

# Precision 7875 Tower

## Technical Guidebook

## Notes, cautions, and warnings

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

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

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

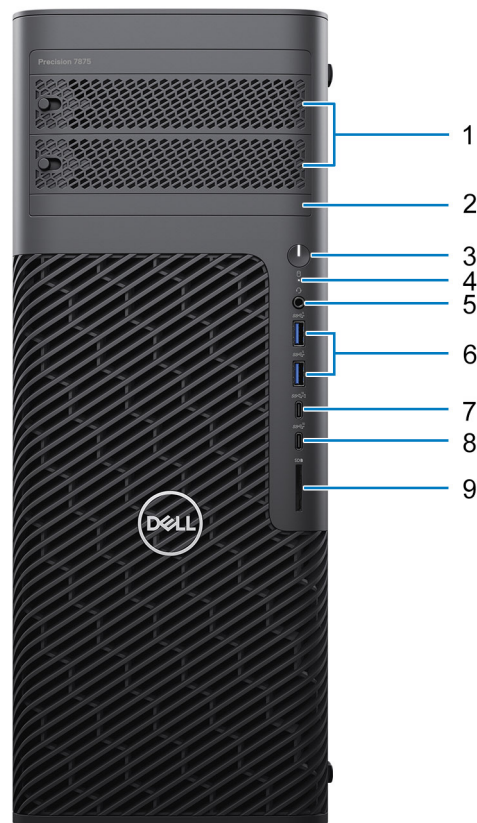
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# Views of Precision 7875 Tower

## Front



**Figure 1. Image: Front view**

1. Externally facing flex bays - SATA/M.2 (optional)
2. Slim optical-drive (optional)
3. Power button
4. Hard-drive activity light
5. Headset (headphone and microphone combo) port
6. Two USB 3.2 Gen 1 ports
7. USB 3.2 Gen 2 Type-C port with PowerShare
8. USB 3.2 Gen 2 Type-C port
9. SD-card slot

# Back

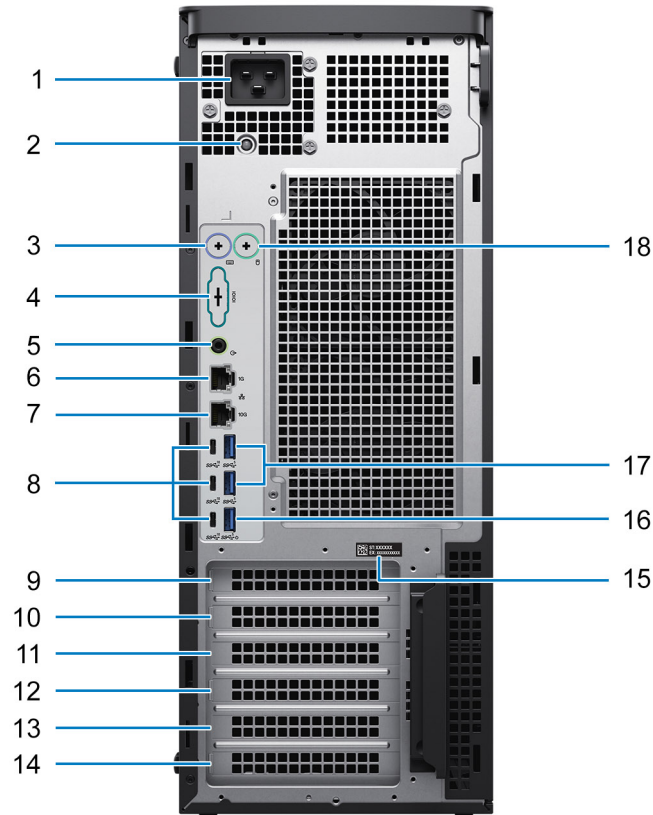


Figure 2. Image: Back view

1. Power port

**i** **NOTE:** Based on system configuration, the port can be either:  
C20 inlet (for 1350 W PSU) or C14 inlet (for 1000 W PSU).

2. Power-supply diagnostics light

3. PS2 port (optional) - keyboard

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. Expansion slot 1 (full-height Gen5 PCIe x8 slot), open-ended

10. Expansion slot 2 (full-height Gen5 PCIe x16 slot)

11. Expansion slot 3 (full-height Gen4 PCIe x8 slot - x4 electrical), open-ended

12. Expansion slot 4 (full-height Gen4 PCIe x8 slot), open-ended

13. Expansion slot 5 (full-height Gen4 PCIe x16 slot)

14. Expansion slot 6 (full-height Gen4 PCIe x8 slot), open-ended

15. Service tag location

16. USB 3.2 Gen 1 port with Smart Power On

17. Two USB 3.2 Gen 1 ports


18. PS2 port (optional) - mouse

# Specifications of Precision 7875 Tower

## Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 7875 Tower.

**Table 1. Dimensions and weight**

Description	Values
Height	<ul style="list-style-type: none"> <li>17.42 in. (442.70 mm)</li> <li>17.58 in. (446.60 mm) with rubber foot protruding</li> </ul>
Width	<ul style="list-style-type: none"> <li>6.79 in. (172.60 mm)</li> <li>6.94 in. (176.50 mm) with rubber foot protruding</li> </ul>
Depth	<ul style="list-style-type: none"> <li>18.30 in. (465.00 mm)</li> <li>19.19 in. (487.50 mm) with lock structure protruding</li> </ul>
Weight  <b>NOTE:</b> The weight of your computer depends on the configuration ordered and manufacturing variability.	<ul style="list-style-type: none"> <li>Minimum - 18.34 kg (40.39 lb)</li> <li>Maximum - 25.57 kg (56.34 lb)</li> </ul>

## Processor

The following table lists the details of the processors supported by your Precision 7875 Tower.

**Table 2. Processor**

Description	Option one	Option two	Option three	Option four	Option five	Option six
Processor type	AMD Ryzen Threadripper Pro 7995WX	AMD Ryzen Threadripper Pro 7985WX	AMD Ryzen Threadripper Pro 7975WX	AMD Ryzen Threadripper Pro 7965WX	AMD Ryzen Threadripper Pro 7955WX	AMD Ryzen Threadripper Pro 7945WX
Processor wattage	350 W	350 W	350 W	350 W	350 W	350 W
Processor core count	96 cores	64 cores	32 cores	24 cores	16 cores	12 cores
Processor thread count	192	128	64	48	32	24
Processor speed	2.50 GHz to 5.10 GHz	3.20 GHz to 5.10 GHz	4.0 GHz to 5.30 GHz	4.20 GHz to 5.30 GHz	4.50 GHz to 5.30 GHz	4.70 GHz to 5.30 GHz
Processor cache	491 MB total cache	327 MB total cache	163 MB total cache	155 MB total cache	81 MB total cache	77 MB total cache



# Chipset

The following table lists the details of the chipset supported by your Precision 7875 Tower.

**Table 3. Chipset**

Description	Values
Chipset	AMD PROM21
Processor	PRO 695
DRAM bus width	64-bit
Flash EPROM	32 MB + 4 MB
PCIe bus	Up to Gen 5.0
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 7875 Tower supports the following operating systems:

- Windows 10 22H2
- Windows 11 SV1
- Windows 11 SV2
- Ubuntu 22.04 LTS, 64-bit
- Red Hat Enterprise Linux 9.3

# Memory

The following table lists the memory specifications of your Precision 7875 Tower.

**Table 4. Memory specifications**

Description	Values
Memory slots	Eight DIMM slots
Memory type	DDR5 RDIMM
Memory speed	<ul style="list-style-type: none"><li>• 4800 MT/s, ECC</li><li>• 5200 MT/s, ECC (Supported with 5600 module)</li></ul>
Maximum memory configuration	2 TB
Minimum memory configuration	16 GB

**Table 4. Memory specifications (continued)**

Description	Values
Memory size per slot	16 GB, 32 GB, 64 GB, 128 GB, 256 GB
Memory configurations supported	<ul style="list-style-type: none"> <li>• 16 GB: 1 x 16 GB, DDR4, 4800 MT/s, ECC</li> <li>• 32 GB: 2 x 16 GB, DDR5, 4800 MT/s, ECC</li> <li>• 64 GB: 4 x 16 GB, DDR5, 4800 MT/s, ECC</li> <li>• 64 GB: 2 x 32 GB, DDR5, 4800 MT/s, ECC</li> <li>• 128 GB: 8 x 16 GB, DDR5, 4800 MT/s, ECC</li> <li>• 128 GB: 4 x 32 GB, DDR5, 4800 MT/s, ECC</li> <li>• 256 GB: 8 x 32 GB, DDR5, 4800 MT/s, ECC</li> <li>• 256 GB: 4 x 64 GB, DDR5, 4800 MT/s, ECC</li> <li>• 512 GB: 8 x 64 GB, DDR5, 4800 MT/s, ECC</li> <li>• 512 GB: 4 x 128 GB, DDR5, 4800 MT/s, ECC</li> <li>• 768 GB: 6 x 128 GB, DDR5, 4800 MT/s, ECC</li> <li>• 1024 GB: 8 x 128 GB, DDR5, 4800 MT/s, ECC</li> <li>• 1024 GB: 4 x 256 GB, DDR5, 4800 MT/s, ECC</li> <li>• 1536 GB: 6 x 256 GB, DDR5, 4800 MT/s, ECC</li> <li>• 2048 GB: 8 x 256 GB, DDR5, 4800 MT/s, ECC</li> </ul>

## Memory matrix

The following table lists the memory configurations supported on your Precision 7875 Tower.

