

Precision 3490

Owner's Manual

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Set up your Precision 3490

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.



Figure 1. Connect 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 www.dell.com/support.






For Windows:

Follow the on-screen instructions to complete the setup. When setting up, Dell Technologies 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.
- 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>Dell Product Registration Register your computer with Dell.</p>
	<p>Dell Help & Support Access help and support for your computer.</p>
	<p>SupportAssist 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 www.dell.com/support/home/product-support/product/supportassist-business-pcs/docs.</p> <p>NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.</p>
	<p>Dell Update 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 www.dell.com/support.</p>
	<p>Dell Digital Delivery 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 www.dell.com/support.</p>

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Views of Precision 3490

Right



Figure 2. Right view

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 a hibernation 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 a sleep state. In such cases, turn on the computer to charge the device.

3. HDMI 2.1 TMDS port

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

4. Security-cable slot (wedge-shaped)

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

Left

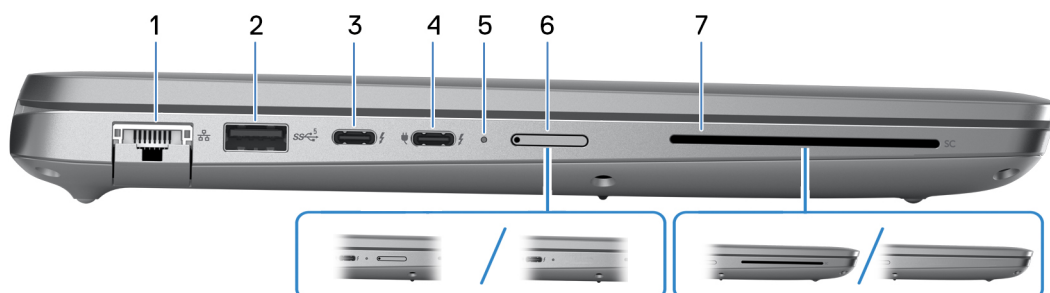


Figure 3. Left view

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 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 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. 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 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.

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 slot (optional)

Using smart card provides authentication in corporate networks.

Top



Figure 4. Top view

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 or 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 hibernation 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.

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

Front



Figure 5. Front view

1. Left microphone

Provides digital sound input for audio recording and voice calls.

2. Infrared emitter (optional)

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

3. Infrared camera (optional)

Enhances security when paired with Windows Hello face authentication.

4. Camera shutter

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

5. Camera

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

6. Camera-status light

Turns on when the camera is in use.

7. Ambient-light sensor

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

8. Right microphone

Provides digital sound input for audio recording and voice calls.

Bottom

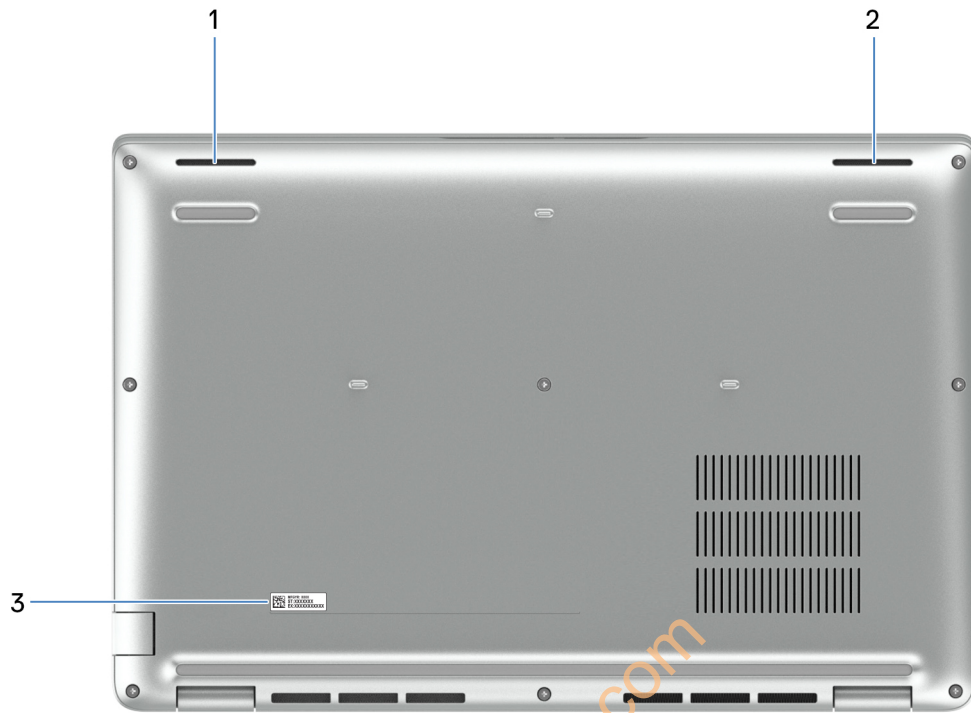


Figure 6. Bottom view

- 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

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.

