Precision 3660 Tower

Setup and Specifications

Regulatory Model: D30M
Regulatory Type: D30M001
March 2023
Rev. A03

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.

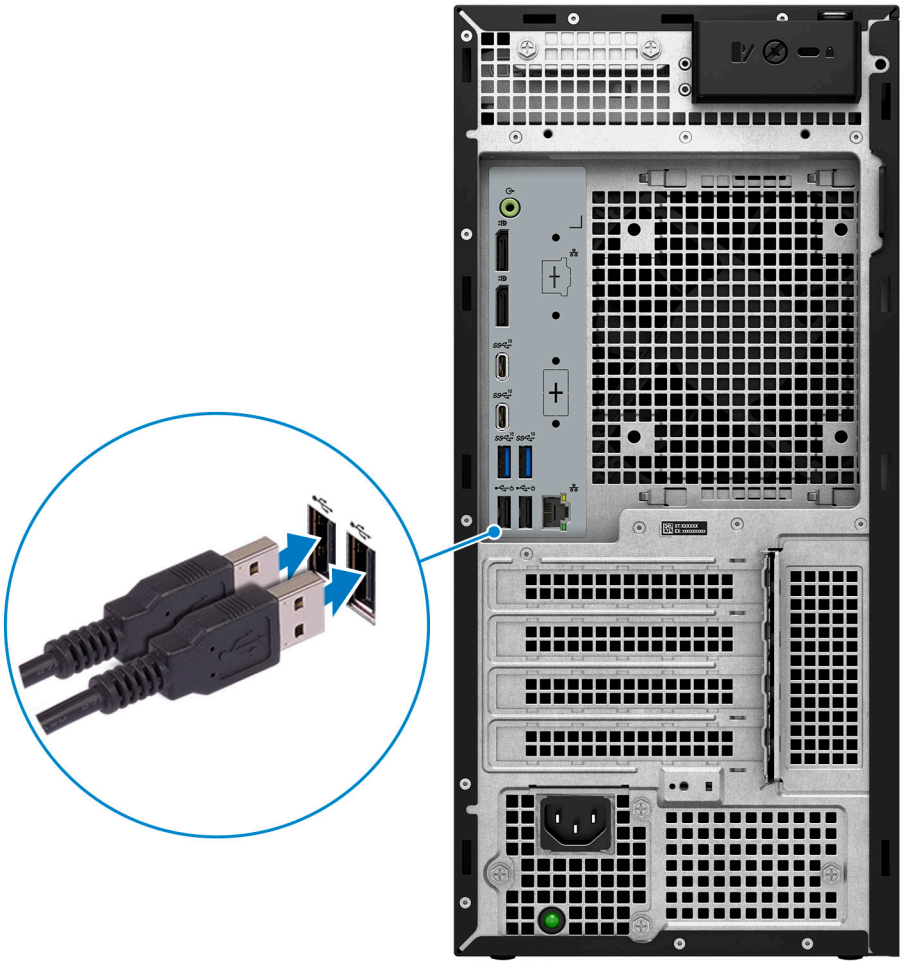
Contents

1

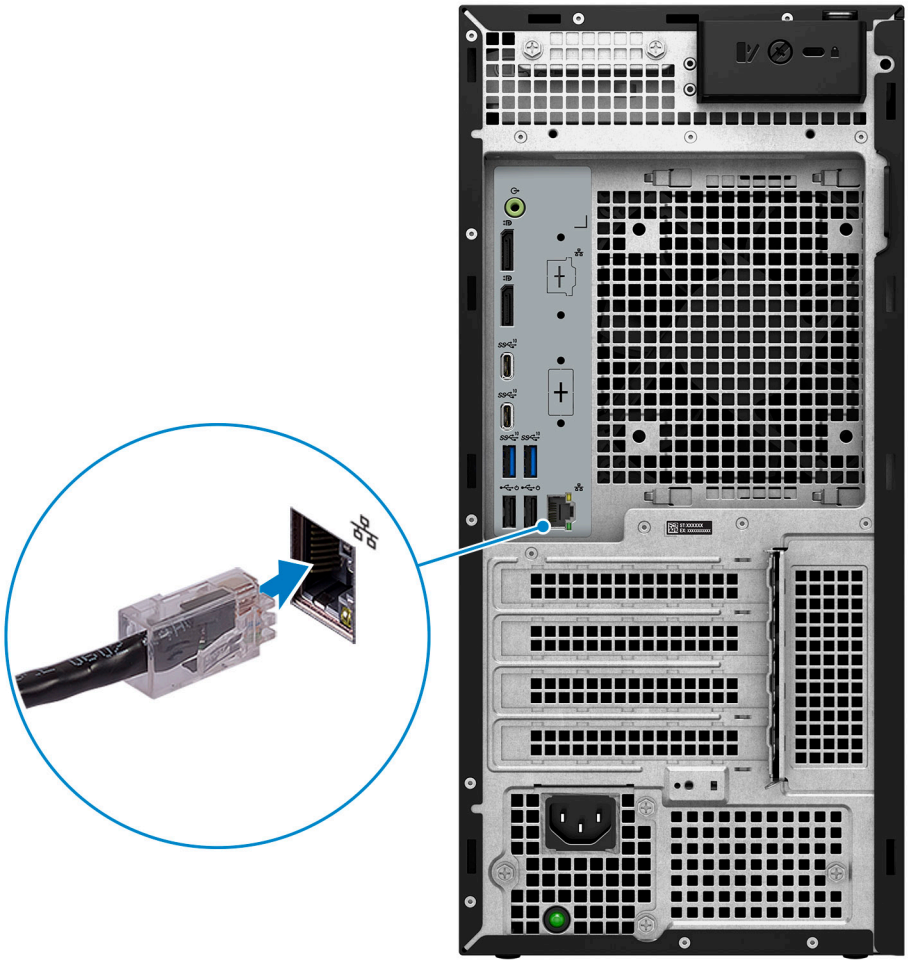
Set up your computer

Steps

1. Connect the keyboard and mouse.



2. Connect to your network using a cable.

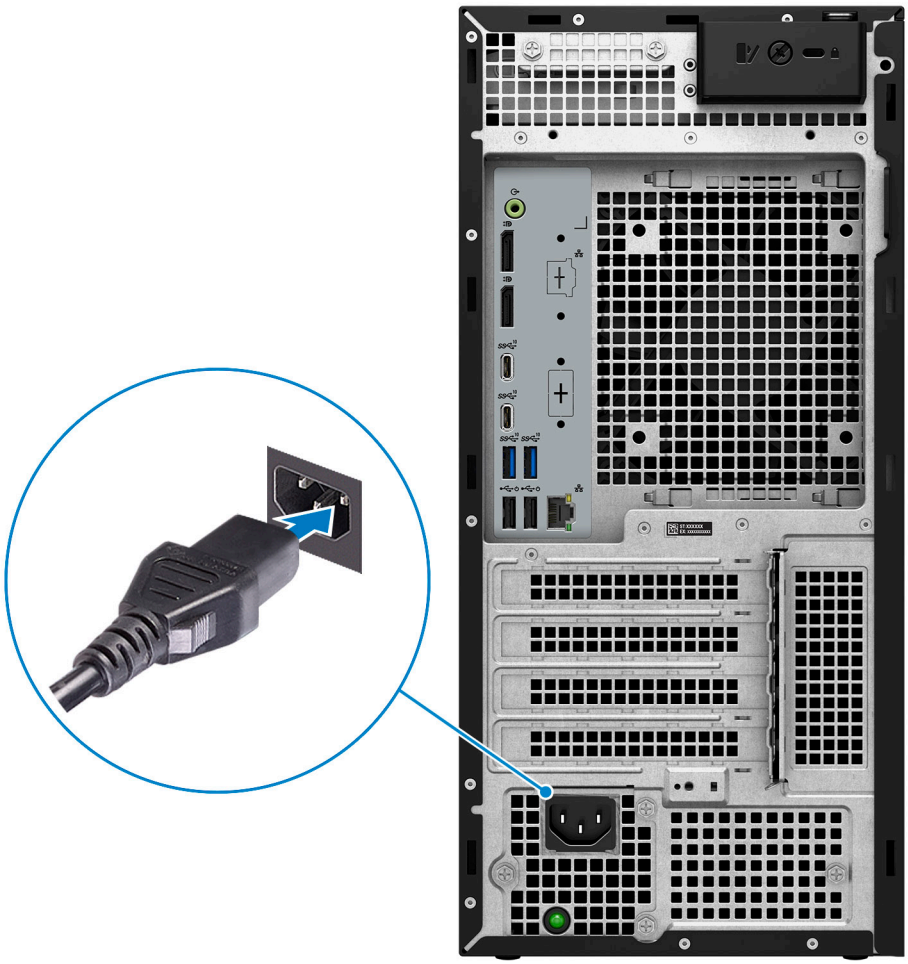


NOTE: Alternatively, you can connect to a wireless network.

3. Connect the display.

NOTE: If you ordered your computer with a discrete graphics card, the HDMI and the display ports on the back panel of your computer are covered. Connect the display to the port on the discrete graphics card.

4. Connect the power cable.



CAUTION: Please connect the power cable to a power distribution Unit (PDU) 16A and then connect the PDU to the wall outlet.

5. Press the power button.

6. Finish Windows setup.

   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.

