Video	1920 x 1080 (FHD) at 30 fps

**Table 17. Camera specifications (continued)**

Description		Values
Infrared camera resolution:		
	Still image	0.23 megapixel
	Video	640 x 360 at 30 fps
Diagonal viewing angle:		
	Camera	80 degrees
	Infrared camera	86.60 degrees

## Touchpad

The following table lists the touchpad specifications of your Precision 3480.

**Table 18. Touchpad specifications**

Description		Values
Touchpad resolution:		> 300 DPI
Touchpad dimensions:		
	Horizontal	115 mm
	Vertical	67 mm
Touchpad gestures		For more information about touchpad gestures that are available on: <ul style="list-style-type: none"> <li>Windows, see the Microsoft Knowledge Base article at <a href="#">Microsoft Support Site</a>.</li> <li>Ubuntu, see <a href="#">Ubuntu Support Site</a>.</li> </ul>


## Power adapter

The following table lists the power adapter specifications of your Precision 3480.

**Table 19. Power adapter specifications**

Description	Option one	Option two	Option three	
Type	Pecos 65 W, USB-C	100 W, USB-C	130 W, USB-C	
Power-adapter dimensions:				
	Height	28 mm (1.10 in.)	26.50 (1.04 in.)	22 mm (0.87 in.)
	Width	51 mm (2.01 in.)	60 mm (2.36 in.)	66 mm (2.60 in.)
	Depth	112 mm (4.41 in.)	122 mm (4.80 in.)	143 mm (5.63 in.)
Input voltage	100 VAC–240 VAC	100 VAC–240 VAC	100 VAC–240 VAC	
Input frequency	50 Hz–60 Hz	50 Hz–60 Hz	50 Hz–60 Hz	
Input current (maximum)	1.70 A	1.70 A	1.80 A	

**Table 19. Power adapter specifications (continued)**

Description	Option one	Option two	Option three
Output current (continuous)	<ul style="list-style-type: none"> <li>20 V/3.25 A (continuous)</li> <li>15 V/3 A (continuous)</li> <li>9 V/3 A (continuous)</li> <li>5 V/3 A (continuous)</li> </ul>	<ul style="list-style-type: none"> <li>20 V/5 A (continuous)</li> <li>15 V/3 A (continuous)</li> <li>9 V/3 A (continuous)</li> <li>5 V/3 A (continuous)</li> </ul>	<ul style="list-style-type: none"> <li>20 V/6.50 A (continuous)</li> <li>5 V/1 A (continuous)</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>	<ul style="list-style-type: none"> <li>20 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)	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)	-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 Precision 3480.


**Table 20. Battery specifications**

Description	Option one	Option two	Option three	Option four
Battery type	3 cell, 42 Wh, ExpressCharge, ExpressCharge Boost	3 cell, 42 Wh, Long Cycle Life, ExpressCharge	3 cell, 54 Wh, ExpressCharge, ExpressCharge Boost	3 cell, 54 Wh, Long Cycle Life, ExpressCharge
Battery voltage	11.40 VDC	11.40 VDC	11.40 VDC	11.40 VDC
Battery weight (minimum)	0.19 kg (0.41 lb)	0.19 kg (0.41 lb)	0.22 kg (0.48 lb)	0.22 kg (0.48 lb)
Battery dimensions:				
	Height	5.73 mm (0.22 in.)	5.73 mm (0.22 in.)	5.73 mm (0.22 in.)
	Width	263 mm (10.35 in.)	263 mm (10.35 in.)	263 mm (10.35 in.)
	Depth	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)
Temperature range:				
	Operating	<ul style="list-style-type: none"> <li>Charge: 0°C to 45°C (32°F to 113°F)</li> <li>Discharge: 0°C to 70°C (32°F to 158°F)</li> </ul>	<ul style="list-style-type: none"> <li>Charge: 0°C to 45°C (32°F to 113°F)</li> <li>Discharge: 0°C to 70°C (32°F to 158°F)</li> </ul>	<ul style="list-style-type: none"> <li>Charge: 0°C to 45°C (32°F to 113°F)</li> <li>Discharge: 0°C to 70°C (32°F to 158°F)</li> </ul>
	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)

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

Description	Option one	Option two	Option three	Option four
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)  <b>NOTE:</b> 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 <a href="#">Dell Support Site</a> .	<p><b>Express Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C - 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C - 45°C normal express charge</li> <li>46°C - 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul> <p><b>Standard Charge/ Predominately AC User Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C - 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C - 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul> <p><b>Express Charge Boost Charge Method (Fast Charge for Initial 35%):</b></p> <ul style="list-style-type: none"> <li>16°C - 45°C target charge time from 0% to 35% RSOC is 20 mins for Accelerated Charge</li> </ul>	<p><b>Express Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C to 45°C normal express charge</li> <li>46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul> <p><b>Standard Charge/ Predominately AC User Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C - 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C - 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul>	<p><b>Express Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C - 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C - 45°C normal express charge</li> <li>46°C - 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul> <p><b>Standard Charge/ Predominately AC User Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C - 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C - 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul> <p><b>Express Charge Boost Charge Method (Fast Charge for Initial 35%):</b></p> <ul style="list-style-type: none"> <li>16°C - 45°C target charge time from 0% to 35% RSOC is 20 mins for Accelerated Charge</li> </ul>	<p><b>Express Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C to 45°C normal express charge</li> <li>46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul> <p><b>Standard Charge/ Predominately AC User Charge Method:</b></p> <ul style="list-style-type: none"> <li>0°C - 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours</li> <li>16°C - 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours</li> </ul>
Coin-cell battery	CR2032	CR2032	CR2032	CR2032
 <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.				