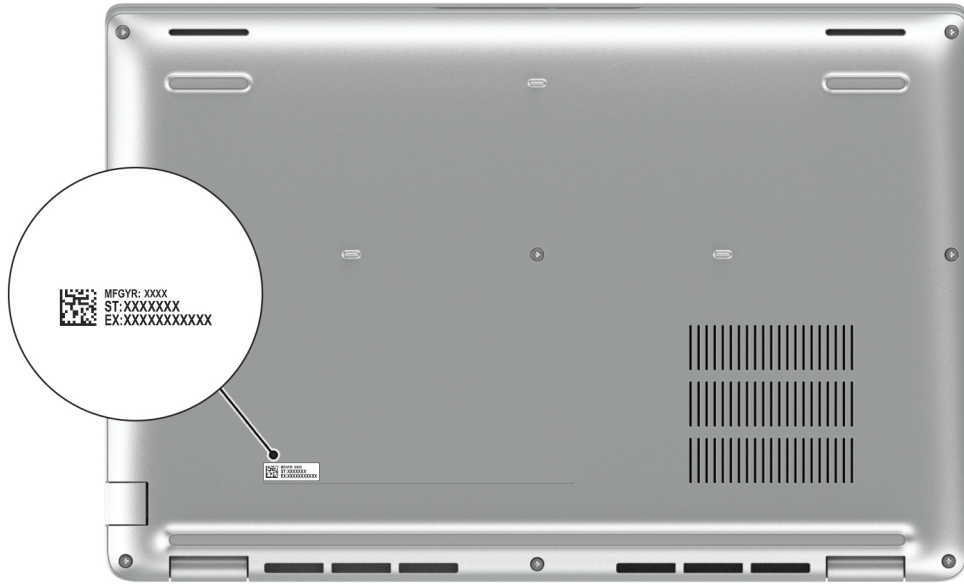


Figure 7. Service Tag location

Battery charge and status light

The following table lists the battery charge and status light behavior of your Precision 3490.

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	Solid white	S0 - S5	< Fully charged
Battery	Off	S0 - S5	11-100%
Battery	Solid amber (590+/-3 nm)	S0 - S5	< 10%


- S0 (ON) - Computer 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 Precision 3490

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 3490.

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	212.00 mm (8.35 in.)
Weight  NOTE: The weight of your computer depends on the configuration that is ordered and manufacturing variability.	1.40 kg (3.09 lb) - minimum

Processor

The following table lists the details of the processors that are supported for your Precision 3490.

Table 4. Processor

Description	Option one	Option two	Option three
Processor type	Intel Core Ultra 5 125U vPro Essentials	Intel Core Ultra 5 155U vPro Essentials	Intel Core Ultra 5 125H vPro Essentials
Processor wattage	15 W	15 W	28 W
Processor total core count	12	12	14
Performance-cores	2	2	4
Efficient-cores	<ul style="list-style-type: none"> E-cores: 8 LPE-cores: 2 	<ul style="list-style-type: none"> E-cores: 8 LPE-cores: 2 	<ul style="list-style-type: none"> E-cores: 8 LPE-cores: 2
Processor total thread counts <i>i</i> NOTE: Intel Hyper-Threading Technology is only available on Performance-cores.	14	14	18
Processor speed	Up to 4.30 GHz	Up to 4.80 GHz	Up to 4.50 GHz
Performance-cores frequency			
Processor base frequency	1.30 GHz	1.70 GHz	1.20 GHz
Maximum turbo frequency	4.30 GHz	4.80 GHz	4.50 GHz
Efficient-cores frequency			
Processor base frequency	0.80 GHz	1.20 GHz	0.70 GHz
Maximum turbo frequency	3.60 GHz	3.80 GHz	3.60 GHz
Processor cache	12 MB	12 MB	18 MB
Integrated graphics	Intel Graphics	Intel Graphics	Intel Arc Graphics

