

OptiPlex Micro 7020

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 OptiPlex Micro 7020

Front

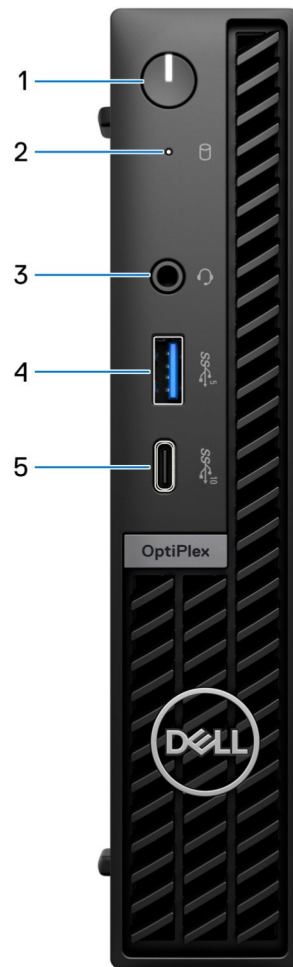


Figure 1. Image: Front view

1. Power button

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

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

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

2. Storage drive activity light

The activity light turns on when the computer reads from or writes to storage drives.

3. Universal audio jack

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

4. USB 3.2 Gen 1 (5 Gbps) port with PowerShare

Connect devices such as external storage devices, printers, and external USB 3.2 Gen 1 (5 Gbps) port with PowerShare displays.

Provides a data transfer speed of up to 5 Gbps. Supports Power Delivery that enables two-way power supply between devices. Provides up to 15 W power output.

NOTE: PowerShare enables you to charge your USB devices even when your computer is turned off.

NOTE: If a USB device is connected to the PowerShare port before the computer is turned off or put in hibernate state, you must disconnect and connect it again to enable charging.

5. USB 3.2 Gen 2 (10 Gbps) Type-C port

Connect devices such as external storage devices and printers.

Provides a data transfer speed of up to 10 Gbps.

NOTE: If the computer is turned off or in a sleep state, USB devices connected to it will not be charged.

Back

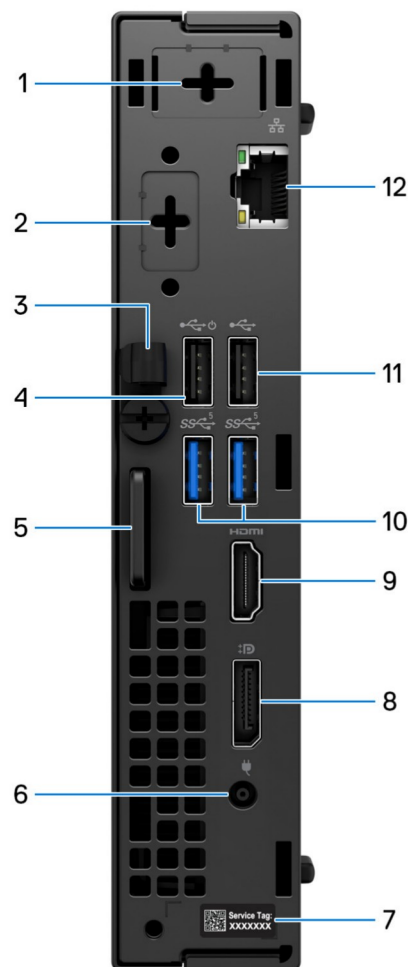


Figure 2. Image: Back view

1. One optional external antenna port

Supports an optional external antenna module.

2. One optional I/O module port

Supports an optional I/O module with one of the following ports:

- HDMI 2.1
- DisplayPort 1.4a (HBR3)
- PS2
- USB Type-C with DisplayPort Alt mode and Power Delivery
- VGA
- Serial

 **NOTE:** You may connect a 90 W Dell USB-C hub monitor to the optional Type-C port as a consolidated power, display, and USB I/O solution for your computer.

3. DC-in cable clip

Use for routing the power-adaptor cable.

4. USB 2.0 port (480 Mbps) with Smart Power On

Connect devices such as external storage devices and printers. Provides a data transfer speed of up to 480 Mbps.

 **NOTE:** When USB wake is enabled in the BIOS, the computer will power on or wake from hibernation when a USB mouse or keyboard that is connected to this port is used.

5. Kensington security-cable slot and padlock ring

Connect a security cable to prevent unauthorized movement of your computer and install a standard padlock to prevent unauthorized access to the interior of your computer.