**Table 5. Memory matrix**

Config uration	Slot							
	DIMM1	DIMM2	DIMM3	DIMM4	DIMM5	DIMM6	DIMM7	DIMM8
16 GB DDR4	16 GB							
32 GB DDR4	16 GB	16 GB						
64 GB DDR4	16 GB	16 GB	16 GB	16 GB				
64 GB DDR4	32 GB	32 GB						
128 GB DDR4	16 GB	16 GB	16 GB	16 GB	16 GB	16 GB	16 GB	16 GB
128 GB DDR4	32 GB	32 GB	32 GB	32 GB				
256 GB DDR4	32 GB	32 GB	32 GB	32 GB	32 GB	32 GB	32 GB	32 GB
256 GB DDR4	64 GB	64 GB	64 GB	64 GB				
512 GB DDR4	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB	64 GB
512 GB DDR4	128 GB	128 GB	128 GB	128 GB				
768 GB DDR4	128 GB	128 GB	128 GB	128 GB	128 GB	128 GB		

**Table 5. Memory matrix (continued)**

Config uration	Slot							
1024 GB DDR4	128 GB	128 GB	128 GB	128 GB	128 GB	128 GB	128 GB	128 GB
1024 GB DDR4	256 GB	256 GB	256 GB	256 GB				
1536 GB DDR4	256 GB	256 GB	256 GB	256 GB	256 GB	256 GB		
2048 GB DDR4	256 GB	256 GB	256 GB	256 GB	256 GB	256 GB	256 GB	256 GB

## External ports

The following table lists the external ports of your Precision 7875 Tower.

**Table 6. External ports**

Description	Values
Network port	<ul style="list-style-type: none"> <li>One RJ45 Ethernet port, 1 G (rear)</li> <li>One RJ45 Ethernet port, 10 G (rear)</li> </ul>
USB ports	<p>Front:</p> <ul style="list-style-type: none"> <li>Two USB 3.2 Gen 1 ports</li> <li>One USB 3.2 Gen 2 Type-C port with PowerShare</li> <li>One USB 3.2 Gen 2 Type-C port</li> </ul> <p>Rear:</p> <ul style="list-style-type: none"> <li>Three USB 3.2 Gen 2 Type-C ports</li> <li>Two USB 3.2 Gen 1 ports</li> <li>One USB 3.2 Gen 1 port with Smart Power On</li> </ul>
Audio port	<ul style="list-style-type: none"> <li>One headset (headphone and microphone combo) port (front)</li> <li>One line-out audio port (rear)</li> </ul>
Video port	Using Discrete GPU
Media-card reader	One SD-card 6.0 slot (front)
Power-adapter port	Not supported
Security-cable slot	N/A

## Internal slots

The following table lists the internal slots of your Precision 7875 Tower.

**Table 7. Internal slots**

Description	Values
Expansion slots	<ul style="list-style-type: none"> <li>One full-height Gen5 PCIe x16 slot</li> <li>One full-height Gen4 PCIe x16 slot</li> <li>Two full-height Gen4 PCIe x8 slots, open-ended</li> <li>One full-height Gen5 PCIe x8 slot, open-ended</li> <li>One full-height Gen4 PCIe x8 slot (x4 electrical), open-ended</li> </ul>
SATA/SAS	<ul style="list-style-type: none"> <li>Two SATA 3.0 slots for 3.5-inch/2.5-inch hard drives</li> <li>Two SATA 3.0 slots for externally facing storage flex bays</li> <li>One SATA 3.0 slot for optical drive</li> </ul>
M.2	<ul style="list-style-type: none"> <li>Two M.2 2230/2280 slots for PCIe NVMe Gen4 solid state drives</li> <li>Two M.2 2230/2280 slots for externally facing PCIe NVMe Gen4 storage flex bays</li> </ul> <p><b>NOTE:</b> To learn more about the features of different types of M.2 cards, search in the Knowledge Base Resource at <a href="http://www.dell.com/support">www.dell.com/support</a>.</p>

## Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Precision 7875 Tower.

**Table 8. Ethernet specifications**

Description	Values
Model number	<ul style="list-style-type: none"> <li>Realtek RTL8111-EPP</li> <li>Marvell AGC113-B1-C</li> </ul>
Transfer rate	<ul style="list-style-type: none"> <li>Realtek RTL8111-EPP, 1G</li> <li>Marvell AGC113-B1-C, 10G</li> </ul>


## Wireless module

The following table lists the Wireless Local Area Network (WLAN) module that is supported on your Precision 7875 Tower.

**Table 9. Wireless module specifications**

Description	Values
Model number	Qualcomm WCN6856-DBS
Transfer rate	3571 Mbps
Frequency bands supported	2.4 GHz/5 GHz/6 GHz <b>NOTE:</b> The 6 GHz frequency is supported on computers installed with Windows 11 operating system only.

**Table 9. Wireless module specifications (continued)**

Description	Values
Wireless standards	<ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g</li> <li>• Wi-Fi 4 (Wi-Fi 802.11n)</li> <li>• Wi-Fi 5 (Wi-Fi 802.11ac)</li> <li>• Wi-Fi 6E (Wi-Fi 802.11ax)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>• 64-bit and 128-bit WEP</li> <li>• AES-CCMP</li> <li>• TKIP</li> </ul>
Bluetooth wireless card	5.3 wireless card
	 <b>NOTE:</b> 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 7875 Tower.

**Table 10. Audio specifications**

Description	Values
Audio type	Realtek Audio Controller ALC3246
Audio controller	24-bit Digital-to-Analog (DAC) and Analog-to-Digital (ADC)
Internal audio interface	HDA
External audio interface	<ul style="list-style-type: none"> <li>• One Universal audio port (front)</li> <li>• One line-out audio port (rear)</li> </ul>

## Storage

This section lists the storage options on your Precision 7875 Tower.

Your Precision 7875 Tower supports one of the following storage configurations: Internal:

- Two 2.5-inch hard drives/two 3.5-inch hard drives
- Two M.2 solid state drives

Externally facing storage flexbays:

- Two 2.5-inch hard drives/two 3.5-inch hard drives
- Two M.2 solid state drives

**Table 11. Storage specifications**

Storage type	Interface type	Capacity
3.5-inch, 7200 RPM, HDD	SATA 3.0, up to 6 Gbps	Up to 12 TB
2.5-inch, 10000 RPM, SAS Enterprise Drive, HDD	<ul style="list-style-type: none"> <li>• SAS</li> <li>• 9660 16i, up to 24 Gbps</li> <li>• 9540 8i, up to 12 Gbps</li> </ul>	Up to 2.4 TB
2.5-inch, 15000 RPM, SAS Enterprise Drive, HDD	SAS	600 GB

**Table 11. Storage specifications (continued)**

<b>Storage type</b>	<b>Interface type</b>	<b>Capacity</b>
M.2 2280 solid state drive, Class 40	PCIe Gen4 x4 NVMe	Up to 4 TB
M.2 2280 self-encrypting drive, Class 40	PCIe Gen4 x4 NVMe	Up to 1 TB
M.2 2230 solid state drive, Class 35	PCIe Gen4 x4 NVMe	256 GB
M.2 2230 self-encrypting drive, Class 35	PCIe Gen4 x4 NVMe	256 GB
8x DVD-ROM, slimline	SATA 1, up to 1.5 Gbps	NA
8x DVD±RW, slimline	SATA 1, up to 1.5 Gbps	N/A
16x Half Height DVD ± RW	SATA 1, up to 1.5 Gbps	NA

# Storage Matrix








Storage configuration number	C1	C2	C3	C4	C5
Chassis type (L6/L5.5)	Standard 2x SATA 	Blank/open (empty) flex bay 			
Flex bay mechanical assembly (L10)	SAS/SATA + SAS/SATA (already installed) 	SATA + half-height optical drive 	M.2 + M.2 	M.2 + SATA 	M.2 + half-height optical drive 
Boot drive option	M.2 SSD	M.2 SSD	M.2 SSD	M.2 SSD	M.2 SSD
Storage controller option	AMD integrated MegaRAID 9540 MegaRAID 9660	AMD integrated	AMD integrated	AMD integrated	AMD integrated
Upper flex bay option	2.5-inch/3.5-inch SAS/SATA	2.5-inch/3.5-inch SATA	M.2 SSD boot	M.2 SSD boot	M.2 SSD boot
Lower flex bay option	2.5-inch/3.5-inch SAS/SATA	None (slot occupied by hard drive - optical drive)	M.2 SSD	2.5-inch/3.5-inch SATA	None (slot occupied by hard drive - optical drive)
First internal SATA option	2.5-inch/3.5-inch SAS/SATA	2.5-inch/3.5-inch SATA	2.5-inch/3.5-inch SATA	2.5-inch/3.5-inch SATA	2.5-inch/3.5-inch SATA
Second internal SATA option	2.5-inch/3.5-inch SAS/SATA	2.5-inch/3.5-inch SATA	2.5-inch/3.5-inch SATA	2.5-inch/3.5-inch SATA	2.5-inch/3.5-inch SATA
First internal M.2 option	M.2 SSD boot	M.2 SSD boot	M.2 SSD	M.2 SSD	M.2 SSD
Second internal M.2 option	M.2 SSD	M.2 SSD	M.2 SSD	M.2 SSD	M.2 SSD
Optical drive option	Slimline	Half-height - optical drive required	Slimline	Slimline	Half-height - optical drive required

Figure 3. Storage matrix configurations

## Redundant Array of Independent Disks (RAID)

For optimal performance when configuring drives as a RAID volume, Dell Technologies recommends drive models that are identical.

RAID 0 (Striped, Performance) volumes benefit from higher performance when drives are matched because the data is split across multiple drives: any IO operations with block sizes larger than the stripe size will split the I/O and become constrained by the slowest of the drives. For RAID 0 I/O operations where block sizes are smaller than the stripe size, whichever drive the I/O operation targets will determine the performance, which increases variability and results in inconsistent latencies. This variability is particularly pronounced for write operations and it can be problematic for applications that are latency sensitive. One such example of this is any application that performs thousands of random writes per second in very small block sizes.

RAID 1 (Mirrored, Data Protection) volumes benefit from higher performance when drives are matched because the data is mirrored across multiple drives: all I/O operations must be performed identically to both drives, thus variations in drive performance when the models are different, results in the I/O operations completing only as fast as the slowest drive. While this does not suffer the variable latency issue in small random I/O operations as with RAID 0 across heterogeneous drives, the impact is nonetheless large because the higher performing drive becomes limited in all I/O types. One of the worst examples of constrained performance here is when using unbuffered I/O. To ensure writes are fully committed to nonvolatile regions of the RAID volume, unbuffered I/O bypasses cache (for example by using the Force Unit Access bit in the NVMe protocol) and the I/O operation will not complete until all the drives in the RAID volume have completed the request to commit the data. This kind of I/O operation completely negates any advantage of a higher performing drive in the volume.