Table 5. Processor

Description	Option four	Option five	Option six
Processor type	Intel Core Ultra 7 135H vPro Enterprise	Intel Core Ultra 7 155H vPro Essentials	Intel Core Ultra 7 165H vPro Enterprise
Processor wattage	28 W	28 W	28 W
Processor total core count	14	16	16
Performance-cores	4	6	6
Efficient-cores	<ul style="list-style-type: none"> E-cores: 8 LPE-cores: 2 	<ul style="list-style-type: none"> E-cores: 8 LPE-cores: 2 	<ul style="list-style-type: none"> E-cores: 8 LPE-cores: 2
Processor total thread counts <i>i</i> NOTE: Intel Hyper-Threading Technology is only available on Performance-cores.	18	22	22
Processor speed	Up to 4.60 GHz	Up to 4.80 GHz	Up to 5.00 GHz
Performance-cores frequency			
Processor base frequency	1.70 GHz	1.70 GHz	1.40 GHz
Maximum turbo frequency	4.60 GHz	4.80 GHz	5.00 GHz
Efficient-cores frequency			
Processor base frequency	1.20 GHz	1.20 GHz	0.90 GHz
Maximum turbo frequency	3.60 GHz	3.80 GHz	3.80 GHz
Processor cache	18 MB	24 MB	24 MB
Integrated graphics	Intel Arc Graphics	Intel Arc Graphics	Intel Arc Graphics

Chipset

The following table lists the details of the chipset that is supported for your Precision 3490.

Table 6. Chipset

Description	Values
Chipset	Integrated in the processor
Processor	Intel Core Ultra 5/7
DRAM bus width	64-bit
Flash EPROM	Up to 64 MB
PCIe bus	Up to Gen4

Operating system

Your Precision 3490 supports the following operating systems:

- Windows 11 Home
- Windows 11 Pro
- Ubuntu Linux 22.04 LTS
- Red Hat 9.4

Memory

The following table lists the memory specifications of your Precision 3490.

Table 7. Memory specifications

Description	Values
Memory slots	Two-SODIMM slots
Memory type	DDR5
Memory speed	5600 MT/s
Maximum memory configuration	64 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, or 32 GB
Memory configurations supported	<ul style="list-style-type: none">• 8 GB, 1 x 8 GB, DDR5, 5600 MT/s, single-channel• 16 GB, 1 x 16 GB, DDR5, 5600 MT/s, single-channel• 16 GB, 2 x 8 GB, DDR5, 5600 MT/s, dual-channel• 32 GB, 2 x 16 GB, DDR5, 5600 MT/s, dual-channel• 32 GB, 1 x 32 GB, DDR5, 5600 MT/s, single-channel• 64 GB, 2 x 32 GB, DDR5, 5600 MT/s, dual-channel

External ports

The following table lists the external ports of your Precision 3490.

Table 8. External ports

Description	Values
Network port	One RJ45 Ethernet port
USB ports	<ul style="list-style-type: none">• One USB 3.2 Gen 1 port• One USB 3.2 Gen 1 port with PowerShare• Two Thunderbolt 4.0 ports with DisplayPort Alt Mode/USB Type-C/USB4/Power Delivery <p>NOTE: You can connect a Dell Docking Station to this port. For more information, search in the Knowledge Base Resource at www.dell.com/support.</p>
Audio port	One universal audio port
Video port	One HDMI 2.1 TMDS port

Table 8. External ports (continued)

Description	Values
Media-card reader	One smart-card reader slot (optional)
Power-adaptor port	USB Type-C power input
Security-cable slot	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 3490.

Table 9. Internal slots

Description	Values
M.2	<ul style="list-style-type: none"> One M.2 2230 slot for WiFi and Bluetooth combo card One M.2 2230 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>

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Precision 3490.

Table 10. Ethernet specifications

Description	Values
Model number	<ul style="list-style-type: none"> Intel Jacksonville I219-LM 10/100/Gb (1000BASE-T) for vPRO configurations Intel Jacksonville I219-V 10/100/Gb (1000BASE-T) for non-vPRO configurations
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 3490.

