

Precision 5860 Tower

Setup and Specifications

Notes, cautions, and warnings

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

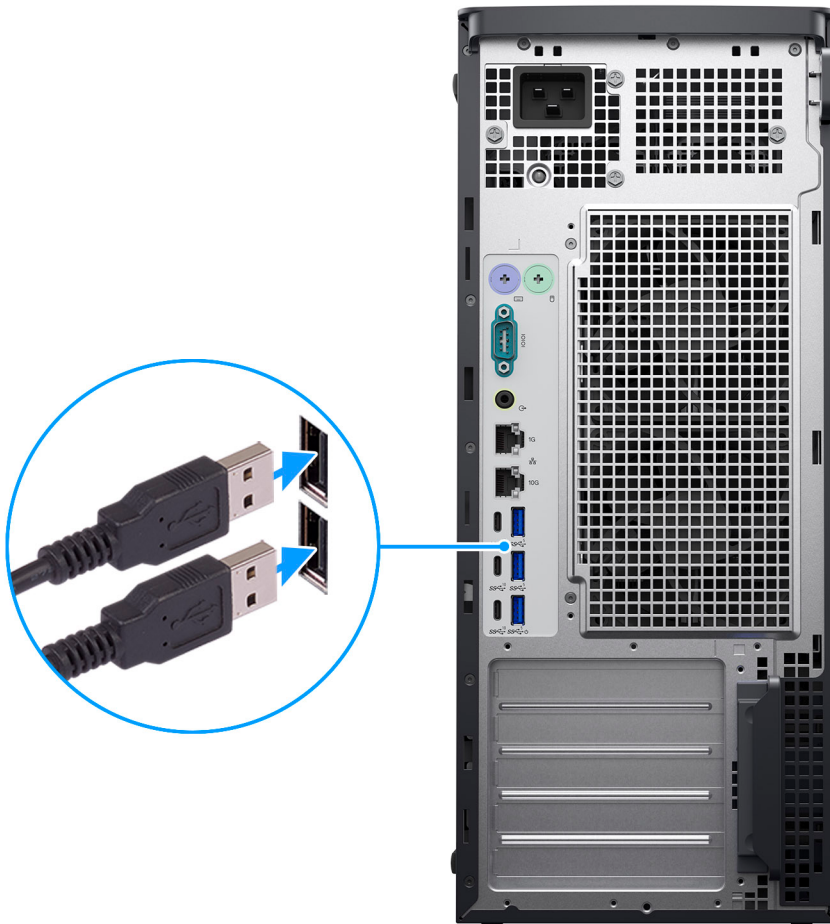
 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

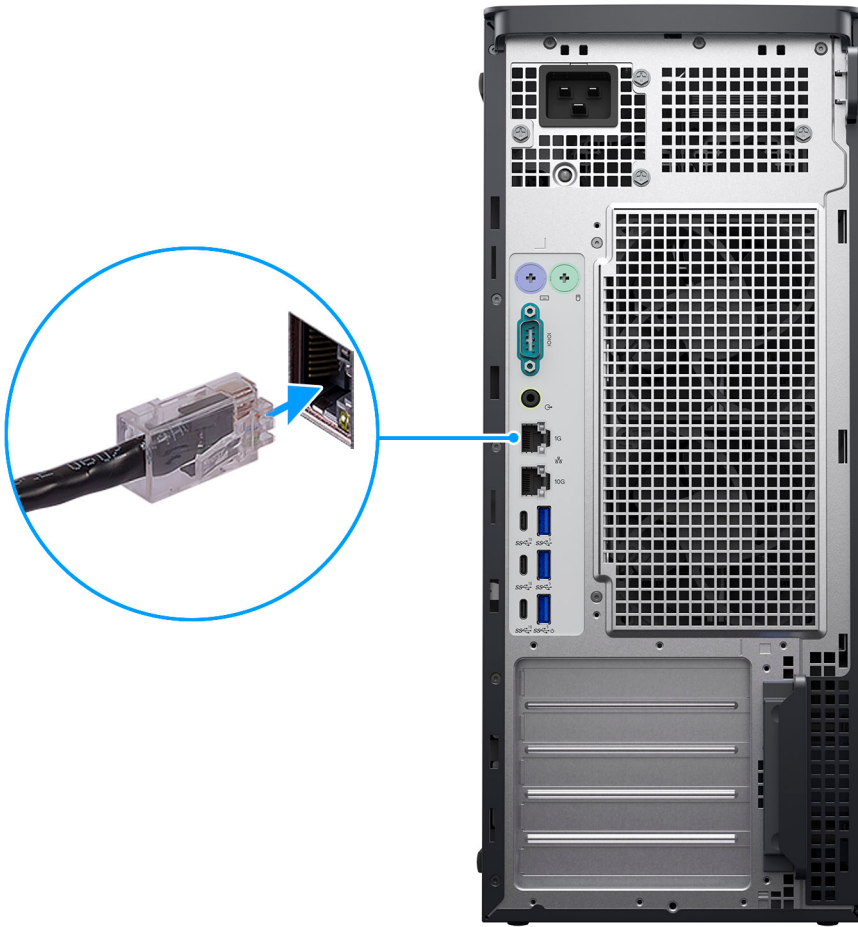
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Set up your computer