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

Table 1. Locate Dell apps

Resources	Description
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.
	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

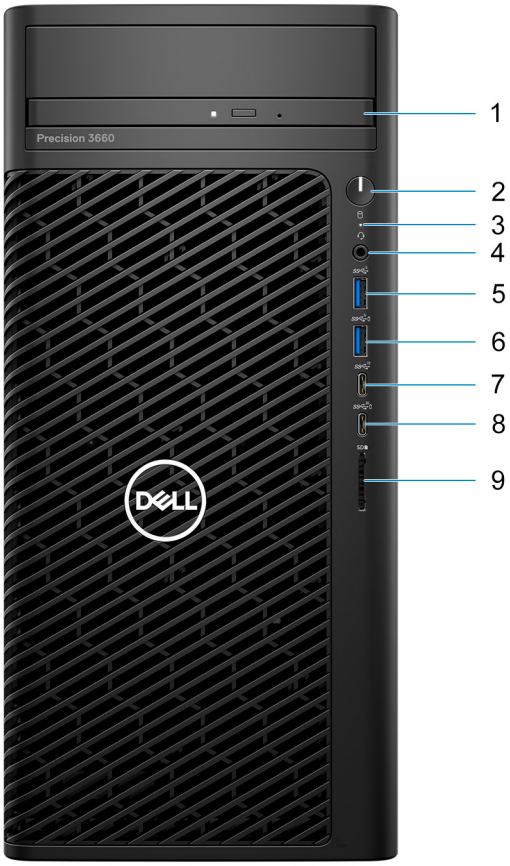
Table 1. Locate Dell apps (continued)

Resources	Description
	failures. For more information, see *SupportAssist for Home PCs User's Guide* at www.dell.com/serviceabilitytools. Click **SupportAssist** and then, click **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 on using Dell Update, search in the Knowledge Base Resource at www.dell.com/support.
	**Dell Digital Delivery** Download software applications, which are purchased but not preinstalled on your computer. For more information on using Dell Digital Delivery, search in the Knowledge Base Resource at www.dell.com/support.

2

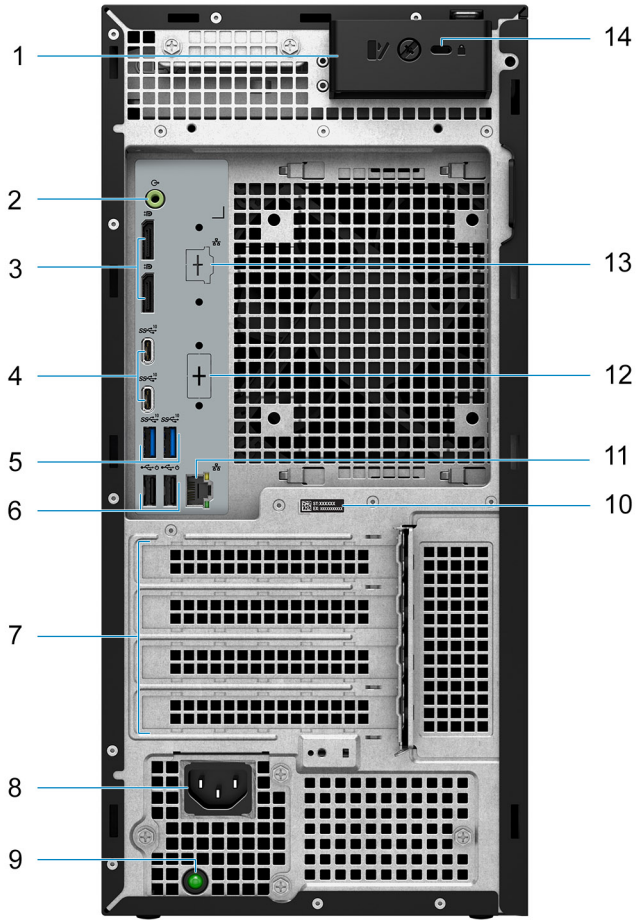
Chassis overview

Display



1. Optical disk-drive
2. Power button with diagnostic LED
3. Hard-disk drive activity light
4. Universal audio jack
5. USB 3.2 Gen 1 (5 Gbps) port
6. USB 3.2 Gen 1 (5 Gbps) port with PowerShare
7. USB 3.2 Type-C Gen 2 (10 Gbps) port
8. USB 3.2 Type-C Gen 2x2 (20 Gbps) port with PowerShare
9. SD 4.0 card reader

Back



1. Side cover release latch
2. Line-out audio port
3. Two DisplayPort 1.4 ports
4. Two USB 3.2 Type-C Gen 2 (10 Gbps) ports
5. Two USB 3.2 Gen 2 (10 Gbps) ports
6. Two USB 2.0 (480 Mbps) ports with SmartPower
7. Expansion card slots
8. Power cord connector port
9. Power supply diagnostic light
10. Service tag label
11. RJ45 port 10/100/1000 Mbps
12. HDMI 2.0/ DisplayPort 1.4/ VGA/ USB Type-C with DisplayPort Alt mode (optional)
13. 2.5 GbE RJ-45 port (optional)
14. Kensington security-cable slot

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Specifications of Precision 3660 Tower

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 3660 Tower.

Table 2. Dimensions and weight

Description	Values
Height	372.90 mm (14.68 in.)
Width	173.00 mm (6.81 in.)
Depth	420.20 mm (16.54 in.)
Weight **NOTE:** The weight of your computer depends on the configuration ordered and manufacturing variability.	• Minimum - 8.44 kg (18.60 lb) • Maximum - 16.36 kg (36.06 lb)

Processors

The following table lists the details of the processors supported by your Precision 3660 Tower.