Table 11. Wireless module specifications

Description	Option one	Option two
Model number	Realtek RTL8852BE	Intel AX211
Transfer rate	Up to 1201 Mbps	Up to 2400 Mbps
Frequency bands supported	2.4 GHz/5 GHz	2.4 GHz/5 GHz/6 GHz
Wireless standards	<ul style="list-style-type: none"> WiFi 802.11a/b/g 	<ul style="list-style-type: none"> WiFi 802.11a/b/g

Table 11. Wireless module specifications (continued)

Description	Option one	Option two
	<ul style="list-style-type: none"> • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6 (WiFi 802.11ax) 	<ul style="list-style-type: none"> • Wi-Fi 4 (WiFi 802.11n) • Wi-Fi 5 (WiFi 802.11ac) • Wi-Fi 6E (WiFi 802.11ax) <p>NOTE: Wi-Fi 6 is supported in regions where Wi-Fi 6E is unavailable.</p>
Encryption	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP 	<ul style="list-style-type: none"> • 64-bit/128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	Bluetooth 5.3	Bluetooth 5.3
	<p>NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.</p>	

WWAN module

The following table lists the Wireless Wide Area Network (WWAN) module supported on your Precision 3490.

Table 12. WWAN module specifications

Description	Option one	Option two
Model number	Qualcomm Snapdragon X12 Global LTE-Advanced (DW5825e), CAT12	Qualcomm Snapdragon X62 Global 5G Modem (DW5932e)
Form factor	M.2 3042 Key-B	M.2 3042 Key-B
Host interface	USB 3.0/2.0	PCIe Gen3
Network standard	LTE FDD/TDD, WCDMA/HSPA+, GNSS/Beidou, GPS/GLONASS/Galileo	NR FR1 (Sub6) FDD/TDD, LTE FDD/TDD, WCDMA/HSPA+, GPS/GLONASS/Galileo/Beidou
Transfer data rate	<ul style="list-style-type: none"> • Up to 600 Mbps DL (CAT12) • Up to 150 Mbps UL 	<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"> • 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) 	<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 4.400 V, Typical 3.300 V	DC 3.135 V to 3.630 V, Typical 3.300 V
SIM card	Supported through external SIM slot	Supported through external SIM slot

Table 12. WWAN module specifications (continued)

Description	Option one	Option two
eSIM with dual SIM (DSSA)	Supported <i>i</i> NOTE: The availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements.	Supported <i>i</i> NOTE: The availability of eSIM functionality embedded on the module is dependent on the region and specific carrier requirements.
Antenna diversity	Supported	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 (15°F to +131°F) Extended Operating temperature: -30°C to +75°C (-22°F to +131°F) 	<ul style="list-style-type: none"> Normal operating temperature: -10°C to +55°C (15°F to +131°F) Extended Operating temperature: -40°C to +85°C (-40°F to +185°F)
Antenna connector	<ul style="list-style-type: none"> WWAN Main Antenna x 1 WWAN Diversity Antenna x 1 	<ul style="list-style-type: none"> WWAN Main Antenna x 1 WWAN Diversity Antenna x 1 4x4 MIMO Antenna x 2
<i>i</i> NOTE: For instructions on how to find your computer's International Mobile Equipment Identity (IMEI) number, search in the Knowledge Base Resource at www.dell.com/support .		

Audio

The following table lists the audio specifications of your Precision 3490.

Table 13. Audio specifications

Description	Values
Audio controller	Waves MaxxAudio Pro 13.0
Stereo conversion	Supported
Internal audio interface	High definition audio interface
External audio interface	Universal Audio Jack/HDMI 2.1 TMDS port
Number of speakers	2
Internal-speaker amplifier	Not supported
External volume controls	Keyboard shortcut controls
Speaker output:	
Average speaker output	2 W
Peak speaker output	2 W
Subwoofer output	Not supported
Microphone	Digital-array microphones in camera assembly

Storage

This section lists the storage options on your Precision 3490.
Your Precision 3490 supports one M.2 2230 solid state drive.

Table 14. Storage specifications

Storage type	Interface type	Capacity
M.2 2230 solid state drive	PCIe Gen4 NVMe, up to 64 Gbps	Up to 2 TB
M.2 2230 self-encrypting solid state drive	PCIe Gen4 NVMe, up to 64 Gbps	512 GB

Keyboard

The following table lists the keyboard specifications of your Precision 3490.