6. Power-adaptor port

Connect a power adapter to provide power to your computer.

7. 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.

8. DisplayPort 1.4a port

Connect an external display or a projector. Can support video output of up to 4096 x 2304 at 60 Hz.

9. HDMI 1.4b port

Connect a gaming console, Blu-ray player, or other HDMI-out enabled device. Can support video output of up to 1920 x 1200.

10. USB 3.2 Gen 1 (5 Gbps) ports (2)

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

11. USB 2.0 (480 Mbps) port

Connect devices such as external storage devices and printers. Provides data transfer speeds of up to 480 Mbps.

12. 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.

Set up your computer

Steps

1. Connect the keyboard and mouse.

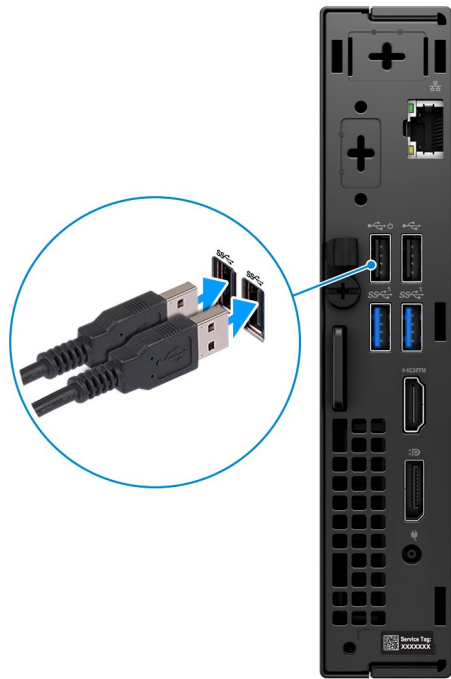


Figure 3. Connect the keyboard and mouse to your OptiPlex Micro 7020

2. Connect to your network using a cable.

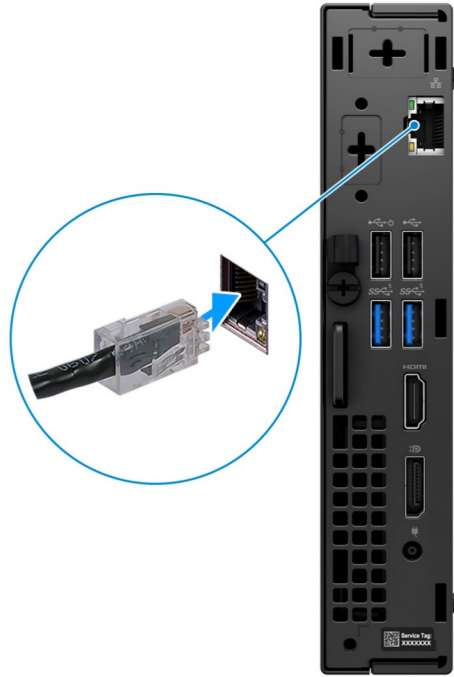


Figure 4. Connect to your network using a cable

NOTE: Alternatively, you can connect to a wireless network.

3. Connect the display.



Figure 5. Connect the display

4. Connect the power cable.



Figure 6. Connect the power cable.

5. Press the power button.



Figure 7. Press the power button

6. 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 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 an existing Microsoft account or create a new account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

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

Table 1. Locate Dell apps

Resources	Description
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware failures. For more information, see <i>SupportAssist for Home PCs User's Guide</i> at SupportAssist for Home PCs . NOTE: In SupportAssist, click the warranty expiry date to renew or upgrade your warranty.
	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 Dell Support Site .
	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 Dell Support Site .

Specifications of OptiPlex Micro 7020

Dimensions and weight

The following table lists the height, width, depth, and weight of your OptiPlex Micro 7020.

Table 2. Dimensions and weight

Description	Values
Height	182 mm (7.17 in.)
Width	36 mm (1.42 in.)
Depth	178 mm (7.01 in.)
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	- Minimum: 1.24 kg (2.73 lb) - Maximum: 1.32 kg (2.91 lb)

Processor

The following table lists the details of the processors that are supported by your OptiPlex Micro 7020.