Table 3. Processors

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
13th Generation Intel Core i9-13900K, vPro	125 W	24	32	2.2 GHz to 5.8 GHz	36 MB	Intel UHD Graphics 770
13th Generation Intel Core i9-13900, vPro	65 W	24	32	1.5 GHz to 5.6 GHz	36 MB	Intel UHD Graphics 770
13th Generation Intel Core i7-13700K, vPro	125 W	16	24	2.5 GHz to 5.4 GHz	30 MB	Intel UHD Graphics 770
13th Generation Intel Core i7-13700, vPro	65 W	16	24	1.5 GHz to 5.2 GHz	30 MB	Intel UHD Graphics 770
13th Generation Intel Core i5-13600K, vPro	125 W	14	20	2.6 GHz to 5.1 GHz	24 MB	Intel UHD Graphics 770
13th Generation Intel Core i5-13600, vPro	65 W	14	20	2.0 GHz to 5.0 GHz	24 MB	Intel UHD Graphics 770

Table 3. Processors (continued)

Processors	Wattage	Core count	Thread count	Speed	Cache	Integrated graphics
13th Generation Intel Core i5-13500, vPro	65 W	14	20	1.8 GHz to 4.8 GHz	24 MB	Intel UHD Graphics 770
13th Generation Intel Core i5-13400	65 W	10	16	1.8 GHz to 4.6 GHz	20 MB	Intel UHD Graphics 730
13th Generation Intel Core i3-13100	60 W	4	8	3.4 GHz to 4.5 GHz	12 MB	Intel UHD Graphics 730
12th Generation Intel Core i9-12900K, vPro	125 W	16	24	3.2 GHz to 5.2 GHz	30 MB	Intel UHD Graphics 770
12th Generation Intel Core i9-12900, vPro	65 W	16	24	2.4 GHz to 5.1 GHz	30 MB	Intel UHD Graphics 770
12th Generation Intel Core i7-12700K, vPro	125 W	12	20	3.6 GHz to 5.0 GHz	25 MB	Intel UHD Graphics 770
12th Generation Intel Core i7-12700, vPro	65 W	12	20	2.1 GHz to 4.9 GHz	25 MB	Intel UHD Graphics 770
12th Generation Intel Core i5-12600K, vPro	125 W	10	16	3.7 GHz to 4.9 GHz	20 MB	Intel UHD Graphics 770
12th Generation Intel Core i5-12600, vPro	65 W	6	12	3.3 GHz to 4.8 GHz	18 MB	Intel UHD Graphics 770
12th Generation Intel Core i5-12500, vPro	65 W	6	12	3.0 GHz to 4.6 GHz	18 MB	Intel UHD Graphics 770
12th Generation Intel Core i3-12100	60 W	4	8	3.3 GHz to 4.3 GHz	12 MB	Intel UHD Graphics 730

Chipset

The following table lists the details of the chipset supported by your Precision 3660 Tower.

Table 4. Chipset

Description	Values
Chipset	W680
Processor	• 13th Generation Intel Core i3/i5/i7/i9 • 12th Generation Intel Core i3/i5/i7/i9
DRAM bus width	2*32-bit per DIMM

Table 4. Chipset (continued)

Description	Values
Flash EPROM	16 MB + 32 MB
PCIe bus	Up to Gen5

Operating system

Your Precision 3660 Tower supports the following operating systems:

- Windows 11 Home, 64-bit
- Windows 11 Pro, 64-bit
- Windows 11 Pro National Education, 64-bit
- Windows 11 Downgrade (Windows 10 image)
- Windows 10 IoT 2021 LTSC (OEM only)
- Windows 10 CMIT Government Edition, 64-bit (China only)
- Kylin Linux version 10 SP1 (China only)
- Ubuntu Linux 22.04 LTS, 64-bit
- RHEL 8.6

Memory

The following table lists the memory specifications of your Precision 3660 Tower.

Table 5. Memory specifications

Description	Values
Memory slots	Four-DIMM slots **NOTE:** Up to 128 GB or up to 4400 MHz ECC and Non-ECC DDR5
Memory type	DDR5
Memory speed	Maximum speed: 4400 MHz **NOTE:** Maximum memory speed varies by the following configuration on each channel. If the 2 DIMM configuration is not symmetrical, the maximum speed may drop. • 4400 MHz : 1 DIMM-1R/2R • 4000 MHz : 2 DIMM-1R • 3600 MHz : 2 DIMM-2R
Maximum memory configuration	128 GB
Minimum memory configuration	8 GB
Memory size per slot	8 GB, 16 GB, and 32 GB
Memory configurations supported	• 8 GB, 1 x 8 GB, DDR5, 4400 MHz, non-ECC • 16 GB, 2 x 8 GB, DDR5, 4400 MHz, non-ECC, dual-channel • 32 GB, 2 x 16 GB, DDR5, 4400 MHz, non-ECC, dual-channel • 64 GB, 2 x 32 GB, DDR5, 4400 MHz, non-ECC, dual-channel