Table 15. Keyboard specifications

Description	Values
Keyboard type	<ul style="list-style-type: none">Standard backlit AI hotkey keyboardStandard non-backlit AI hotkey keyboard <p>NOTE: Copilot in Windows is available only in approved markets.</p>
Keyboard layout	QWERTY
Number of keys	<ul style="list-style-type: none">English US, English International, Arabic, Canada bilingual (MUI), Chinese traditional, French-Canadian, Greek, Hebrew, Korean, Russian, Thai, Ukrainian: 79 keysFrench-Canadian Quebec, Portuguese Brazilian, Belgian, Bulgarian, Czech & 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 keysJapanese: 83 keys
Keyboard size	X=19.05 mm key pitch Y=18.05 mm 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.

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.

Table 16. List of keyboard shortcuts

Key	Primary behavior
F1	Mute audio
F2	Decrease volume
F3	Increase volume
F4	Mute microphone
F5	Keyboard backlight <i>i</i> NOTE: Toggle to cycle the keyboard backlight status through off, low-backlight, and high-backlight.
F6	Decrease brightness
F7	Increase brightness
F8	Switch to external display
F10	Print Screen
F11	Home
F12	End
Copilot	Launch Copilot in Windows <i>i</i> 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 .

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

Table 17. Secondary tasks of keyboard keys

Key combination for task	What the task does
fn and F1	Operating system and application-specific F1 behavior
fn and F2	Operating system and application-specific F2 behavior
fn and F3	Operating system and application-specific F3 behavior
fn and F4	Operating system and application-specific F4 behavior
fn and F5	Operating system and application-specific F5 behavior
fn and F6	Operating system and application-specific F6 behavior
fn and F7	Operating system and application-specific F7 behavior
fn and F8	Operating system and application-specific F8 behavior
fn and F9	Operating system and application-specific F9 behavior
fn and F10	Operating system and application-specific F10 behavior
fn and F11	Operating system and application-specific F11 behavior
fn and F12	Operating system and application-specific F12 behavior

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 3490.

Table 18. Camera specifications

Description	Values
Number of cameras	One
Camera type	<ul style="list-style-type: none">FHD RGB HDR cameraFHD RGB+IR HDR cameraFHD RGB+IR HDR camera with Ambient Light Sensor, Express Sign-In with Presence Detection and Intelligent Privacy
Camera location	Front camera
Camera sensor type	CMOS sensor technology
Camera resolution:	
Still image	2.07 megapixel
Video	1920 x 1080 (FHD) at 30 fps
Infrared camera resolution:	
Still image	0.23 megapixels
Video	640 x 360 at 30 fps
Diagonal viewing angle:	
Camera	80 degrees
Infrared camera	86.60 degrees

Touchpad

The following table lists the touchpad specifications of your Precision 3490.

Table 19. Touchpad specifications

Description	Values
Touchpad resolution:	> 300 DPI
Touchpad dimensions:	
Horizontal	115 mm (4.52 in.)
Vertical	67 mm (2.64 in.)

Table 19. Touchpad specifications (continued)

Description	Values
Touchpad gestures	<p>For more information about touchpad gestures are available on:</p> <ul style="list-style-type: none"> Windows, see the Microsoft Knowledge Base article at support.microsoft.com. Ubuntu, see ubuntu.com/support.

Power adapter

The following table lists the power adapter specifications of your Precision 3490.

Table 20. Power adapter specifications

Description	Option one	Option two	Option three
Type	65 W adapter, USB-C i NOTE: Applicable to computers shipped with integrated graphics card.	100 W adapter, USB-C i NOTE: Applicable to computers shipped with integrated or discrete graphics card.	130 W adapter, USB-C i NOTE: Applicable to computers shipped with integrated or discrete graphics card.
Power-adapter dimensions:			
Height	28.00 mm (1.10 in.)	26.50 mm (1.04 in.)	22.00 mm (0.87 in.)
Width	51.00 mm (2.01 in.)	60.00 mm (2.36 in.)	66.00 mm (2.60 in.)
Depth	112.00 mm (4.41 in.)	122.00 mm (4.80 in.)	143.00 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
Output current (continuous)	<ul style="list-style-type: none"> 20 V/3.25 A (continuous) 15 V/3.00 A (continuous) 9 V/3.00 A (continuous) 5 V/3.00 A (continuous) 	<ul style="list-style-type: none"> 20 V/5 A (continuous) 15 V/3 A (continuous) 9 V/3 A (continuous) 5 V/3 A (continuous) 	<ul style="list-style-type: none"> 20 V/6.50 A (continuous) 5 V/1.00 A (continuous)
Rated output voltage	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC 	<ul style="list-style-type: none"> 20 VDC 15 VDC 9 VDC 5 VDC 	<ul style="list-style-type: none"> 20 VDC 5 VDC
Temperature range:			
Operating	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)	0°C to 40°C (32°F to 104°F)
Storage	-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)
⚠ 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 Precision 3490.