Table 3. Processor

Description	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Processor type	Intel Core i7 14700T vPro	Intel Core i5 14600T vPro	Intel Core i5 14500T vPro	Intel Core i5 14400T	Intel Core i3 14100T	Intel Core 300T	12th Gen Intel Core i5-12500T vPro	12th Gen Intel Core i3-12100T
Processor wattage	35 W	35 W	35 W	35 W	35 W	35 W	35 W	35 W
Processor total core count	20	14	14	10	4	2	6	4
Performance-cores	8	6	6	6	4	2	6	4
Efficient-cores	12	8	8	4	None	None	None	None
 NOTE: Intel Hyper-Threading Technology is only available on Performance-cores.								
Processor total thread counts	28	20	20	16	8	4	12	8
Processor speed	Up to 5.20 GHz Turbo	Up to 5.10 GHz Turbo	Up to 4.80 GHz Turbo	Up to 4.50 GHz Turbo	Up to 4.40 GHz Turbo	3.40 GHz	Up to 4.40 GHz Turbo	Up to 4.10 GHz Turbo
Performance-cores frequency								

Table 3. Processor (continued)

Description	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Processor base frequency	1.30 GHz	1.80 GHz	1.70 GHz	1.50 GHz	2.70 GHz	3.40 GHz	2 GHz	2.20 GHz
Maximum turbo frequency	5 GHz	5.10 GHz	4.80 GHz	4.50 GHz	4.40 GHz	3.40 GHz	4.40 GHz	4.10 GHz
Efficient-cores frequency								
Processor base frequency	0.90 GHz	1.30 GHz	1.20 GHz	1.10 GHz	Not applicable	Not applicable	Not applicable	Not applicable
Maximum turbo frequency	3.70 GHz	3.60 GHz	3.40 GHz	3.20 GHz	Not applicable	Not applicable	Not applicable	Not applicable
Processor cache	33 MB	24 MB	24 MB	20 MB	12 MB	6 MB	18 MB	12 MB
Integrated graphics	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 770	Intel UHD Graphics 730	Intel UHD Graphics 730	Intel UHD Graphics 710	Intel UHD Graphics 770	Intel UHD Graphics 730

Chipset

The following table lists the details of the chipset supported by your OptiPlex Micro 7020.

Table 4. Chipset

Description	Values
Chipset	Intel Q670
Processor	12th Gen Intel Core i3/i5 vPro - Intel Processor 300T and Intel Core i3/i5/i5 vPro/i7 vPro
DRAM bus width	64-bit
Flash EPROM	32 MB + 16 MB
PCIe bus	Up to Gen4
Non-volatile memory	Yes
BIOS configuration Serial Peripheral Interface (SPI)	256 Mbit (32 MB) located at SPI_FLASH
Trusted Platform Module (TPM) 2.0 (Discrete TPM Enabled)	24 KB located at TPM 2.0 on chipset
Firmware-TPM (Discrete TPM disabled)	By default the Platform Trust Technology feature is visible to the operating system.
NIC EEPROM	LOM configuration contained within SPI flash ROM instead of LOM e-fuse

Operating system

Your OptiPlex Micro 7020 supports the following operating systems:

- Windows 11 Home
- Windows 11 Pro
- Windows 11 Pro National Education
- Ubuntu Linux 22.04 LTS, 64-bit

Memory

The following table lists the memory specifications that are supported by your OptiPlex Micro 7020.

Table 5. Memory specifications

Description	Values
Memory slots	Two SODIMM slots
Memory type	DDR5
Memory speed	• 4800 MT/s • 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	For computers shipped with a 12th Gen Intel Core i3-12100T/i5-12500T vPro or an Intel Core 300T/i3 14100T/i5 14400T/i5 14500T vPro processor: • 8 GB: 1 x 8 GB, DDR5, 4800 MT/s, single-channel • 16 GB: 1 x 16 GB, DDR5, 4800 MT/s, single-channel • 16 GB: 2 x 8 GB, DDR5, 4800 MT/s, dual-channel • 32 GB: 1 x 32 GB, DDR5, 4800 MT/s, single-channel • 32 GB: 2 x 16 GB, DDR5, 4800 MT/s, dual-channel • 64 GB: 2 x 32 GB, DDR5, 4800 MT/s, dual-channel For computers shipped with an Intel Core i5 14600T vPro/i7 14700T vPro processor: • 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: 1 x 32 GB, DDR5, 5600 MT/s, dual-channel • 32 GB: 2 x 16 GB, DDR5, 5600 MT/s, dual-channel • 64 GB: 2 x 32 GB, DDR5, 5600 MT/s, dual-channel

Memory matrix

The following table lists the memory configurations supported on your OptiPlex Micro 7020.