Table 5. Memory specifications (continued)

Description	Values
	• 32 GB, 4 x 8 GB, DDR5, 4000 MHz, non-ECC, dual-channel • 64 GB, 4 x 16 GB, DDR5, 4000 MHz, non-ECC, dual-channel • 128 GB, 4 x 32 GB, DDR5, 3600 MHz, non-ECC, dual-channel • 16 GB, 1 x 16 GB, DDR5, 4400 MHz, ECC • 32 GB, 2 x 16 GB, DDR5, 4400 MHz, ECC, dual-channel • 64 GB, 2 x 32 GB, DDR5, 4400 MHz, ECC, dual-channel • 64 GB 4 x 16 GB, DDR5, 4000 MHz, ECC, dual-channel • 128 GB 4 x 32 GB, DDR5, 3600 MHz, ECC, dual-channel **NOTE:** ECC memory is not supported on Intel Core i3-12100, i3-13100 and i3-13400 processors.

Memory matrix

The following table lists the memory configurations supported on your Precision 3660 Tower.

Table 6. Memory matrix

Configuration	Slot			
	DIMM1	DIMM2	DIMM3	DIMM4
8 GB DDR5	8 GB	NA	NA	NA
16 GB DDR5	16 GB	NA	NA	NA
16 GB DDR5	8 GB	8 GB	NA	NA
32 GB DDR5	16 GB	16 GB	NA	NA
64 GB DDR5	32 GB	32 GB	NA	NA
32 GB DDR5	8 GB	8 GB	8 GB	8 GB
64 GB DDR5	16 GB	16 GB	16 GB	16 GB
128 GB DDR5	32 GB	32 GB	32 GB	32 GB

NOTE: 8 GB configuration available only for non-ECC memory.

External ports

The following table lists the external ports of your Precision 3660 Tower.

Table 7. External ports

Description	Values
Network port	• One RJ45 Ethernet port, 1 GbE • One RJ45 Ethernet port, 2.5 GbE (optional)
USB ports	Front: • One USB 3.2 Gen 1 (5 Gbps) port with PowerShare • One USB 3.2 Gen 1 (5 Gbps) port

Table 7. External ports (continued)

Description	Values
	• One USB 3.2 Type-C Gen 2 (10 Gbps) port • One USB 3.2 Type-C Gen 2x2 (20 Gbps) port with PowerShare Rear: • Two USB 2.0 (480 Mbps) ports with Smart Power On • Two USB 3.2 Gen 2 (10 Gbps) ports • Two USB 3.2 Type-C Gen 2 (10 Gbps) ports
Audio port	• Front: Universal audio jack • Rear: Line-out audio port
Video port	• Two DisplayPort 1.4 (HBR2) ports • One Optional video port (HDMI 2.0/ DisplayPort 1.4(HBR3)/ VGA/ USB Type-C with DisplayPort Alt mode) **NOTE:** Download and install the latest Intel Graphics driver from www.dell.com/support to enable multiple displays.
Media-card reader	One SD-card slot
Power-adapter port	NA
Security-cable slot	One Kensington security-cable slot

Internal slots

The following table lists the internal slots of your Precision 3660 Tower.

Table 8. Internal slots

Description	Values
M.2	• One M.2 2230 slot for WiFi and Bluetooth card • Two M.2 2230/2280 slots (SSD0 and SSD1) for solid-state drives • One M.2 2280 slot (SSD2) for solid-state drive **NOTE:** SSD0 slot natively supports M.2 2280 SSDs. M.2 2230 SSDs can be installed on this slot by using an extender part only. **NOTE:** SSD1 slot natively supports M.2 2230 and M.2 2280 SSDs. **NOTE:** SSD2 slot natively supports only M.2 2280 SSDs. **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.
SATA	• Five SATA 3 slots
PCIe	• One PCIe x16 Gen5 (discrete graphics card only) • One PCIe x4 Gen4 • One PCIe x4 Gen3

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Precision 3660 Tower.

Table 9. Ethernet specifications

Description	Option one	Option two
Model number	Intel I219-LM	Intel I225 (optional)
Transfer rate	10/100/1000 Mbps	10/ 100/ 1000/ 2500 Mbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) modules that are supported on your Precision 3660 Tower.

Table 10. Wireless module specifications

Description	Option one	Option two
Model number	Intel AX211	Qualcomm WCN6856-DBS
Transfer rate	2400 Mbps	Up to 3571 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz **NOTE:** The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.	2.4 GHz/5 GHz/6 GHz **NOTE:** The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.
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 6E (WiFi 802.11ax)
Encryption	• 64-bit/128-bit WEP • AES-CCMP • TKIP	• 64-bit and 128-bit WEP • AES-CCMP • TKIP
Bluetooth wireless card	5.3	5.3
	NOTE: The version of the Bluetooth wireless card may vary depending on the operating system that is installed on your computer.	