RAID 5 provides better performance by using data striping and protection through parity. The disadvantage of RAID 5 is that rebuilding a large RAID 5 volume requires a longer period of time. The following are the key features of RAID 5:

- Requires at least three drives.
- Data is available even if one of the drives present in the volume fails. The failed drive must be replaced, and the volume must be rebuilt for the data to be accessible.
- The total capacity is N-1, where N is the total capacity of the drives in the array. For example, if you use three 1 TB drives in a RAID 5 array, the total volume size is 2 TB.

RAID 10 is a stripe of mirrors that combines the features of RAID 0 and RAID 1. As the blocks are striped and mirrored, the performance and redundancy are higher. The disadvantage of RAID 10 is that it is more expensive than other RAID levels, with a higher number of drives required. The following are the key features of RAID 10:

- Requires a minimum of four drives. Only an even number of drives can be used, and an odd number of drives are not possible.
- The total volume capacity is half the sum of individual drive capacity. For example, when you use four drives of 1 TB, you get a RAID 10 volume of 2 TB.


Care must be taken to match not only the drive vendor, capacity, and class, but also the specific model. Drives from the same vendor, with the same capacity, and even within the same class, can have very different performance characteristics for certain types of I/O operations. Thus, matching by model ensures that the RAID volume is comprised of a homogeneous array of drives that will deliver all the benefits of a RAID volume without incurring the additional penalties when one or more drives in the volume are lower performing.

Precision 7875 Tower supports RAID with more than one hard drive configuration.

## Media-card reader

The following table lists the media cards supported by your Precision 7875 Tower.

**Table 12. Media-card reader specifications**

Description	Values
Media-card type	One SD-card 6.0 slot
Media-cards supported	<ul style="list-style-type: none"> <li>• Secure Digital (SD)</li> <li>• Secure Digital High Capacity (SDHC)</li> <li>• Secure Digital Extended Capacity (SDXC)</li> </ul>
<p> <b>NOTE:</b> The maximum capacity supported by the media-card reader varies depending on the standard of the media card installed in your computer.</p>	

## Power ratings

The following table lists the power rating specifications of Precision 7875 Tower.

**Table 13. Power ratings**

Description	Option one	Option two
Type	1350 W Platinum internal power supply (C20 inlet)	1000 W Platinum internal power supply (C14 inlet)



**Table 13. Power ratings (continued)**

Description	Option one	Option two
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	13.60 A
Output current (continuous)	Operating: <ul style="list-style-type: none"> <li>• 12 VA/42 A</li> <li>• 12 VB/36 A</li> <li>• 12 VC/72 A</li> </ul> Standby mode: <ul style="list-style-type: none"> <li>• 12 VA/1.5 A</li> <li>• 12 VB/5 A</li> </ul>	Operating: <ul style="list-style-type: none"> <li>• 12 VA/36 A</li> <li>• 12 VB/27 A</li> <li>• 12 VC/36 A</li> </ul> Standby mode: <ul style="list-style-type: none"> <li>• 12 VA/1.5 A</li> <li>• 12 VB/5 A</li> </ul>
Rated output voltage	<ul style="list-style-type: none"> <li>• +12 VA</li> <li>• +12 VB</li> <li>• +12 VC</li> </ul>	<ul style="list-style-type: none"> <li>• +12 VA</li> <li>• +12 VB</li> <li>• +12 VC</li> </ul>
Temperature range		
Operating	5°C (41°F) to 45°C (113°F)	5°C (41°F) to 45°C (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 7875 Tower.

**Table 14. Power supply connector**

Description	Values
1350 W (Platinum)	<ul style="list-style-type: none"> <li>• C20 inlet</li> <li>• Three 4-pin connectors for the processor</li> <li>• One 12-pin connector for the system board</li> <li>• Four 8-pin (6 + 2) auxiliary connectors for expansion cards</li> </ul>
1000 W (Platinum)	<ul style="list-style-type: none"> <li>• C14 inlet</li> <li>• Two 4-pin connectors for the processor</li> <li>• One 10-pin connector for the system board</li> <li>• Two 8-pin (6 + 2) auxiliary connectors for expansion cards</li> </ul>

## GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 7875 Tower.

**Table 15. GPU—Discrete**

Controller	Memory size	Memory type
NVIDIA RTX 6000 Ada Generation	48 GB	GDDR6 with ECC
NVIDIA RTX A6000	48 GB	GDDR6

**Table 15. GPU—Discrete (continued)**

Controller	Memory size	Memory type
NVIDIA RTX A4000	16 GB	GDDR6
NVIDIA RTX A2000	12 GB	GDDR6
NVIDIA T1000	8 GB	GDDR6
NVIDIA T400	4 GB	GDDR6
NVIDIA GeForce RTX 4090	24 GB	GDDR6X
AMD Radeon Pro W7600	8 GB	GDDR6
AMD Radeon Pro W7500	8 GB	GDDR6
AMD Radeon Pro W6400	4 GB	GDDR6
AMD Radeon Pro W6300	2 GB	GDDR6

## Video port resolution

The following table lists the video port resolution for your Precision 7875 Tower.

**Table 16. Video port resolution**

Graphics card	Video ports	Maximum supported resolution
NVIDIA RTX 6000 Ada Generation	Four DisplayPort ports	7680 x 4320 @ 24 bpp at 120 Hz <i>i</i> <b>NOTE:</b> Requires two DisplayPort 1.4a ports and DSC
NVIDIA RTX A6000	Four DisplayPort 1.2 ports	7680 x 4320 @ 24 bpp at 120 Hz <i>i</i> <b>NOTE:</b> Requires two DisplayPort 1.4a ports and DSC
NVIDIA RTX A4000	Four DisplayPort 1.2 ports	7680 x 4320 @ 24 bpp at 120 Hz <i>i</i> <b>NOTE:</b> Requires two DisplayPort 1.4a ports and DSC
NVIDIA RTX A2000	Four mini-DisplayPort 1.2 ports	7680 x 4320 @ 24 bpp at 120 Hz <i>i</i> <b>NOTE:</b> Requires two DisplayPort 1.4a ports and DSC
NVIDIA T1000	Four mini-DisplayPort 1.2 ports	7680 x 4320 @ 24 bpp at 120 Hz <i>i</i> <b>NOTE:</b> Requires two DisplayPort 1.4a ports and DSC
NVIDIA T400	Three mini-DisplayPort 1.2 ports	7680 x 4320 @ 24 bpp at 120 Hz <i>i</i> <b>NOTE:</b> Requires two DisplayPort 1.4a ports and DSC
NVIDIA GeForce RTX 4090	<ul style="list-style-type: none"> <li>• Three DisplayPort 1.4 ports</li> <li>• One HDMI 2.1 port</li> </ul>	7680 x 4320 @ 60 Hz <i>i</i> <b>NOTE:</b> Requires two DP links with no compression or single DP link with DSC compression.

**Table 16. Video port resolution (continued)**

Graphics card	Video ports	Maximum supported resolution
AMD Radeon Pro W7600	Two DisplayPort 1.4 ports	7680 x 4320 @ 60 Hz
AMD Radeon Pro W7500	Two DisplayPort 1.4 ports	7680 x 4320 @ 60 Hz
AMD Radeon Pro W6400	Two DisplayPort 1.4 ports	7680 x 4320 @ 60 Hz
AMD Radeon Pro W6300	Two DisplayPort 1.4 ports	7680 x 4320 @ 60 Hz

## Hardware security

The following table lists the hardware security of your Precision 7875 Tower.

**Table 17. Hardware security**

Hardware security
TPM 2.0 Discrete Hardware
TPM localization
TPM OS dependency
Factory Test Image with third-party solutions. (McAfee/Symantec)

## Environmental

The following table lists the environmental specifications of your Precision 7875 Tower.

**Table 18. Environmental**

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	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 7875 Tower.

**Table 19. Regulatory compliance**

Regulatory compliance
EPEAT registered configurations are available
ENERGY STAR-compliant configurations available

**Table 19. Regulatory compliance (continued)**

Regulatory compliance
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 7875 Tower.

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

**Table 20. Computer environment**

Description	Operating	Storage
Temperature range	0°C to 35°C (32°F to 95°F)	-40°C to 65°C (-40°F to 149°F)
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 G†	105G half-sine pulse with a change in velocity of 105G, 2.5 ms G†
Altitude range	-15.2 m to 3048 m (-49.87 ft to 10000 ft)	-15.2 m to 10668 m (-49.87 ft to 35000 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.

# Engineering specifications

## Physical system dimensions

The following table provides the physical dimensions of your Precision 7875 Tower.

**NOTE:** System weight and shipping weight are based on a typical configuration and may vary based on your system configuration. A typical configuration includes integrated graphics, one hard drive, and one optical drive.

**Table 21. Physical system dimensions**

Feature	Values
Chassis volume	35.3 L
Chassis Weight	Maximum: 56.34 lb (25.57 kg) Minimum: 40.39 lb (18.34 kg)
<b>Chassis dimensions</b>	
Height	17.42 in. (442.70 mm) / 17.58 in. (446.60 mm) with rubber foot protruding
Width	6.79 in.(172.60 mm ) / 6.94 in.(176.50 mm) with rubber foot protruding
Depth	18.30 in. (465.00 mm) / 19.19 in. (487.50 mm) with lock structure protruding
Shipping Weight (includes packaging materials)	Maximum: 56.34 lb (25.57 kg) Minimum: 40.39 lb (18.34 kg)
<b>Packaging dimensions</b>	
Height	26.89 in. (683 mm)
Width	12.72 in. (323 mm)
Depth	23.43 in. (595 mm)

## Add-in card specifications

### Intel X710-T2L-t 10 GbE dual port PCIe network card

The following table lists the Intel X710-T2L-t 10 GbE dual port PCIe (Gen x8) specifications.