1. Connect the keyboard and mouse.



2. Connect to your network using a cable, or connect to a wireless network.



3. Connect the display.

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



4. Connect the power cable.

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



5. Press the power button.



6. Finish operating system setup.

For Ubuntu:

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

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.

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

Table 1. Locate Dell apps

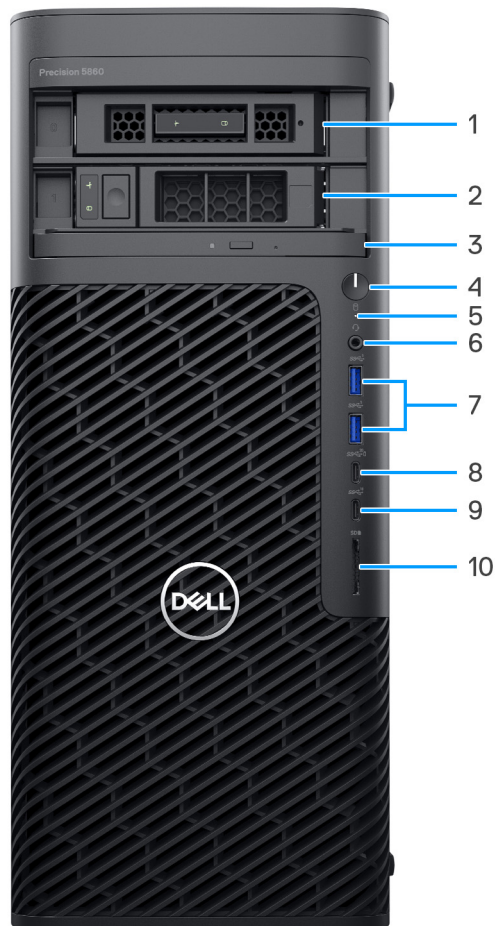
Resources	Description
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.

Table 1. Locate Dell apps (continued)

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 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.

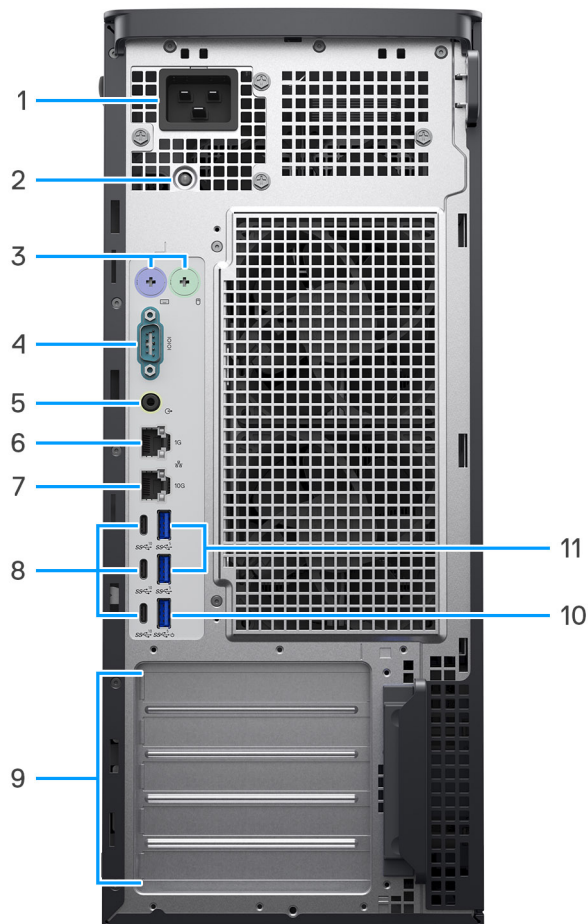
Views of Precision 5860 Tower

Display



1. Externally facing M.2 flexbay (optional)
2. Externally facing SATA flexbay (optional)
3. Slim optical-drive (optional)
4. Power button
5. Hard-drive activity light
6. Universal audio port
7. USB 3.2 Gen 1 port
8. USB 3.2 Gen 2 Type-C port with PowerShare
9. USB 3.2 Gen 2 Type-C port
10. SD-card reader