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

Description	Option one	Option two	Option three	Option four
 <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.				

## Display

The following table lists the display specifications of your Precision 3480.

**Table 21. Display specifications**

Description	Option one	Option two	Option three
Display type	14-inch Full High Definition (FHD)	14-inch Full High Definition (FHD)	14-inch Full High Definition (FHD), ComfortView Plus Low Blue Light, battery saving
Touch options	No	Yes	No
Display-panel technology	In-Plane Switching (IPS)	In-Plane Switching (IPS)	In-Plane Switching (IPS)
Display-panel dimensions (active area):			
	Height	173.95 mm (6.84 in.)	173.95 mm (6.84 in.)
	Width	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)
	Diagonal	355.60 mm (14 in.)	355.60 mm (14 in.)
Display-panel native resolution	1920 x 1080	1920 x 1080	1920 x 1080
Luminance (typical)	250 nits	300 nits	400 nits
Megapixels	2.07	2.07	2.07
Color gamut	45% NTSC (typical)	72% NTSC (typical)	100% sRGB (typical)
Pixels Per Inch (PPI)	157	157	157
Contrast ratio (typical)	600:1	600:1	1000:1
Response time (maximum)	35 ms	35 ms	35 ms
Refresh rate	60 Hz	60 Hz	60 Hz
Horizontal view angle	+/- 85 degrees	+/- 85 degrees	+/- 85 degrees
Vertical view angle	+/- 85 degrees	+/- 85 degrees	+/- 85 degrees
Pixel pitch	0.161 x 0.161 mm	0.161 x 0.161 mm	0.161 x 0.161 mm
Power consumption (maximum)	3.10 W	4.60 W	2.50 W
Anti-glare vs glossy finish	Anti-glare	Anti-glare	Anti-glare

## Fingerprint reader (optional)

The following table lists the specifications of the optional fingerprint-reader of your Precision 3480.

**Table 22. Fingerprint reader specifications**

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

## Sensor

The following table lists the sensor of your Precision 3480.

**Table 23. Sensor**

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

## GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Precision 3480.

**Table 24. GPU—Integrated**

Controller	Memory size	Processor
Intel Iris Xe Graphics	Dual-channel memory	13 <sup>th</sup> Generation Intel Core i5/i7

## GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 3480.

**Table 25. GPU—Discrete**

Controller	Memory size	Memory type
NVIDIA RTX A500	4 GB	GDDR6

## External display support

The following table lists the external display support for your Precision 3480.

**Table 26. External display support**

Graphics card	Supported external displays with laptop display enabled	Supported external displays with laptop display disabled
Intel Iris Xe Graphics	3	4

# Hardware security

The following table lists the hardware security of your Precision 3480.

**Table 27. Hardware security**

<b>Hardware security</b>
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
TCG Certification for TPM (Trusted Computing Group)
Finger Print Reader in Power Button tied to ControlVault 3 (optional)
ControlVault 3 Advanced Authentication with FIPS 140-2 Level 3 Certification
Contacted Smart Card and ControlVault 3
Contactless Smart Card, NFC, and ControlVault 3
SED SSD NVMe, SSD and HDD (Opal and non-Opal) per SDL

## Smart-card reader

### Contactless smart-card reader

This section lists the contactless smart-card reader specifications of your Precision 3480. This module is only available in computers shipped with Smart-card readers.

**Table 28. Contactless smart-card reader specifications**

Title	Description	Dell ControlVault 3 contactless smart-card reader with NFC
Felica Card Support	Reader and software capable of supporting Felica contactless cards	Yes
ISO 14443 Type A Card Support	Reader and software capable of supporting ISO 14443 Type A contactless cards	Yes
ISO 14443 Type B Card Support	Reader and software capable of supporting ISO 14443 Type B contactless cards	Yes
ISO/IEC 21481	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO/IEC 18092	Reader and software capable of supporting ISO/IEC 21481 compliant contactless cards and tokens	Yes
ISO 15693 Card Support	Reader and software capable of supporting ISO15693 contactless cards	Yes
NFC Tag Support	Supports reading and processing of NFC compliant tag information	Yes
NFC Reader Mode	Support for NFC Forum Defined Reader mode	Yes
NFC Writer Mode	Support for NFC Forum Defined Writer mode	Yes