**Table 22. Intel X710-T2L-t 10 GbE dual port PCIe network card specifications**

Feature	Values
External connector type	RJ45
Data rate	1/10 GbE
LED indicators	<ul style="list-style-type: none"> <li>Off - No Link/Idle/No activity</li> <li>Flashing green - Activity</li> </ul>

**Table 22. Intel X710-T2L-t 10 GbE dual port PCIe network card specifications (continued)**

Feature	Values
LED color	<ul style="list-style-type: none"> <li>• Off - No link</li> <li>• Green - Link up at 10 GbE</li> <li>• Yellow - Link up at &lt; 10 GbE</li> </ul>
<b>Adapter Features</b>	
Bus Type/Bus Width	PCIe Gen 3 x8
Interrupt levels	MSI-X
Hardware certifications	UL/CSA, FCC A, EN-55024, EN- 55032, KN32, KN35, CISPR 22/32, CE, VCCI, BSMI, EU REACH, EU WEEE, EU RoHS, China RoHS
Controller	Intel X710-AT2
Bracket	Full-height only. No low-profile.
<b>Power Consumption</b>	
Link Speed / Traffic	Typical power
Idle	4.14 W
1 GbE	5.649 W
10 GbE	8.809 W
<b>Environmental</b>	
Operating temperature range	0°C to +55°C (32°F to +131°F)
Storage temperature range	-40°C to 70°C (-40°F to 158°F)
Storage humidity	Maximum 90% non-condensing relative humidity at 35°C
<b>Physical Dimensions</b>	
Dimensions	167 mm x 111 mm

 **NOTE:** Wake on LAN (WoL) on the Intel X710-T2L-t network card is not supported.

## MegaRAID 9660-16i

The following table lists the MegaRAID 9660-16i PCIe (Gen x8) specifications.

**Table 23. MegaRAID 9660-16i PCIe (Gen x8) specifications**

Feature	Values
Adapter type	MegaRAID
Port count	16 internal
Connectors	Two x8 SFF-8654
Host Interface	PCIe Gen 4 x8
Storage Interface	24 Gb/s SAS, 6 Gb/s SATA, Gen 4.0 PCIe (NVMe)
Storage controller	SAS4116 ROC
RAID levels	0, 1, 10, 5, 50, 6, 60
Max devices per controller	SAS/SATA: 240 NVMe: 32

**Table 23. MegaRAID 9660-16i PCIe (Gen x8) specifications (continued)**

Feature	Values
Cache size	N/A
Cache protection	N/A
<b>RAID features</b>	<ul style="list-style-type: none"> <li>● JBOD PD state for SDS environments</li> <li>● Online Capacity Expansion (OCE)</li> <li>● Auto resume after loss of system power during array rebuild or OCE</li> <li>● Single controller multipathing</li> <li>● Load balancing</li> <li>● Configurable stripe size up to 1 MB</li> <li>● Fast initialization for quick array setup</li> <li>● Check consistency for background data integrity</li> <li>● SSD support with SSD Guard technology</li> <li>● Patrol read for media scanning and repairing</li> <li>● 64 complex virtual drive support</li> <li>● 240 single PD RAID 0 support</li> <li>● DDF-compliant Configuration on Disk (COD)</li> <li>● S.M.A.R.T. support</li> <li>● Global and dedicated Hot Spare with Revertible Hot Spare support:               <ul style="list-style-type: none"> <li>○ Automatic rebuild</li> <li>○ Enclosure affinity</li> <li>○ Emergency SATA hot spare for SAS arrays</li> </ul> </li> <li>● Enclosure management:               <ul style="list-style-type: none"> <li>○ Universal Backplane Management (UBM) ready</li> <li>○ SES (inband)</li> <li>○ SGPIO (sideband)</li> <li>○ VPP</li> </ul> </li> <li>● DataBolt bandwidth optimizer technology support for compatible expander-based enclosures</li> <li>● Shield state drive diagnostic technology</li> <li>● MegaRAID SafeStore Software for SED Key Management</li> </ul>
<b>Management Utilities</b>	<ul style="list-style-type: none"> <li>● LSI Storage Authority (LSA)</li> <li>● StorCLI (command-line interface)</li> <li>● UEFI Human Interface Infrastructure (HII)</li> </ul>
<b>OS Support</b>	Microsoft Windows, VMware vSphere/ESXi, Red Hat Enterprise Linux, SuSE Linux, Ubuntu Linux, Citrix XenServer, CentOS, Linux, Debian Linux, Oracle Enterprise Linux, Fedora, FreeBSD.
<b>Physical Dimensions</b>	
Dimensions	155.52 mm (± 0.13 mm) x 68.77 mm (± 0.13 mm)
<b>Environmental</b>	
Operating temperature range	0°C to +55°C (32°F to +131°F), 5% to 90% non-condensing
Storage temperature range	-45°C to 105°C (-49°F to 221°F), 5% to 95% non-condensing
Regulatory certifications	USA (FCC 47 CFR part 15 Subpart B, class B); Canada (ICES -003, Class B); Taiwan (CNS 13438); Japan (VCCI V-3); Australia/New Zealand (AS/NZS CISPR 22); Korea (RRA no 2013-24 & 25); Europe (EN55022/EN55024); Safety: EN/IEC/ UL 60950; RoHS; WEEE.

**Table 23. MegaRAID 9660-16i PCIe (Gen x8) specifications (continued)**

Feature	Values
<b>Power Consumption</b>	
Typical power	20 W
Operating voltage	12V ±8%; 3.3V ±9%
MTBF (calculated)	>3,000,000 hours at 40°C

## MegaRAID 9540-8i

The following table lists the MegaRAID 9540-8i PCIe (Gen x8) specifications.

**Table 24. MegaRAID 9540-8i PCIe (Gen x8) specifications**

Feature	Values
Adapter type	MegaRAID
Port count	8 internal
Connectors	One x8 SFF-8654
Host Interface	PCIe Gen 4 x8
Storage Interface	12 Gb/s SAS, 6 Gb/s SATA, Gen 4.0 PCIe (NVMe)
Controller (ROC/IOC)	SAS3808
RAID levels	0, 00, 1, 10
Max devices per controller	SAS/SATA: 63 NVMe: 4
Cache size	N/A
Cache protection	N/A
<b>RAID features</b>	<ul style="list-style-type: none"> <li>● Online Capacity Expansion (OCE)</li> <li>● Auto resume after loss of system power during array rebuild or OCE</li> <li>● Single controller multipathing</li> <li>● Load balancing</li> <li>● Configurable stripe size up to 1 MB</li> <li>● Fast initialization for quick array setup</li> <li>● Check consistency for background data integrity</li> <li>● SSD support with SSD Guard technology</li> <li>● Patrol read for media scanning and repairing</li> <li>● 32 virtual drive support</li> <li>● DDF-compliant Configuration on Disk (COD)</li> <li>● S.M.A.R.T. support</li> <li>● Global and dedicated Hot Spare with Revertible Hot Spare support: <ul style="list-style-type: none"> <li>○ Automatic rebuild</li> <li>○ Enclosure affinity</li> <li>○ Emergency SATA hot spare for SAS arrays</li> </ul> </li> <li>● Enclosure management: <ul style="list-style-type: none"> <li>○ SES (inband)</li> <li>○ SGPIO (sideband)</li> <li>○ Universal Backplane Management (UBM) ready</li> </ul> </li> <li>● DataBolt bandwidth optimizer technology support for compatible expander-based enclosures</li> </ul>



**Table 24. MegaRAID 9540-8i PCIe (Gen x8) specifications (continued)**

Feature	Values
	<ul style="list-style-type: none"> <li>Shield state drive diagnostic technology</li> <li>MegaRAID SafeStore Software for SED Key Management</li> </ul>
<b>Management Utilities</b>	<ul style="list-style-type: none"> <li>LSI Storage Authority (LSA)</li> <li>StorCLI (command-line interface)</li> <li>UEFI Human Interface Infrastructure (HII)</li> </ul>
<b>OS Support</b>	Microsoft Windows, VMware vSphere/ESXi, Red Hat Enterprise Linux, SuSE Linux, Ubuntu Linux, Citrix XenServer, CentOS, Linux, Debian Linux, Oracle Enterprise Linux, Fedora, FreeBSD.
<b>Physical Dimensions</b>	
Dimensions	155.52 mm (±0.13 mm) x 68.77 mm (±0.13 mm)
<b>Environmental</b>	
Operating temperature range	0°C to +55°C (32°F to +131°F), 5% to 90% non-condensing
Storage temperature range	-45°C to 105°C (-49°F to 221°F), 5% to 95% non-condensing
Regulatory certifications	USA (FCC 47 CFR part 15 Subpart B, class B); Canada (ICES -003, Class B); Taiwan (CNS 13438); Japan (VCCI V-3); Australia/New Zealand (AS/NZS CISPR 22); Korea (RRA no 2013-24 & 25); Europe (EN55022/EN55024); Safety: EN/IEC/ UL 60950; RoHS; WEEE.
<b>Power Consumption</b>	
Typical power	6 W
Operating voltage	12V ±8%; 3.3V ±9%
MTBF (calculated)	>3,000,000 hours at 40°C

## Slot limitations

The following table lists the system board connector maximum add-in card allowable dimensions of your Precision 7875 Tower.