Back



1. Power port (C20 inlet port)
i **NOTE:** Computers with 750W PSU are shipped with C14 inlet port.
2. Power-supply diagnostics light
3. PS2 port (optional)
4. Serial port (optional)
5. Line-out audio port
6. RJ45 Ethernet port (1 Gbps)
7. RJ45 Ethernet port (10 Gbps)
8. Three USB 3.2 Gen 2 Type-C ports
9. Five PCIe Gen4 expansion slots
i **NOTE:** The top expansion slot supports Gen5 and the below 4 slots support Gen4.
10. USB 3.2 Gen 1 port with Smart Power On
11. Two USB 3.2 Gen 1 ports

Specifications of Precision 5860 Tower

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 5860 Tower.

Table 2. Dimensions and weight

Description	Values
Height	414 mm (16.29 in.) 417.90 mm (16.45 in.) with rubber foot protruding
Width	172.60 mm (6.79 in.) 176.50 mm (6.94 in.) with rubber foot protruding
Depth	429.60 mm (16.90 in.) 452.10 mm (17.79) with lock structure protruding
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	- Minimum: 14.40 kg (31.70 lbs.) - Maximum: 21.70 kg (47.80 lbs.)

Processor

The following table lists the details of the processors that are supported by your Precision 5860 Tower.

Table 3. Processor

Description	Option one	Option two	Option three	Option four	Option five	Option six	Option seven	Option eight
Processor type	Intel Xeon w3-2423	Intel Xeon w3-2425	Intel Xeon w3-2435	Intel Xeon w5-2445	Intel Xeon w5-2455X	Intel Xeon w5-2465X	Intel Xeon w7-2475X	Intel Xeon w7-2495X
Processor wattage	120 W	130 W	165 W	175 W	200 W	200 W	225 W	225 W
Processor core count	6	6	8	10	12	16	20	24
Processor thread count	12	12	16	20	24	32	40	48
Processor speed	2.10 GHz to 4.20 GHz	3.00 GHz to 4.40 GHz	3.10 GHz to 4.50 GHz	3.10 GHz to 4.60 GHz	3.20 GHz to 4.60 GHz	3.10 GHz to 4.70 GHz	2.6 GHz to 4.8 GHz	2.50 GHz to 4.80 GHz
Processor cache	15 MB	15 MB	22.50 MB	26.25 MB	30 MB	33.75 MB	37.50 MB	45 MB
Integrated graphics	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported	Not supported

Chipset

The following table lists the details of the chipset supported by your Precision 5860 Tower.

Table 4. Chipset

Description	Values
Chipset	Intel PCH W790
Processor	Intel Xeon w3/w5/w7
DRAM bus width	64-bit
Flash EPROM	32 MB + 16 MB
PCIe bus	Up to Gen5
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 Precision 5860 Tower supports the following operating systems:

- Windows 11 Pro Downgrade (Windows 10 Pro Image-factory installed)
- Windows 10 CMIT Government Edition, 64-bit (China only)
- Windows 11 Pro for Workstations
- Windows 10 Pro for Workstations Downgrade
- Ubuntu 22.04 LTS, 64-bit
- Red Hat Enterprise Linux 8.6

Memory

The following table lists the memory specifications of your Precision 5860 Tower.