Audio

The following table lists the audio specifications of your Precision 3660 Tower.

Table 11. Audio specifications

Description	Values
Audio type	4 Channel High Definition Audio Codec
Audio controller	Realtek ALC3246-CG
Stereo conversion	24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)

Table 11. Audio specifications (continued)

Description		Values
Internal audio interface		Intel HDA (high-definition audio)
External audio interface		• One universal audio jack (front) • One line-out audio port (rear)
Number of speakers		One (optional)
Internal-speaker amplifier		Integrated in ALC3246-CG (Class-D 2 W)
External volume controls		Keyboard shortcut controls
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.2 W
Subwoofer output		Not supported
Microphone		Not supported

Storage

This section lists the storage options on your Precision 3660 Tower.

- M.2 SSD Boot + Optional M.2 SSDs – This configuration enables boot on M.2 NVMe SSD with up to three additional NVMe SSDs. No SATA HDDs are configured in this option.
- 2.5" SATA HDD Boot + Optional 2.5" SATA HDDs – This configuration enables boot on 2.5" SATA HDD with up to three additional 2.5" SATA HDDs.
- 3.5" HDD Boot + Optional 3.5" HDDs – This configuration enables boot on 3.5" HDD with up to one additional 3.5" HDD.
- M.2 SSD Boot + Optional M.2 SSDs + 2.5" SATA HDD + Optional 2.5" SATA HDDs – This configuration enables boot on M.2 NVMe SSD with up to three additional NVMe SSDs, one 2.5" SATA HDD and up to three additional 2.5" SATA HDDs.
- M.2 SSD Boot + Optional M.2 SSD + 3.5" SATA HDD + Optional 3.5" SATA HDDs – This configuration enables boot on M.2 NVMe SSD with up to three additional NVMe SSDs, one 3.5" SATA HDD and one additional 3.5" SATA HDD.
- M.2 SSD Boot + Optional SSDs + Front-accessible 2.5" SATA HDD + Optional 2.5" SATA HDDs - This configuration enabled boot on M.2 NVMe SSD with up to three additional NVMe SSDs, one front-accessible 2.5" SATA HDD and two additional 2.5" SATA HDDs
- M.2 SSD Boot + Optional SSDs + Front-accessible 3.5" SATA HDD + Optional 3.5" SATA HDDs - This configuration enabled boot on M.2 NVMe SSD with up to three additional NVMe SSDs, one front-accessible 3.5" SATA HDD and up to two additional 3.5" SATA HDDs
- RAID 0/1/5/10 available.

NOTE: M.2 NVMe SSD cannot build RAID disk with any SATA drive.

NOTE: Precision 3660 motherboard can support up to two M.2 2230 NVMe SSDs or up to three M.2 2280 NVMe SSDs.

Table 12. Storage specifications

Storage type	Interface type	Capacity
2.5-inch, 7200 RPM, hard-disk drive	SATA 3.0	Up to 1 TB
2.5-inch, 7200 RPM, FIPS Self Encrypting Opal 2.0, hard-disk drive	SATA 3.0	500 GB
3.5-inch, 5400 RPM, hard-disk drive	SATA 3.0	4 TB

Table 12. Storage specifications (continued)

Storage type	Interface type	Capacity
3.5-inch, 7200 RPM, hard-disk drive	SATA 3.0	Up to 2 TB
3.5-inch, 7200 RPM, Enterprise hard-disk drive	SATA 3.0	Up to 8 TB
M.2 2230 solid-state drive	PCIe NVMe Gen3 x4, Class 35	256 GB
M.2 2230 solid-state drive	PCIe NVMe Gen4 x4, Class 35	256 GB
M.2 2280 solid-state drive	PCIe NVMe Gen4 x4, Class 40	Up to 4 TB
M.2 2280 Opal Self-Encrypting solid-state drive	PCIe NVMe Gen3 x4, Class 40	Up to 1 TB
M.2 2280 Opal Self-Encrypting solid-state drive	PCIe NVMe Gen4 x4, Class 40	Up to 1 TB

Media-card reader

The following table lists the media cards supported by your Precision 3660 Tower.

Table 13. Media-card reader specifications

Description	Values
Media-card type	One SD-card slot **NOTE:** The SD-card reader maybe from different manufacturers and will require specific drivers to be installed.
Media-cards supported	• Secure Digital (SD) • Secure Digital High Capacity (SDHC) • Secure Digital Extended Capacity (SDXC)
NOTE: The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.	

Power ratings

The following table lists the power rating specifications of Precision 3660 Tower.