**Table 25. Slot limitations of add-in cards**

Feature	Values
<b>Gen5 PCIe x16 slot</b>	1
Voltage	3.30 V/12 V
Height	4.65 in. (118.15 mm)
Length	12.28 in. (312 mm)
Maximum wattage	75 W
<b>Gen4 PCIe x16 slot</b>	1
Voltage	3.30 V/12 V
Height	4.65 in. (118.15 mm)
Length	12.28 in. (312 mm)

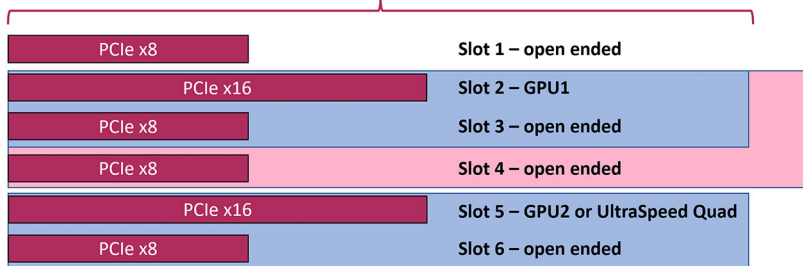
**Table 25. Slot limitations of add-in cards (continued)**

Feature	Values
Maximum wattage	75 W
<b>Full-height Gen4 PCIe x8 slots</b>	2
Voltage	3.30 V/12 V
Height	4.65 in. (118.15 mm)
Length	12.28 in. (312 mm)
Maximum wattage	75 W
<b>Full-height Gen5 PCIe x8 slots</b>	1
Voltage	3.30 V/12 V
Height	4.65 in. (118.15 mm)
Length	12.28 in. (312 mm)
Maximum wattage	75 W
<b>Full-height, half-length Gen4 PCIe x8 slots wired as x4 electrically</b>	1
Voltage	3.30 V/12 V
Height	4.65 in. (118.15 mm)
Length	12.28 in. (312 mm)
Maximum wattage	75 W

Maximum AIC Depth – 14.25" (362mm) without bracket and bracket retainer removed

Maximum AIC Depth – 12.5" (317mm) without bracket

Maximum AIC Depth – 10.5" (266mm) with bracket



Slots covered when 2x-width graphics card(s) are installed (maximum 2)

Slots covered when 2.5x-width graphics card is installed (maximum 1)

**Table 26. M.2 2230 slot for Wi-Fi card**

Feature	Values
<b>M.2 2230 slot for Wi-Fi card</b>	1
Voltage	3.3 V
Width	0.86 in. (22.00 mm)
Length	1.18 in. (30.00 mm)

**Table 26. M.2 2230 slot for Wi-Fi card (continued)**

Feature	Values
Thickness	0.14 in. (3.65 mm)
Maximum wattage	6.60 W

**Table 27. M.2 2280 slot for solid state drive**

Feature	Values
<b>M.2 2280 slot for solid state drive</b>	2
Voltage	3.3 V
Width	0.86 in. (22.00 mm)
Length	3.14 in. (80.00 mm)
Thickness	0.15 in. (3.80 mm)
Maximum Wattage	8.25 W

## PCIe add-in cards

### USB 3.1 Gen 2 PCIe card

The following table lists the USB 3.1 Gen 2 PCIe card specifications.

**Table 28. USB 3.1 Gen 2 PCIe card specifications**

Feature	Values
Bus	PCIe /USB
Controller	ASM3142
USB standard	USB 3.2 Gen2
IRQ and I/O	System assigned
<b>USB Communication</b>	
Host interface	USB 3.2 Gen2
Speed	10 G bit/sec
Number of ports	2
USB connector	Type-A
Protection	N/A
<b>Power</b>	
Power source	PCIe bus power
Output power capacity	5 V/1.5 A for each port
Over current protection	Yes
Power consumption	0.796 W @ idle
<b>Operating System</b>	
Supported operating system	<ul style="list-style-type: none"> <li>● Windows 10</li> <li>● Windows 11</li> </ul>
<b>Environment</b>	

**Table 28. USB 3.1 Gen 2 PCIe card specifications (continued)**

<b>Feature</b>	<b>Values</b>
Operating temperature	0°C to 60°C (32°F to 140°F)
Operating humidity	5% to 95% RH
Storage temperature	-20°C to 70°C (-4°F to 158°F)
<b>Standards and Certifications</b>	
EMC	CE/FCC/BSMI/VCCI
Green	Rohs

## UltraSpeed Duo M.2 PCIe card

The following table lists the UltraSpeed Duo M.2 PCIe card specifications.

**Table 29. UltraSpeed Duo M.2 PCIe card specifications**

<b>Feature</b>	<b>Values</b>
Interface	PCIe
Data rates	PCIe Gen 4
<b>Environment</b>	
Operating temperature	0°C to 60°C (32°F to 140°F)
Operating humidity	5% to 95% RH
Storage temperature	-20°C to 70°C (-4°F to 158°F)

## UltraSpeed Quad M.2 PCIe card

The following table lists the UltraSpeed Quad M.2 PCIe card specifications, also known as Zoom 4 card.

**Table 30. UltraSpeed Quad M.2 PCIe card specifications**

<b>Feature</b>	<b>Values</b>
Interface	PCIe
Data rates	PCIe Gen 4
<b>Environment</b>	
Operating temperature	0°C to 60°C (32°F to 140°F)
Operating humidity	5% to 95% RH
Storage temperature	-20°C to 70°C (-4°F to 158°F)

# Ethernet

## Realtek RTL8111-EPP Ethernet

The following table lists the Realtek RTL8111-EPP Ethernet specifications.

**Table 31. Realtek RTL8111-EPP Ethernet specifications**

Feature	Values
External connector type	RJ45
Data rate	1000 Mbps
LED indicators	<ul style="list-style-type: none"><li>• Link - Solid</li><li>• Activity - Blinking</li></ul>
LED color	<ul style="list-style-type: none"><li>• Yellow - 1 Gbps</li><li>• LED off - 100 Mbps or 10 Mbps</li></ul>
<b>Adapter Features</b>	
Bus Type/Bus Width	PCI Express 3.0
Interrupt levels	INTA, MSI, MSI-X
Hardware certifications	FCC B, UL, CE, VCCI, BSMI, CTICK, KCC, EEE
Controller	Realtek RTL8111-EPP
Bracket	
<b>Power Consumption</b>	
Link Speed / Traffic	Typical power
10 Mbps	0.5 W
100 Mbps	0.6 W
1 Gbe	1 W
<b>Environmental</b>	
Operating temperature range	0°C–55°C (32°F–131°F)
Storage temperature range	-40°C–70°C (-40°F–158°F)
Storage humidity	Maximum 90% non-condensing relative humidity at 35°C
<b>Physical Dimensions</b>	
Dimensions	

## Intel Ethernet 10G 2P X710-T2L-t

The following table lists the Intel Ethernet 10G 2P X710-T2L-t specifications.

**Table 32. Intel Ethernet 10G 2P X710-T2L-t specifications**

Feature	Values
External connector type	RJ45
Data rate	10 Gbps
LED indicators	<ul style="list-style-type: none"><li>• Link - Solid</li><li>• Activity - Blinking</li></ul>

**Table 32. Intel Ethernet 10G 2P X710-T2L-t specifications (continued)**

<b>Feature</b>	<b>Values</b>
LED color	<ul style="list-style-type: none"> <li>• Green - 10 Gbps</li> <li>• Yellow - Link at any of the slower speeds</li> <li>• LED off - No link</li> </ul>
<b>Adapter Features</b>	
Bus Type/Bus Width	PCI Express Gen 3 x8
Interrupt levels	INTA, MSI, MSI-X
Hardware certifications	<ul style="list-style-type: none"> <li>• FCC, 47 CFR Part 15, Class A digital device (USA)</li> <li>• ICES-003, Class A (Canada)</li> <li>• EN 55032: 2013 Class A Radiated and Conducted Emissions requirements for European Union</li> <li>• EN 55024: 2010 Immunity requirements for European Union (EU)</li> <li>• KN32 Radiated and Conducted Emissions/KN35 Immunity</li> <li>• AS/NZS CISPR 22:2009 + A1:2010 Class A and CISPR 32:2012 for Radiated and Conducted Emissions requirements</li> <li>• Passes CE specification and receives the CE Mark</li> <li>• VCCI:2014-04 Class A Radiated and Conducted Emissions requirements</li> <li>• BSMI CNS13438: 2006 (complete) Class A Radiated and Conducted Emissions requirements</li> <li>• Complies with European REACH directive</li> <li>• Complies with European WEEE directive</li> <li>• Complies with European RoHS directive</li> <li>• Complies with China RoHS directive</li> </ul>
Controller	Intel Ethernet Controller X710-AT2
Bracket	Standard-height/Low-profile
Wake-on-Lan	Not supported
<b>Power Consumption</b>	
100 Mbps	4.94 W
1 Gbps	5.65 W
10 Gbps	8.81 W
<b>Environmental</b>	
Operating temperature range	0°C to 55°C (32°F to 131°F)
Storage temperature range	-40°C to 70°C (-40°F to 158°F)
<b>Physical Dimensions</b>	
Dimensions	<ul style="list-style-type: none"> <li>• 120.01 mm x 160 mm (Standard-height)</li> <li>• 79.19 mm x 160 mm (Low-profile)</li> </ul>

## Marvell AQC113

The following table lists the Marvell AQC113 Ethernet specifications.

**Table 33. Marvell AQC113 Ethernet specifications**

<b>Feature</b>	<b>Values</b>
External connector type	RJ45

**Table 33. Marvell AQC113 Ethernet specifications (continued)**

Feature	Values
Data rate (Maximum)	10 Gbps
LED indicators	<ul style="list-style-type: none"> <li>• Link - Solid</li> <li>• Activity - Blinking</li> </ul>
LED color	<ul style="list-style-type: none"> <li>• Yellow - 10 Gbps</li> <li>• LED off - 100 Mbps or 10 Mbps</li> </ul>
<b>Adapter Features</b>	
Bus Type/Bus Width	PCI Express Gen 2 x4
Interrupt levels	INTA, MSI, MSI-X
Hardware certifications	FCC B, UL, CE, VCCI, BSMI, CTICK, KCC, EEE
Controller	Marvell AQC113
<b>Power Consumption</b>	
2.5 Gbps	1.1 W
5 Gbps	1.8 W
10 Gbps	3 W
<b>Environmental</b>	
Operating temperature range	0°C–55°C (32°F–131°F)
Storage temperature range	-40°C–70°C (-40°F–158°F)
Moisture Sensitivity Level	3
<b>Physical Dimensions</b>	
Dimensions	12 mm x 14 mm

## Wireless module

### Qualcomm WCN6856, 2x2, Wi-Fi 6E DBS, Bluetooth 5.3

The following table lists the Qualcomm WCN6856 specifications.