Table 6. Memory matrix

Configuration	Slot	
	DIMM1	DIMM2

Table 6. Memory matrix (continued)

Configuration	Slot	
8 GB DDR5	8 GB	Not used
16 GB DDR5	16 GB	Not used
16 GB DDR5	8 GB	8 GB
32 GB DDR5	32 GB	Not used
32 GB DDR5	16 GB	16 GB
64 GB DDR5	32 GB	32 GB

External ports and slots

The following table lists the external ports and slots on your OptiPlex Micro 7020.

Table 7. External ports and slots

Description	Values
Network port	One RJ45 Ethernet port 10/100/1000 Mbps
USB ports	Front: - One USB 3.2 Gen 1 (5 Gbps) port with PowerShare - One USB 3.2 Gen 2 (10 Gbps) Type-C port Rear: - One USB 2.0 (480 Mbps) port - One USB 2.0 port (480 Mbps) with Smart Power On - Two USB 3.2 Gen 1 (5 Gbps) ports
Audio port	One universal audio jack (front)
Video port(s)	Rear: - One HDMI 1.4b port - One DisplayPort 1.4a port - One video port for an optional video module that supports HDMI 2.1/DisplayPort 1.4a (HBR3)/VGA/USB Type-C with DisplayPort Alt Mode + Power Delivery in
Media-card reader	Not supported
Power-adaptor port	One power-adaptor port
Security-cable slot	- One Kensington lock slot - One padlock ring

Internal slots

The following table lists the internal slots of your OptiPlex Micro 7020.

Table 8. Internal slots

Description	Values
M.2	- One M.2 2230 slot for Wi-Fi and Bluetooth card - Two M.2 2230/2280 slots for solid-state drives

Table 8. Internal slots

Description	Values
	 NOTE: To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at Dell Support Site .

Ethernet

The following table lists the wired ethernet Local Area Network (LAN) specifications of your OptiPlex Micro 7020.

Table 9. Ethernet specifications

Description	Values
Model	Intel WGI219LM
Transfer rate	10/100/1000 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module specifications of your OptiPlex Micro 7020.

Table 10. Wireless module specifications

Description	Option one	Option two	Option three
Model number	Intel AX211	Realtek RTL8852BE	Realtek RTL8851BE
Transfer rate	Up to 2400 Mbps	Up to 1201 Mbps	Up to 600 Mbps
Frequency bands supported	2.40 GHz/5 GHz/6 GHz	2.40 GHz/5 GHz	2.40 GHz/5 GHz
Wireless standards	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac) - Wi-Fi 6E (WiFi 802.11ax)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac) - Wi-Fi 6 (WiFi 802.11ax)	- WiFi 802.11a/b/g - Wi-Fi 4 (WiFi 802.11n) - Wi-Fi 5 (WiFi 802.11ac) - Wi-Fi 6 (WiFi 802.11ax)
Encryption	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP	64-bit/128-bit WEP - AES-CCMP - TKIP
Bluetooth wireless card  NOTE: The functionality of the Bluetooth wireless card may vary based on the operating system.	Bluetooth 5.3 wireless card	Bluetooth 5.3 wireless card	Bluetooth 5.3 wireless card

Audio

The following table lists the audio specifications of your OptiPlex Micro 7020.

Table 11. Audio specifications

Description	Values
Audio type	4 Channel High Definition Audio
Audio controller	Realtek ALC3204 Codec
Internal audio interface	Intel HDA (high-definition audio)
External audio interface	One universal audio jack (front)

Storage

This section lists the storage options on your OptiPlex Micro 7020.

Table 12. Storage matrix

Storage	1st M.2 socket (2230/2280)	2nd M.2 socket (2230/2280)
M.2 solid-state drive (2230)	Yes (SSD0, primary M.2 PCIe for boot function)	Yes (SSD1)
M.2 solid-state drive (2230) + M.2 solid-state drive (2280)	Yes (SSD0, primary M.2 PCIe for boot function)	Yes (SSD1)
M.2 solid-state drive (2280)	Yes (SSD0, primary M.2 PCIe for boot function)	Yes (SSD1)

Table 13. Storage specifications

Storage type	Interface type	Capacity
M.2 2230, Class 25 solid-state drive	PCIe NVMe Gen4	Up to 2 TB
M.2 2230, Class 35, Self-Encrypting Opal 2.0 solid-state drive	PCIe NVMe Gen4	256 GB
M.2 2230, Class 35 solid-state drive	PCIe NVMe Gen4	Up to 1 TB
M.2 2280, Class 40, Self-Encrypting Opal 2.0 solid-state drive	PCIe NVMe Gen4	Up to 1 TB
M.2 2230, Class 40 solid-state drive	PCIe NVMe Gen4	1 TB

Power adapter

The following table lists the power adapter specifications of your OptiPlex Micro 7020.