Table 14. Power ratings

Description	Values			
Type	300 W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum	500 W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum	750 W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum	1000 W internal power supply unit, 92% Efficient PSU, 80 Plus Platinum
Input voltage	90 VAC to 264 VAC	90 VAC to 264 VAC	90 VAC to 264 VAC	90 VAC to 264 VAC
Input frequency	47 Hz to 63 Hz	47 Hz to 63 Hz	47 Hz to 63 Hz	47 Hz to 63 Hz
Input current (maximum)	• 4.2 A	• 7 A	• 10 A	• 13.6 A

Table 14. Power ratings (continued)

Description	Values			
Output current (continuous)	• 12 VA/18 A • 12 VB/18 A Standby mode: • 12 VA/1.5 A • 12 VB/3.3 A	• 12 VA/18 A • 12 VB/18 A • 12 VC/18 A Standby mode: • 12 VA/1.5 A • 12 VB/3.3 A • 12 VC/0 A	• 12 VA/36 A • 12 VB/27 A • 12 VC/36 A Standby mode: • 12 VA/1.5 A • 12 VB/5 A • 12 VC/0 A	• 12 VA/36 A • 12 VB/27 A • 12 VC/36 A Standby mode: • 12 VA/1.5 A • 12 VB/5 A • 12 VC/0 A
Rated output voltage	• 12 VA • 12 VB	• 12 VA • 12 VB • 12 VC	• 12 VA • 12 VB • 12 VC	• 12 VA • 12 VB • 12 VC
Temperature range				
Operating	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°F)	5°C to 45°C (41°F to 113°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)	-40°C to 70°C (-40°F to 158°F)

Power supply connector

The following table lists the Power supply connector specifications of your Precision 3660 Tower.

Table 15. Power supply connector

300 W (80 PLUS Platinum)	• Two 4 pin connectors for processor • One 8 pin connector for system board
500 W (80 PLUS Platinum)	• Two 4 pin connectors for processor • One 8 pin connector for system board • One 6 pin and one 2 + 6 pin connectors for graphic card
750 W (80 PLUS Platinum)	• Two 4 pin connectors for processor • One 8 pin connector for system board • Two 6 pin and two 2 + 6 pin connectors for graphic card
1000 W (80 PLUS Platinum)	• Two 4 pin connectors for processor • One 8 pin connector for system board • Two 6 pin and two 2 + 6 pin connectors for graphic card

NOTE: This workstation uses high wattage power supply unit and has to be connected to a PDU (Power Distribution Unit) at all times for protection of equipment.

GPU—Integrated

The following table lists the specifications of the integrated Graphics Processing Unit (GPU) supported by your Precision 3660 Tower.

Table 16. GPU—Integrated

Controller	External display support	Memory size	Processor
Intel UHD Graphics 730	• Two DisplayPort 1.4 port	Shared system memory	• 12th Generation Intel Core i3-12100

Table 16. GPU—Integrated (continued)

Controller	External display support	Memory size	Processor
	• One Optional video port (HDMI 2.0b/ DisplayPort 1.4/VGA/ USB Type-C with DisplayPort Alt mode)		• 13th Generation Intel Core i3-13100 and i5-13400
Intel UHD Graphics 770	• Two DisplayPort 1.4 port • One Optional video port (HDMI 2.0b/ DisplayPort 1.4/VGA/ USB Type-C with DisplayPort Alt mode)	Shared system memory	• 12th Generation Intel Core i5//i7/i9 • 13th Generation Intel Core i7/i9, i5-13500, i5-13600 and i5-13600k.

Multiple display support matrix

The following table lists the multiple display support matrix for your Precision 3660 Tower.

Table 17. Multiple display support matrix

Description	Option one	Option two
Integrated Graphics Card	Intel UHD Graphics 730	Intel UHD Graphics 770
Optional Module	HDMI 2.0/ DisplayPort 1.4/ VGA/ USB Type-C with DisplayPort Alt mode	HDMI 2.0/ DisplayPort 1.4/ VGA/ USB Type-C with DisplayPort Alt mode
Supported 4K Displays	DP1.4 HBR2, 4096 x 2304 @ 60 Hz	DP1.4 HBR2, 4096 x 2304 @ 60 Hz
Supported 5K Displays	5K tiled resolution (5120 x 2880) support on DP panels. **NOTE:** Needs two DP cables driven through two separate DDIs from the source, and using DP-SST (Single Stream Transport) mechanism.	5K tiled resolution (5120 x 2880) support on DP panels. **NOTE:** Needs two DP cables driven through two separate DDIs from the source, and using DP-SST (Single Stream Transport) mechanism.

GPU — Discrete

The following table lists the specifications of the discrete graphics processing unit (GPU) supported by your Precision 3660 Tower.