**Table 34. Qualcomm WCN6856 specifications**

Description	Values
Host interface	<ul style="list-style-type: none"> <li>• PCIe for Wi-Fi</li> <li>• USB for Bluetooth</li> </ul>
Network standard	IEEE 802.11a/b/g/n/ac/ax, 160 MHz channel use, MU-MIMO
Wi-Fi Alliance certifications	<ul style="list-style-type: none"> <li>• 802.11 a/b/g/n/ac R2/ax R2</li> <li>• WMM</li> <li>• WMM-PS</li> <li>• WPA3</li> <li>• WPS2</li> <li>• PMF</li> <li>• WFD</li> <li>• Miracast</li> <li>• Passpoint R2</li> <li>• Voice Personal</li> </ul>

**Table 34. Qualcomm WCN6856 specifications (continued)**

Description	Values
Operating frequency bands	<ul style="list-style-type: none"> <li>● 2.4 GHz</li> <li>● 5 GHz</li> <li>● 6 GHz</li> </ul>
Data rate	<ul style="list-style-type: none"> <li>● 2.4 GHz 40M: Up to 691 Mbps</li> <li>● 5 GHz 160M: Up to 2.88 Gbps</li> <li>● 6 GHz 160M: Up to 2.88 Gbps</li> <li>● DBS mode</li> <li>● 2.4 GHz 40M + 5/6 GHz 160M: Up to 3.57 Gbps</li> </ul>
Power consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity.
Authentication	<ul style="list-style-type: none"> <li>● WPA and WPA2 Personal and Enterprise</li> <li>● WPA3 Personal and Enterprise</li> </ul>
Authentication protocols	<ul style="list-style-type: none"> <li>● 802.1X EAP-TLS</li> <li>● EAP-TTLS/MSCHAPv2</li> <li>● PEAPv0 -MSCHAPv2 (EAP-SIM, EAP-AKA, EAP-AKA)</li> </ul>
Encryption	<ul style="list-style-type: none"> <li>● 64-bit and 128-bit WEP</li> <li>● TKIP</li> <li>● 128-bit AES-CCMP</li> <li>● 256-bit AES-GCMP</li> </ul>
Product safety	<ul style="list-style-type: none"> <li>● UL</li> <li>● C-UL</li> <li>● CB (IEC60950-1)</li> </ul>
Government compliance	<ul style="list-style-type: none"> <li>● FIPS 140-2</li> <li>● FISMA</li> </ul>
Antenna diversity	Supported
Radio On/Off	Supported
Roaming	Support seamless roaming between access points.
Wake on wireless	Supported
Wireless display	Native Miracast support by Windows
Wireless PAN standard	<ul style="list-style-type: none"> <li>● Dual-Mode Bluetooth 5.3</li> <li>● BLE</li> </ul>
Bluetooth data rates	Up to 3 Mbps
Bluetooth operating frequency bands	2.4 GHz
Bluetooth profiles supported	Support for Microsoft Inbox Bluetooth profiles in Windows
Bluetooth data encryption	128-bit encryption
Bluetooth output power	Power class 1
Operating temperature	0°C to 50°C (Full performance at shield temperatures up to 80°C)
Storage temperature	-40°C to 70°C
Humidity	Up to 90% RH non-condensing (at temperatures of 25°C to 35°C)



# GPU—Discrete

## NVIDIA RTX 6000 Ada Generation, 48 GB GDDR6 with ECC

The following table lists the NVIDIA RTX 6000 Ada Generation specifications.

**Table 35. NVIDIA RTX 6000 Ada Generation specifications**

Feature	Values
GPU frequency	915 MHz
DirectX 12	12
Shader model	5.17
Open CL	3
Open GL	4.6
GPU memory interface	384 bits
PCIe bus	PCIe 4.0 x16
Display support	Four DisplayPort 1.4a
Graphics memory configuration	48 GB, GDDR6
Graphics memory clock speed	10,000 MHz
Active fan sink	4-pin embedded fan controller
Slot number	Dual Slots
PCB form factor	Full Height, Full length
PCB layer	N/A
PCB solder mask	N/A
Bracket form factor	Full Height
Maximum resolution	7680 x 4320 x 24 bpp at 120 Hz (Requires two DPs 1.4a and DSC)
Power consumption	300 W

## NVIDIA RTX A6000, 48 GB GDDR6

The following table lists the NVIDIA RTX A6000 specifications.

**Table 36. NVIDIA RTX A6000 specifications**

Feature	Values
GPU frequency	1410 MHz
DirectX 12	12
Shader model	5.17
Open CL	3
Open GL	4.6
GPU memory interface	384 bits
PCIe bus	PCIe 4.0 x16
Display support	Four DP 1.2 Certified, 1.3/1.4 Ready

**Table 36. NVIDIA RTX A6000 specifications (continued)**

<b>Feature</b>	<b>Values</b>
Graphics memory configuration	48 GB, GDDR6
Graphics memory clock speed	8001 MHz
Active fan sink	4-pin embedded fan controller
Slot number	Dual Slots
PCB form factor	Full Height, Full length
PCB layer	N/A
PCB solder mask	N/A
Bracket form factor	Full Height
Maximum resolution	7680 x 4320 x 24 bpp at 120 Hz (Requires two DPs 1.4a and DSC)
Power consumption	300 W

## NVIDIA RTX A4000, 16 GB GDDR6

The following table lists the NVIDIA RTX A4000 specifications.

**Table 37. NVIDIA RTX A4000 specifications**

<b>Feature</b>	<b>Values</b>
GPU frequency	735 MHz
DirectX 12	12
Shader model	5.17
Open CL	3
Open GL	4.6
GPU memory interface	256 bits
PCIe bus	PCIe 4.0 x16
Display support	Four DP 1.2 Certified, 1.3/1.4 Ready
Graphics memory configuration	16 GB, GDDR6
Graphics memory clock speed	7000 MHz
Active fan sink	4-pin embedded fan controller
Slot number	Single Slot
PCB form factor	Full Height, Full length
PCB layer	N/A
PCB solder mask	N/A
Bracket form factor	Full Height
Maximum resolution	7680 x 4320 x 24 bpp at 120 Hz (Requires two DPs 1.4a and DSC)
Power consumption	140 W

## NVIDIA RTX A2000, 12 GB GDDR6

The following table lists the NVIDIA RTX A2000 specifications.

**Table 38. NVIDIA RTX A2000 specifications**

Feature	Values
GPU frequency	562 MHz
DirectX 12	12
Shader model	5.17
Open CL	3
Open GL	4.6
GPU memory interface	192 bits
PCIe bus	PCIe 4.0 x16
Display support	Four mini-DP 1.2 Certified, 1.3/1.4 Ready
Graphics memory configuration	12 GB, GDDR6
Graphics memory clock speed	6001 MHz
Active fan sink	4-pin embedded fan controller
Slot number	Dual Slots
PCB form factor	Half Height, Half Length
PCB layer	N/A
PCB solder mask	N/A
Bracket form factor	Full Height
Maximum resolution	7680 x 4320 x 24 bpp at 120 Hz (Requires two DPs 1.4a and DSC)
Power consumption	70 W

## NVIDIA T1000, 8 GB GDDR6

The following table lists the NVIDIA T1000 specifications.

**Table 39. NVIDIA T1000 specifications**

Feature	Values
GPU frequency	1065 MHz
DirectX 12	12
Shader model	5.17
Open CL	3
Open GL	4.6
GPU memory interface	128 bits
PCIe bus	PCIe 3.0 x16
Display support	Four mini-DP 1.2 Certified, 1.3/1.4 Ready
Graphics memory configuration	8 GB, GDDR6
Graphics memory clock speed	5001 MHz

**Table 39. NVIDIA T1000 specifications (continued)**

<b>Feature</b>	<b>Values</b>
Active fan sink	4-pin embedded fan controller
Slot number	Single Slot
PCB form factor	Half Height
PCB layer	NA
PCB solder mask	NA
Bracket form factor	Low Profile or Full Height
Maximum resolution	7680 x 4320 x 24 bpp at 120 Hz (Requires two DPs 1.4a & DSC)
Power consumption	50 W

## NVIDIA T400, 4 GB GDDR6

The following table lists the NVIDIA T400 specifications.

**Table 40. NVIDIA T400 specifications**

<b>Feature</b>	<b>Values</b>
GPU frequency	420 MHz
DirectX 12	12
Shader model	5.17
Open CL	3
Open GL	4.6
GPU memory interface	64 bits
PCIe bus	PCIe 3.0 x16
Display support	Three mini-DP 1.2 Certified, 1.3/1.4 Ready
Graphics memory configuration	4 GB, GDDR6
Graphics memory clock speed	5001 MHz
Active fan sink	4-pin embedded fan controller
Slot number	Single Slot
PCB form factor	Half Height
PCB layer	NA
PCB solder mask	NA
Bracket form factor	Low Profile
Maximum resolution	7680 x 4320 x 24 bpp at 120 Hz (Requires two DPs 1.4a & DSC)
Power consumption	30 W

## NVIDIA GeForce RTX 4090, 24 GB, GDDR6

The following table lists the NVIDIA GeForce RTX 4090 specifications.

**Table 41. NVIDIA GeForce RTX 4090 specifications**

Feature	Values
GPU frequency	2235 MHz (base clock)
DirectX 12	12
Shader model	6.7
Open CL	3.0
Open GL	4.6
GPU memory interface	384-bit
PCIe bus	PCIe 4.0 x 16
Display support	Three DP (1.4 ready ports) and One HDMI (2.1 port)
Graphics memory configuration	24 GB, GDDR6X
Graphics memory clock speed	21 Gbps
Active fan sink	Fan Controller Embedded (4-pin)
Slot number	3
PCB form factor	Full Height
PCB layer	14 layer
Bracket form factor	Triple
Maximum resolution	4K @120 Hz or 8K@60 Hz (with DSC)
Power consumption	450 W

## AMD Radeon Pro W7600, 8 GB GDDR6

The following table lists the AMD Radeon Pro W7600 specifications.