Table 5. Memory specifications

Description	Values
Memory slots	Eight DIMM slots
Memory type	DDR5 Quad-channel
Memory speed	• 4800 MHz for Single-dimm-per-channel • 4400 MHz for Dual-dimm-per-channel
Maximum memory configuration	2 TB
Minimum memory configuration	16 GB

Table 5. Memory specifications (continued)

Description	Values
Memory size per slot	16 GB, 32 GB, 64 GB
Memory configurations supported	• 16 GB, 1 x 16 GB, DDR5 SPR, 1 DPC, 4800 MHz • 32 GB, 2 x 16 GB, DDR5 SPR, 1 DPC, 4800 MHz • 64 GB, 4 x 16 GB, DDR5 SPR, 1 DPC, 4800 MHz • 96 GB, 6 x 16 GB, DDR5 SPR, 2 DPC, 4400 MHz • 128 GB, 8 x 16 GB, DDR5 SPR, 2 DPC, 4400 MHz • 32 GB, 1 x 32 GB, DDR5 SPR, 1 DPC, 4800 MHz • 64 GB, 2 x 32 GB, DDR5 SPR, 1 DPC, 4800 MHz • 128 GB, 4 x 32 GB, DDR5 SPR, 1 DPC, 4800 MHz • 192 GB, 6 x 32 GB, DDR5 SPR, 2 DPC, 4400 MHz • 256 GB, 8 x 32 GB, DDR5 SPR, 2 DPC, 4400 MHz • 64 GB, 1 x 64 GB, DDR5 SPR, 1 DPC, 4800 MHz • 128 GB, 2 x 64 GB, DDR5 SPR, 1 DPC, 4800 MHz • 256 GB, 4 x 64 GB, DDR5 SPR, 1 DPC, 4800 MHz • 384 GB, 6 x 64 GB, DDR5 SPR, 2 DPC, 4400 MHz • 512 GB, 8 x 64 GB, DDR5 SPR, 2 DPC, 4400 MHz

Memory matrix

The following table lists the memory configurations supported on your Precision 5860 Tower.

Table 6. Memory matrix

Description	Options							
	CH_F		CH_E		CH_A		CH_B	
Configurations	DIMM 4	DIMM 8	DIMM 2	DIMM 6	DIMM 5	DIMM 1	DIMM 7	DIMM 3
16 GB DDR5	-	-	-	-	-	16	-	-
32 GB DDR5	-	-	16	-	-	16	-	-
32 GB DDR5	-	-	-	-	-	32	-	-
64 GB DDR5	16	-	16	-	-	16	-	16
64 GB DDR5	-	-	32	-	-	32	-	-
64 GB DDR5	-	-	-	-	-	64	-	-
96 GB DDR5	16	-	16	16	16	16	-	16
128 GB DDR5	-	-	64	-	-	64	-	-
128 GB DDR5	16	16	16	16	16	16	16	16
128 GB DDR5	32	-	32	-	-	32	-	32
192 GB DDR5	32	-	32	32	32	32	-	32
256 GB DDR5	32	32	32	32	32	32	32	32

Table 6. Memory matrix (continued)

Description	Options							
256 GB DDR5	64	-	64	-	-	64	-	64
384 GB DDR5	64	-	64	64	64	64	-	64
512 GB DDR5	64	64	64	64	64	64	64	64

External ports

The following table lists the external ports of your Precision 5860 Tower.

Table 7. External ports

Description	Values
Network port	- One RJ45 Ethernet port, 1 GbE (rear) - One RJ45 Ethernet port, 10 GbE (rear)
USB ports	- Two USB 3.2 Gen 1 ports (front) - One USB 3.2 Gen 2 Type-C port with PowerShare (front) - One USB 3.2 Gen 2 Type-C port (front) - Three USB 3.2 Gen 2 Type-C ports (rear) - Two USB 3.2 Gen 1 ports (rear) - One USB 3.2 Gen 1 port with Smart Power On (rear)
Audio port	- One Universal audio port (front) - One line-out audio port (rear)
Video port	Via Discrete GPU
Media-card reader	One SD-card slot (front)
Power-adaptor port	One power port
Security-cable slot	- One Kensington security-cable slot - One Padlock ring

Internal slots

The following table lists the internal slots of your Precision 5860 Tower.

Table 8. Internal slots

Description	Values
SATA	- Two SATA 3.0 slots for 3.5-inch/2.5-inch hard drive - Two SATA 3.0 slots for externally facing storage flexbay - Slim optical drive
PCIe Expansion	- One full-height Gen5 PCIe x16 slot - One full-height Gen4 PCIe x16 slot - Two full-height Gen4 PCIe x8 slots (open-ended) - One full-height Gen4 PCIe x8 (x4 electrical through PCH) slot (open-ended)

Table 8. Internal slots (continued)

Description	Values
M.2	- Two M.2 2230/2280 slot for PCIe NVMe Gen4 solid-state drive - Two M.2 2230/2280 slot for externally facing PCIe NVMe Gen4 storage flexbays NOTE: To learn more about the features of different types of M.2 cards, see the knowledge base article 000144170 at www.dell.com/support.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Precision 5860 Tower.