Table 18. GPU — Discrete

Controller	External display support	Memory size	Memory type
NVIDIA RTX 3060	• Four DisplayPort 1.4 ports	12 GB	GDDR6
NVIDIA RTX 3070	• Four DisplayPort 1.4 ports	8 GB	GDDR6
NVIDIA RTX 3080	• Four DisplayPort 1.4 ports	10 GB	GDDR6X
NVIDIA RTX 3080TI	• Four DisplayPort 1.4 ports	12 GB	GDDR6X
NVIDIA RTX 3090	• Four DisplayPort 1.4 ports	24 GB	GDDR6X
NVIDIA RTX 3090TI	• Four DisplayPort 1.4 ports	24 GB	GDDR6X
NVIDIA RTX A2000	• Four mini DisplayPort (mDP) ports	12 GB	GDDR6

Table 18. GPU — Discrete (continued)

Controller	External display support	Memory size	Memory type
NVIDIA RTX A4000	• Four DisplayPort 1.4 ports	16 GB	GDDR6
NVIDIA RTX A4500	• Four DisplayPort 1.4 ports	20 GB	GDDR6
NVIDIA RTX A5000	• Four DisplayPort 1.4 ports	24 GB	GDDR6
NVIDIA RTX A5500	• Four DisplayPort 1.4 ports	24 GB	GDDR6
NVIDIA RTX A6000	• Four DisplayPort 1.4 ports	48 GB	GDDR6
NVIDIA T1000	• Four DisplayPort 1.4 ports	8 GB	GDDR6
NVIDIA T400	• Three mini DisplayPort (mDP) ports	4 GB	GDDR6
AMD Radeon Pro RX6900XT	• Two DisplayPort 1.4 ports • One HDMI 2.1 port • One USB Type-C port	16 GB	GDDR6
AMD Radeon Pro W6800	• Six mini DisplayPort (mDP) ports	32 GB	GDDR6
AMD Radeon Pro W6600	• Four DisplayPort 1.4 ports	8 GB	GDDR6
AMD Radeon Pro W6400	• Four mini DisplayPort (mDP) ports	4 GB	GDDR6

Hardware security

The following table lists the hardware security of your Precision 3660 Tower.

Table 19. Hardware security

Hardware security
Kensington security-cable slot
Padlock loop
Chassis lock support - Captive screw
Lockable Bezel and Key for front-accessible SATA HDD **NOTE:** Included with front-accessible storage configurations
Chassis intrusion switch
Lockable cable covers
Supply chain tamper alerts
SafeID including Trusted Platform Module (TPM) 2.0
Smart card keyboard (FIPS)
Microsoft 10 Device Guard and Credential Guard (Enterprise SKU)

Table 19. Hardware security (continued)

Hardware security
Microsoft Windows Bitlocker
Local hard drive data wipe through BIOS (Secure Erase)
Self-encrypting storage drives (Opal, FIPS)
Trusted Platform Module TPM 2.0 (FIPs 140-2 certificate) **NOTE:** No Hardware TPM will be implemented.
China TPM
Intel Secure Boot
Intel Authenticate
SafeBIOS: includes Dell Off-host BIOS Verification, BIOS Resilience, BIOS Recovery, and additional BIOS Controls

Environmental

The following table lists the environmental specifications of your Precision 3660 Tower.

Table 20. Environmental

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free	No
Vertical orientation packaging support	Yes
Multi-Pack packaging	Yes (US only) (optional)
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 Precision 3660 Tower.

Table 21. Regulatory compliance

Regulatory compliance
Product Safety, EMC and Environmental Datasheets
Dell Regulatory Compliance Home page
Dell and the Environment

Operating and storage environment

This table lists the operating and storage specifications of your Precision 3660 Tower.

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

Table 22. Computer environment

Description	Operating	Storage
Temperature range	10°C-35°C (50°F-95°F)	-40°C-65°C (-40°F-149°F)
Relative humidity (maximum)	20% to 85% (non-condensing) (non-condensing, Max dew point temperature = 26°C)	0% to 95% (non-condensing) 5% to 95% (non-condensing, Max dew point temperature = 33°C)
Vibration (maximum)*	0.52 GRMS random at 5 Hz-350 Hz	2.0 GRMS random at 5 Hz-500 Hz
Shock (maximum)	40G Bottom half-sine pulse (2.5 ms)	105G half-sine pulse (2.5 ms)
Altitude range	-15.2 m to 3048 m (4.64 ft to 10,000 ft)	-15.2 m to 10,668 m (4.64 ft to 35,000 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 user environment.

† Measured using a 2 ms half-sine pulse.

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Getting help and contacting Dell

Self-help resources

You can get information and help on Dell products and services using these self-help resources:

Table 23. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
My Dell app	
Tips	
Contact Support	In Windows search, type `Contact Support`, and press Enter.
Online help for operating system	www.dell.com/support/windows www.dell.com/support/linux
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	Your Dell computer is uniquely identified by a Service Tag or Express Service Code. To view relevant support resources for your Dell computer, enter the Service Tag or Express Service Code at www.dell.com/support. For more information on how to find the Service Tag for your computer, see Locate the Service Tag on your computer.
Dell knowledge base articles for a variety of computer concerns	1. Go to www.dell.com/support. 2. On the menu bar at the top of the Support page, select **Support** > **Knowledge Base**. 3. In the Search field on the Knowledge Base page, type the keyword, topic, or model number, and then click or tap the search icon to view the related articles.

Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see www.dell.com/contactdell.

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

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