Table 14. Power-adapter specifications

Description	Option one	Option two
Type	65 W AC adapter	90 W AC adapter
Connector dimensions:		
External diameter	4.50 mm	4.50 mm

Table 14. Power-adaptor specifications (continued)

Description		Option one	Option two
	Internal diameter	2.90 mm	2.90 mm
Power-adaptor dimensions:			
	Height	28 mm (1.10 in.)	32 mm (1.26 in.)
	Width	47 mm (1.85 in.)	52 mm (2.05 in.)
	Depth	108 mm (4.25 in.)	128 mm (5.04 in.)
Input voltage		100 VAC–240 VAC	100 VAC–240 VAC
Input frequency		50 Hz–60 Hz	50 Hz–60 Hz
Input current (maximum)		1.70 A	1.50 A
Output current (continuous)		3.34 A	4.62 A
Rated output voltage		19.50 VDC	19.50 VDC
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)
 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.			

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your OptiPlex Micro 7020.

Table 15. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics 710	- One HDMI 1.4b port (HDMI port resolution is up to 1920 x 1200) - One DisplayPort 1.4a (HBR2 support)	Shared system memory	Intel Core
Intel UHD Graphics 730	- One HDMI 1.4b port (HDMI port resolution is up to 1920 x 1200) - One DisplayPort 1.4a (HBR2 support)	Shared system memory	Intel Core i3/i5/12th Gen Intel Core i3
Intel UHD Graphics 770	- One HDMI 1.4b port (HDMI port resolution is up to 1920 x 1200) - One DisplayPort 1.4a (HBR2 support)	Shared system memory	Intel Core i5 vPro/i7 vPro/12th Gen Intel Core i5 vPro

External display support (GPU—Integrated)

Table 16. External display support (GPU—Integrated)

Integrated graphics card	Number of supported external displays
One HDMI 1.4b + One DisplayPort 1.4a	• Without MST: 2 • With MST: 4
One HDMI 1.4b + One DisplayPort 1.4a + Optional module	• Without MST: 3 • With MST: 4
 NOTE: The resolution and refresh rate of each connected external display may affect the total number of supported external displays.	

Hardware security

The following table lists the hardware security of your OptiPlex Micro 7020.

Table 17. Hardware security

Hardware security
Kensington security-cable slot
Padlock ring
Chassis lock slot support
Chassis intrusion switch

Environmental

The following table lists the environmental specifications of your OptiPlex Micro 7020.

Table 18. Environmental

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	Yes
Vertical orientation packaging support	No
Multi-Pack packaging	Yes
Energy-Efficient Power Supply	Standard
ENV0424 compliant	Yes

 **NOTE:** Wood-based fiber packaging contains a minimum of 35% recycled content by total weight of wood-based fiber. Packaging that contains without wood-based fiber can be claimed as Not Applicable. The anticipated required criteria for EPEAT 2018.

Regulatory compliance

The following table lists the regulatory compliance of your OptiPlex Micro 7020.

Table 19. Regulatory compliance

Regulatory compliance
Product Safety, EMC and Environmental Datasheets
Dell Regulatory Compliance Home Page
Responsible Business Alliance policy

Operating and storage environment

This table lists the operating and storage specifications of your OptiPlex Micro 7020.

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

Table 20. Computer environment

Description	Operating	Storage
Temperature range	10°C to 35°C (50°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
Relative humidity (maximum)	20% to 80% (non-condensing)	5% to 95% (non-condensing)
Vibration (maximum)*	0.26 GRMS	1.37 GRMS
Shock (maximum)	40 G†	105 G†
Altitude range	-15.2 m to 3048 m (4.64 ft to 5518.4 ft)	-15.2 m to 10668 m (4.64 ft to 19234.4 ft)
 CAUTION: Operating and storage temperature ranges may differ among components, so operating or storing the device outside these ranges may impact the performance of specific components.		

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

† Measured using a 2 ms half-sine pulse.