Table 21. 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.)	5.73 mm (0.22 in.)
	Width	263.00 mm (10.35 in.)	263.00 mm (10.35 in.)	263.00 mm (10.35 in.)	263.00 mm (10.35 in.)
	Depth	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)	68.90 mm (2.71 in.)
Temperature range:					
	Operating	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F) 	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F) 	<ul style="list-style-type: none"> Charge: 0°C to 45°C (32°F to 113°F) Discharge: 0°C to 70°C (32°F to 158°F) 	<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°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 45°C normal express charge. 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. <p>Standard Charge/ Predominately AC</p>	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 45°C normal express charge. 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. <p>Standard Charge/ Predominately AC User Charge Method:</p>	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 45°C normal express charge. 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. <p>Standard Charge/ Predominately AC</p>	<p>Express Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 45°C normal express charge. 46°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. <p>Standard Charge/ Predominately AC</p>

Table 21. Battery specifications (continued)

Description	Option one	Option two	Option three	Option four
	<p>User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. <p>Express Charge Boost Charge Method (Fast Charge for Initial 35%):</p> <ul style="list-style-type: none"> 16°C to 45°C target charge time from 0% to 35% RSOC is 20 minutes for Accelerated Charge. 	<ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. 	<p>User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours. <p>Express Charge Boost Charge Method (Fast Charge for Initial 35%):</p> <ul style="list-style-type: none"> 16°C to 45°C target charge time from 0% to 35% RSOC is 20 minutes for Accelerated Charge. 	<p>User Charge Method:</p> <ul style="list-style-type: none"> 0°C to 15°C maximum allowable charge time from 0% to 100% RSOC is 4 hours. 16°C to 50°C maximum allowable charge time from 0% to 100% RSOC is 3 hours.
Coin-cell battery	CR2032	CR2032	CR2032	CR2032
<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 Precision 3490.

Table 22. Display specifications

Description	Option one	Option two	Option three
Display type	14-inch Full High Definition (FHD)	14-inch Full High Definition (FHD), ComfortView Plus Low Blue Light, battery saving	14-inch Full High Definition (FHD)
Touch options	Yes	No	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.)	173.95 mm (6.84 in.)
Width	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)	309.40 mm (12.18 in.)

Table 22. Display specifications (continued)

Description		Option one	Option two	Option three
	Diagonal	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)	355.60 mm (14.00 in.)
Display-panel native resolution		1920 x 1080	1920 x 1080	1920 x 1080
Luminance (typical)		300 nits	400 nits	250 nits
Megapixels		2.07	2.07	2.07
Color gamut		72% NTSC	100% sRGB	45% NTSC
Pixels Per Inch (PPI)		157	157	157
Contrast ratio (minimum)		600:1	1000:1	600:1
Response time (maximum)		35 millisecond	35 millisecond	35 millisecond
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)		4.60 W	2.50 W	3.10 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 3490.

Table 23. 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 3490.

Table 24. 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 3490.

Table 25. GPU—Integrated

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

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 3490.

Table 26. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA RTX 500 Ada Generation	4 GB	GDDR6

External display support

The following table lists the external display support for your Precision 3490.

Table 27. External display support

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

NOTE: For more information about external display support, see the External Display Connection Guide on www.dell.com/support.

Hardware security

The following table lists the hardware security of your Precision 3490.

Table 28. Hardware security

Hardware security
Trusted Platform Module (TPM) 2.0 discrete
FIPS 140-2 certification for TPM
TCG Certification for TPM (Trusted Computing Group)
Finger Print Reader in Power Button available with and without ControlVault 3 Plus
ControlVault 3 Plus Advanced Authentication with FIPS 140-3 Level 3 Certification
Contacted Smart Card and ControlVault 3 Plus
Contactless Smart Card, NFC, and ControlVault 3 Plus