Table 9. Ethernet specifications

Description	Values
Model number	- Intel Ethernet Network Adapter X710 GbE NIC Card - Intel Ethernet Controller i225 - Marvell AQC113
Transfer rate	10 Gbps 1 Gbps 10 Gbps

Wireless module

The following table lists the Wireless Local Area Network (WLAN) module supported on your Precision 5860 Tower.

Table 10. Wireless module specifications

Description	Values
Model number	Qualcomm WCN6856-DBS
Transfer rate	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.
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)
Encryption	64-bit and 128-bit WEP - AES-CCMP - TKIP
Bluetooth	5.3

Audio

The following table lists the audio specifications of your Precision 5860 Tower.

Table 11. Audio specifications

Description		Values
Audio controller		Realtek Audio Controller ALC3246-CG
Stereo conversion		24-bit DAC (Digital-to-Analog) and ADC (Analog-to-Digital)
Internal audio interface		USB
External audio interface		- One Universal audio port (front) - One line-out audio port (rear)
Number of speakers		One (internal)
Internal-speaker amplifier		Not supported
External volume controls		Not supported
Speaker output:		
	Average speaker output	2 W
	Peak speaker output	2.5 W
Subwoofer output		Not supported
Microphone		Via Universal audio port

Storage

This section lists the storage options on your Precision 5860 Tower.

Your Precision 5860 Tower supports one or more of the following storage drives:

- Two 2.5-inch hard drives (internal)
- Two 2.5-inch hard drive (via externally facing storage flexbays)
- Two 3.5-inch hard drives, internal
- Two 3.5-inch hard drive (via externally facing storage flexbays)
- Two M.2 solid-state drives, internal
- Two M.2 solid-state drive (via externally facing storage flexbays)

NOTE: The system supports a maximum of two externally facing storage flexbay slots.

Table 12. Storage specifications

	Interface type	Capacity
2.5-inch, 7200 RPM, hard-disk drive	SATA 3.0	500 GB
2.5-inch, SATA Mixed use Solid-state drive	SATA 3.0	1.92 TB
3.5-inch, 7200 RPM, hard-disk drive	SATA 3.0	1 TB
3.5-inch, 7200 RPM, Enterprise hard-disk drive	SATA 3.0	2 TB
3.5-inch, 7200 RPM, Enterprise hard-disk drive	SATA 3.0	4 TB

Table 12. Storage specifications (continued)

	Interface type	Capacity
3.5-inch, 7200 RPM, Enterprise hard-disk drive	SATA 3.0	8 TB
3.5-inch, 7200 RPM, Enterprise hard-disk drive	SATA 3.0	12 TB
2.5-inch, 15k RPM, hard-disk drive	SAS	600 GB
2.5-inch, 10K RPM, hard-disk drive	SAS	1.2 TB
2.5-inch, 10K RPM, Enterprise hard-disk drive	SAS	2.4 TB
M.2 2280, SSD, Class 40	PCIe NVMe Gen4 x4	2 TB
M.2 2280, SSD, Class 40	PCIe NVMe Gen4 x4	4 TB
M.2 2280, SSD, Self-Encrypting, Opal 2.0, FIPS	PCIe NVMe Gen4 x4	512 GB
M.2 2280, SSD, Self-Encrypting, Opal 2.0, FIPS	PCIe NVMe Gen4 x4	1 TB

Media-card reader

The following table lists the media cards supported by your Precision 5860 Tower.

Table 13. Media-card reader specifications

Description	Values
Media-card type	4.0 slot
Media-cards supported	- Secure Digital (mSD) - Secure Digital High Capacity (mSDHC) - Secure Digital Extended Capacity (mSDXC)
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 5860 Tower.

Table 14. Power ratings

Description	Option one	Option two
Type	1350 W Platinum internal power supply	750 W Platinum internal power supply
Input voltage	90 VAC-264 VAC	90 VAC-264 VAC
Input frequency	47 Hz-63 Hz	47 Hz-63 Hz
Input current (maximum)	16 A	10 A
Output current (continuous)	Operating: 12 VA / 42 A	Operating: 12 VA / 36 A

Table 14. Power ratings (continued)

Description		Option one	Option two
		12 VB / 36 A 12 VC / 72 A Standby mode: 12 VA / 1.5 A 12 VB / 5 A	12 VB / 27 A 12 VC / 36 A Standby mode: 12 VA / 1.5 A 12 VB / 5 A
Rated output voltage		+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)
	Storage	-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 5860 Tower.