**Table 42. AMD Radeon Pro W7600 specifications**

Feature	Values
GPU frequency	1240 MHz (base clock)
DirectX 12	12.0 Ultimate
Shader model	6.7
Open CL	2.2
Open GL	4.6
GPU memory interface	128-bit
PCIe bus	Gen 4 (x8 lanes)
Display support	x4 DP 2.1
Graphics memory configuration	8 GB DDR6
Graphics memory clock speed	2250 MHz
Active fan sink	Fan Controller Embedded (4 pin)
Slot number	Single slot

**Table 42. AMD Radeon Pro W7600 specifications (continued)**

Feature	Values
PCB form factor	Full Height, Three-Quarter Length
PCB layer	8
PCB solder mask	Matte Black
Bracket form factor	Full Height
Maximum resolution	7680 x 4320 @ 60 Hz
Power consumption	130 W

## AMD Radeon Pro W7500, 8 GB GDDR6

The following table lists the AMD Radeon Pro W7500 specifications.

**Table 43. AMD Radeon Pro W7500 specifications**

Feature	Values
GPU frequency	540 MHz (base clock)
DirectX 12	12.0 Ultimate
Shader model	6.7
Open CL	2.2
Open GL	4.6
GPU memory interface	128-bit
PCIe bus	Gen 4 (x8 lanes)
Display support	x4 DP 2.1
Graphics memory configuration	8 GB DDR6
Graphics memory clock speed	1350 MHz
Active fan sink	Fan Controller Embedded (4 pin)
Slot number	Single slot
PCB form factor	Full Height, Three-Quarter Length
PCB layer	8
PCB solder mask	Matte black
Bracket form factor	Full Height
Maximum resolution	7680 x 4320 @ 60 Hz
Power consumption	70 W

## AMD Radeon Pro W6400, 4 GB GDDR6

The following table lists the AMD Radeon Pro W6400 specifications.

**Table 44. AMD Radeon Pro W6400 specifications**

Feature	Values
GPU frequency	1923 MHz (base clock)
DirectX 12	12.0 Ultimate

**Table 44. AMD Radeon Pro W6400 specifications (continued)**

<b>Feature</b>	<b>Values</b>
Shader model	6.6
Open CL	2.2
Open GL	4.6
GPU memory interface	64-bit
PCIe bus	Gen 4 (x4 lanes)
Display support	x2 DP 1.4
Graphics memory configuration	4 GB DDR6
Graphics memory clock speed	14 Gbps
Active fan sink	Fan Controller Embedded(4 pin)
Slot number	Single slot
PCB form factor	Full Height, Full length
PCB layer	6
PCB solder mask	Black
Bracket form factor	Full Height
Maximum resolution	7680x4320 @60 Hz
Power consumption	50 W

## AMD Radeon Pro W6300, 2 GB GDDR6

The following table lists the AMD Radeon Pro W6300 specifications.

**Table 45. AMD Radeon Pro W6300 specifications**

<b>Feature</b>	<b>Values</b>
GPU frequency	1096 MHz (base clock)
DirectX 12	12.0 Ultimate
Shader model	6.1
Open CL	2.2
Open GL	4.6
GPU memory interface	32-bit
PCIe bus	Gen 4 (x4 lanes)
Display support	x2 DP 1.4
Graphics memory configuration	2 GB DDR6
Graphics memory clock speed	16 Gbps
Active fan sink	Fan Controller Embedded (4 pin)
Slot number	Single slot
PCB form factor	Full Height, Half Length
PCB layer	6
PCB solder mask	Red
Bracket form factor	Full Height

**Table 45. AMD Radeon Pro W6300 specifications (continued)**

Feature	Values
Maximum resolution	7680 x 4320 @60 Hz
Power consumption	35 W

## GPU and PSU matrix

The following table provides the GPU and PSU matrix of your Precision 7875 Tower.

**Table 46. GPU and PSU matrix**

GFx card	Card length	Weight (kg)	Power connector	I/O connector	Single/Dual slot width	PSU
NVIDIA RTX 6000 Ada Generation, 48 GB DDR6	10.50 in.	1.15	Two 8-pins	4 x DP 1.4 ports	Dual	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
NVIDIA RTX A6000, 48 GB GDDR6	10.50 in.	1.18	8-pin	4 x DP 1.2 ports	Dual	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
NVIDIA RTX A4000, 16 GB GDDR6	9.50 in.	0.50	6-pin	4 x DP 1.2 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
NVIDIA RTX A2000, 12 GB GDDR6	6.60 in.	0.306	N/A	4 x mini-DP 1.2 ports	Dual	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
NVIDIA T1000, 4 GB GDDR6	6.13 in.	0.132	N/A	4 x mini-DP 1.2 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
NVIDIA T400, 2 GB GDDR6	6.13 in.	0.123	N/A	3 x mini-DP 1.2 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
NVIDIA GeForce RTX 4090, 24 GB, GDDR6X	12.28 in.	1.63	One 16-pin	3 x DP ports 1 x HDMI port	Triple	1350 W (C20 inlet)
AMD Radeon Pro W7600, 8 GB GDDR6	9.50 in.	0.621	6-pin	4 x DP 2.1 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
AMD Radeon Pro W7500, 8 GB GDDR6	8.49 in.	0.346	N/A	4 x DP 2.1 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>
AMD Radeon Pro W6400, 4 GB GDDR6	6.60 in.	0.162	N/A	2 x DP 1.4 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>



**Table 46. GPU and PSU matrix (continued)**

GFx card	Card length	Weight (kg)	Power connector	I/O connector	Single/Dual slot width	PSU
AMD Radeon Pro W6300, 2 GB GDDR6	6 in.	0.14	N/A	2 x DP 1.4 ports	Single	<ul style="list-style-type: none"> <li>• 1000 W (C14 inlet)</li> <li>• 1350 W (C20 inlet)</li> </ul>

## Storage preloaded bracket matrix

The following table lists the storage preloaded bracket information of your Precision 7875 Tower.

**Table 47. Storage Preloaded bracket matrix**

Hard-disk drive preloaded bracket	Bracket	Caddy
3.5-inch hard drives	Yes	Included with order
2.5-inch hard drives	Yes	Included with order
SATA externally-facing storage flexbays	Yes	Included with order
M.2 externally-facing storage flexbays	Yes	Included with order

**i** **NOTE:** The storage caddies will be included in the system with the storage options configured during the ordering process.

**Table 48. Hard-disk drive Preloaded bracket matrix**

Hard-disk drive Preloaded bracket	Available
3.5 in. Caddy/Bracket	Yes
2.5 in. Caddy/Bracket	Yes

## Storage

### 3.5-inch, 12 TB, 7200 RPM, SATA, HDD

**Table 49. 3.5-inch, 12 TB, 7200 RPM, SATA, HDD specifications**

Description	Values
Capacity	12 TB
Speed	7200 RPM
Height (approximate)	25.40 mm (1.00 in.)
Width (approximate)	147.06 mm (5.79 in.)
Depth (approximate)	101.60 mm (4.00 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	3,907,029,168

**Table 49. 3.5-inch, 12 TB, 7200 RPM, SATA, HDD specifications (continued)**

Description	Values
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 W</li> <li>• Active: 10 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	65G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## 3.5-inch, 8 TB, 7200 RPM, SATA, HDD

**Table 50. 3.5-inch, 8 TB, 7200 RPM, SATA, HDD specifications**

Description	Values
Capacity	8 TB
Speed	7200 RPM
Height (approximate)	25.40 mm (1.00 in.)
Width (approximate)	147.06 mm (5.79 in.)
Depth (approximate)	101.60 mm (4.00 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	3,907,029,168
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 W</li> <li>• Active: 10 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	65G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## 3.5-inch, 4 TB, 7200 RPM, SATA, HDD

**Table 51. 3.5-inch, 4 TB, 7200 RPM, SATA, HDD specifications**

Description	Values
Capacity	4 TB
Speed	7200 RPM
Height (approximate)	25.40 mm (1.00 in.)
Width (approximate)	147.06 mm (5.79 in.)
Depth (approximate)	101.60 mm (4.00 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	3,907,029,168
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>● Idle: 5 W</li> <li>● Active: 10 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	65G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## 3.5-inch, 2 TB, 7200 RPM, SATA, HDD

**Table 52. 3.5-inch, 2 TB, 7200 RPM, SATA, HDD specifications**

Description	Values
Capacity	2 TB
Speed	7200 RPM
Height (approximate)	25.40 mm (1.00 in.)
Width (approximate)	147.06 mm (5.79 in.)
Depth (approximate)	101.60 mm (4.00 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	3,907,029,168
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>● Idle: 5 W</li> <li>● Active: 10 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	

**Table 52. 3.5-inch, 2 TB, 7200 RPM, SATA, HDD specifications (continued)**

Description	Values
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	65G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## 3.5-inch, 1 TB, 7200 RPM, SATA, HDD

**Table 53. 3.5-inch, 1 TB, 7200 RPM, SATA, HDD specifications**

Description	Values
Capacity	1 TB
Speed	7200 RPM
Height (approximate)	26.10 mm (1.02 in.)
Width (approximate)	147.06 mm (5.79 in.)
Depth (approximate)	101.60 mm (4.00 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	1,953,525,168
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>● Idle: 5 W</li> <li>● Active: 10 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	65G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## 2.5-inch, 2.4 TB, 10000 RPM, SAS, Enterprise HDD

**Table 54. 2.5-inch, 2.4 TB, 10000 RPM, SAS, Enterprise HDD specifications**

Description	Values
Capacity	2.4 TB
Speed	10000 RPM
Height (approximate)	7.11 mm (0.28 in.)
Width (approximate)	69.85 mm (2.75 in.)