Table 15. Power supply connector

Description	Values
750 W (Platinum)	- Two 4-pin connectors for processor - One 10-pin connector for system board - Two 6-pin (6p + 2p) auxiliary connectors for expansion cards
1350 W (Platinum)	- Three 4-pin connectors for processor - One 12-pin connector for system board - Four 8-pin (6 + 2) auxiliary connectors for expansion cards

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 5860 Tower.

Table 16. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA RTX A6000	48 GB	GDDR6
NVIDIA RTX A5500	24 GB	GDDR6
NVIDIA RTX A4500	20 GB	GDDR6
NVIDIA RTX A4000	16 GB	GDDR6
NVIDIA RTX A2000	12 GB	GDDR6
NVIDIA T1000	8 GB	GDDR6
NVIDIA T400	4 GB	GDDR6

Table 16. GPU—Discrete (continued)

Controller	Memory size	Memory type
NVIDIA Quadro GV100	32 GB	HBM2
AMD Radeon RX 6900 XT	16 GB	GDDR6
AMD Radeon Pro W6800	32 GB	GDDR6

Video port resolution

The following table lists the video port resolution for your Precision 5860 Tower.

Table 17. Video port resolution

Graphics card	Video ports	Maximum supported resolution
NVIDIA RTX A6000	4 DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA RTX A5500	4 DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA RTX A4500	4 DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA RTX A4000	4 DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA RTX A2000	4 mini-DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA T1000	4 mini-DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA T400	3 mini-DP 1.2 Certified, 1.3/1.4 Read	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
NVIDIA Quadro GV100	4 mini-DisplayPort 1.2 Certified, 1.3/1.4 Ready	DisplayPort -7680 x 4320 x 24 bpp @120 Hz
AMD Radeon RX 6900 XT	3 x DP 1.4 ports 1 x HDMI 2.1 port	- DisplayPort -7680 x 4320 @60 Hz - HDMI- 7680 x 4320 @60 Hz
AMD Radeon Pro W6800	6 mini-DP 1.4	DisplayPort -7680 x 4320 @60 Hz
AMD Radeon Pro W6600	3 DisplayPort 1.4	DisplayPort -7680 x 4320 @60 Hz

Hardware security

The following table lists the hardware security of your Precision 5860 Tower.

Table 18. Hardware security

Hardware security
Kensington security-cable slot
Padlock loop
Chassis lock support - Coin locker
Chassis intrusion switch
Lockable bezel for externally-facing storage flexbay (included with M.2 NVMe drives, optional with SATA drives)

Table 18. Hardware security (continued)

Hardware security
TPM 2.0 Discrete Hardware

Environmental

The following table lists the environmental specifications of your Precision 5860 Tower.

Table 19. Environmental

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free	No
Vertical orientation packaging support	Yes
Multi-Pack packaging	No
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 5860 Tower.

Table 20. Regulatory compliance

Regulatory compliance
EPEAT registered configurations available
ENERGY STAR compliant configurations available
TCO 9.0 certified configurations available
US CEC MEPS compliant configurations available
WEEE
Japan Energy Law
EU RoHS
China RoHS

Operating and storage environment

This table lists the operating and storage specifications of your Precision 5860 Tower.

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

Table 21. Computer environment

Description	Operating	Storage
Temperature range	10°C – 35°C (50°F – 95°F)	-40°C-65°C (-40°F-149°F)

Table 21. Computer environment (continued)

Description	Operating	Storage
Relative humidity (maximum)	20% to 80% (non-condensing, Max dew point temperature = 26°C)	5% to 95% (non-condensing, Max dew point temperature = 33°C)
Vibration (maximum)*	0.52 GRMS random at 5 Hz to 350 Hz	2.00 GRMS random at 5 Hz to 350 Hz
Shock (maximum)	Bottom half-sine pulse with a change in velocity of 40G, 2.5ms	105G half-sine pulse with a change in velocity of 105G, 2.5ms
Altitude range	-15.2 m to 3048 m (-49 ft to 10,000 ft)	-15.2 m to 10,668 m (-49 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.

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 22. Self-help resources

Self-help resources	Resource location
Information about Dell products and services	www.dell.com
Tips	
Contact Support	In Windows search, type <code>Contact Support</code> , 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.