**Table 54. 2.5-inch, 2.4 TB, 10000 RPM, SAS, Enterprise HDD specifications (continued)**

Description	Values
Depth (approximate)	100.58 mm (3.96 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	5,001,139,584
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>● Idle: 0.7 W</li> <li>● Active: 3.25 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	350G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## 2.5-inch, 1.2 TB, 10000 RPM, SAS, Enterprise HDD

**Table 55. 2.5-inch, 1.2 TB, 10000 RPM, SAS, Enterprise HDD specifications**

Description	Values
Capacity	1.2 TB
Speed	10000 RPM
Height (approximate)	7.11 mm (0.28 in.)
Width (approximate)	69.85 mm (2.75 in.)
Depth (approximate)	100.58 mm (3.96 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	2,500,569,792
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>● Idle: 0.7 W</li> <li>● Active: 3.25 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	350G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C

**Table 55. 2.5-inch, 1.2 TB, 10000 RPM, SAS, Enterprise HDD specifications (continued)**

Description	Values
Relative humidity range	5% to 95%

## 2.5-inch, 600 GB, 15000 RPM, SAS, Enterprise HDD

**Table 56. 2.5-inch, 600 GB, 15000 RPM, SAS, Enterprise HDD specifications**

Description	Values
Capacity	600 GB
Speed	15000 RPM
Height (approximate)	7.11 mm (0.28 in.)
Width (approximate)	69.85 mm (2.75 in.)
Depth (approximate)	100.58 mm (3.96 in.)
Interface	SATA 3.0
Speed (maximum)	Up to 6 Gbps
MTBF	550,000 hours
Logical blocks	1,250,284,896
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 0.7 W</li> <li>• Active: 3.25 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	5°C to 60°C
Relative humidity range	5% to 90%
Op shock	350G @2ms
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 65°C
Relative humidity range	5% to 95%

## M.2 2280, 4 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 4 TB SSD specifications.

**Table 57. 4 TB SSD specifications**

Capacity	4 TB
Height (approximate)	3.73 mm (0.15 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	8,001,573,552

**Table 57. 4 TB SSD specifications (continued)**

<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW ( PS4 - L1.2)</li> <li>• Active: 5 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## M.2 2280, 2 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 2 TB SSD specifications.

**Table 58. 2 TB SSD specifications**

Capacity	2 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	4,000,797,360
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW (PS4 - L1.2)</li> <li>• Active: 5 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## M.2 2280, 1 TB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 1 TB SSD specifications.

**Table 59. 1 TB SSD specifications**

Capacity	1 TB
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**Table 59. 1 TB SSD specifications (continued)**

Height (approximate)	2.38 mm (0.17 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	2,000,409,264
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW (PS4 - L1.2)</li> <li>• Active: 5 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Class 40 SSD

The following table lists the M.2 2280, 512 GB SSD specifications.

**Table 60. 512 GB SSD specifications**

Capacity	512 GB
Height (approximate)	2.38 mm (0.17 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	1,000,215,216
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW (PS4 - L1.2)</li> <li>• Active: 5 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C



**Table 60. 512 GB SSD specifications (continued)**

Relative humidity range	5% to 95%
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## M.2 2280, 1 TB, PCIe NVMe Gen4 x4, Opal Self-Encrypting Class 40 Solid-State Drive

The following table lists the M.2 2280, 1 TB SSD, self-encrypting drive specifications.

**Table 61. 1 TB SSD, self-encrypting drive specifications**

Description	Values
Capacity	1 TB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCIe Gen3
Speed (maximum)	32 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	2,000,409,264
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>Idle: 5 mW (PS4 - L12)</li> <li>Active: 4.5 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## M.2 2280, 512 GB, PCIe NVMe Gen4 x4, Opal Self-Encrypting Class 40 Solid-State Drive

The following table lists the M.2 2280, 512 GB SSD, self-encrypting drive specifications.

**Table 62. 512 GB SSD, self-encrypting drive specifications**

Description	Values
Capacity	512 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	80 mm (3.15 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)

**Table 62. 512 GB SSD, self-encrypting drive specifications (continued)**

Description	Values
MTBF	1.4M hours
Logical blocks	1,000,215,216
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW (PS4 - L12)</li> <li>• Active: 5 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

**Table 63. 256 GB SSD specifications**

Capacity	256 GB
Height (approximate)	3.5 mm (0.17 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTTF	1.4M hours
Logical blocks	500,118,192
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW (PS4)</li> <li>• Active: 4 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## M.2 2230, 256 GB, PCIe NVMe Gen4 x4, Opal Self-Encrypting, Class 35 SSD

The following table lists the M.2 2230, 256 GB SSD specifications.

**Table 64. 256 GB SSD, self-encrypting drive specifications**

Capacity	256 GB
Height (approximate)	2.38 mm (0.09 in.)
Width (approximate)	22 mm (0.87 in.)
Depth (approximate)	30 mm (1.18 in.)
Interface type	PCIe Gen4
Speed (maximum)	64 Gb/s (up to 4 lanes)
MTBF	1.4M hours
Logical blocks	500,118,192
<b>Power source</b>	
Power consumption (reference only)	<ul style="list-style-type: none"> <li>• Idle: 5 mW (PS4)</li> <li>• Active: 4 W</li> </ul>
<b>Environmental operating conditions (non-condensing)</b>	
Temperature range	0°C to 70°C
Relative humidity range	10% to 90%
Op shock	1500G
<b>Environmental non-operating conditions (non-condensing)</b>	
Temperature range	-40°C to 70°C
Relative humidity range	5% to 95%

## 8x DVD±RW, slimline

**Table 65. 8x DVD±RW, slimline specifications**

Description	Values
Height (without bezel)	9.50 mm (0.37 in.)
Width (without bezel)	128.00 mm (5.04 in.)
Depth (without bezel)	126.01 mm (4.97 in.)
Weight (maximum)	140 grams
Interface	SATA 1.5
Speed (maximum)	Up to 1.5 Gbps
Disc capacity	Standard
Internal buffer size	0.5 MB
Access times (typical)	Supplier dependent
<b>Maximum data transfer rates</b>	
Writes	8x DVD/ 24x CD
Reads	8x DVD/ 24x CD

**Table 65. 8x DVD±RW, slimline specifications (continued)**

Description	Values
<b>Power source</b>	
DC power requirements	5 V
DC current	1300 mA
<b>Environmental operating conditions (non-condensing)</b>	
Operating temperature range	5°C to 50°C
Relative humidity range	10% to 90% RH
Maximum wet bulb temperature	29°C
Altitude range	0 m to 3048 m
<b>Environmental non-operating conditions (non-condensing)</b>	
Operating temperature range	-40°C to 65°C
Relative humidity range	5% to 95% RH
Maximum wet bulb temperature	38°C
Altitude range	0 m to 10600 m

## 8x DVD-ROM, slimline

**Table 66. 8x DVD-ROM, slimline specifications**

Description	Values
Height (without bezel)	9.50 mm (0.37 in.)
Width (without bezel)	128.00 mm (5.04 in.)
Depth (without bezel)	126.01 mm (4.97 in.)
Weight (maximum)	140 grams
Interface	SATA 1.5
Speed (maximum)	Up to 1.5 Gbps
Disc capacity	Standard
Internal buffer size	0.5 MB
Access times (typical)	Supplier dependent
<b>Maximum data transfer rates</b>	
Writes	N/A
Reads	8x DVD/ 24x CD
<b>Power source</b>	
DC power requirements	5 V
DC current	1300 mA
<b>Environmental operating conditions (non-condensing)</b>	
Operating temperature range	5°C to 50°C
Relative humidity range	10% to 90% RH
Maximum wet bulb temperature	29°C
Altitude range	0 m to 3048 m

**Table 66. 8x DVD-ROM, slimline specifications (continued)**

Description	Values
<b>Environmental non-operating conditions (non-condensing)</b>	
Operating temperature range	-40°C to 65°C
Relative humidity range	5% to 95% RH
Maximum wet bulb temperature	38°C
Altitude range	0 m to 10600 m

## 16x Half Height DVD +/- R/W


**Table 67. 16x Half Height DVD +/- R/W specifications**

Description	Values
Height (without bezel)	42 mm (1.65 in.)
Width (without bezel)	148.20 mm (6 in.)
Depth (without bezel)	171 mm (6.73 in.)
Weight (maximum)	700 grams
Interface	SATA 1.5
Speed (maximum)	Up to 1.5 Gbps
Disc capacity	Standard
Internal buffer size	0.5 MB
Access times (typical)	Supplier dependent
<b>Maximum data transfer rates</b>	
Writes	16x DVD/48x CD
Reads	16x DVD/48x CD
<b>Power source</b>	
DC power requirements	12V, 5V
DC current	1.5 A (12 V)/1 A (5 V)
<b>Environmental operating conditions (non-condensing)</b>	
Operating temperature range	5°C to 50°C
Relative humidity range	20% to 80% RH
Maximum wet bulb temperature	29°C
Altitude range	-200 m to 3048 m
<b>Environmental non-operating conditions (non-condensing)</b>	
Operating temperature range	-40°C to 65°C
Relative humidity range	5% to 95% RH
Maximum wet bulb temperature	38°C
Altitude range	-200 m to 10600 m

## Media-card reader

The following table lists the media-card reader specifications of your Precision 7875 Tower.

**Table 68. Media-card reader (standard offering)**

Description	Values
 <b>NOTE:</b> Media supported (Maximum capacity supported will vary by Flash Media Types).	
Media Supported	<ul style="list-style-type: none"> <li>Secure Digital (mSD)</li> <li>Secure Digital High Capacity (mSDHC)</li> <li>Secure Digital Extended Capacity (mSDXC)</li> </ul>
Support Specification Versions	Secure Digital (SD) 6.0
<b>Power source</b>	
Max Power Requirements	1.2 A
Supply Voltage Range	3.3 V
Power Consumption	MS 0.08 mA
<b>Environmental operating conditions (Non-condensing)</b>	
Operating Temperature Range	0°C to 70°C
Relative Humidity Range	N/A
<b>Environmental non-operating conditions (Non-condensing)</b>	
Operating Temperature Range	N/A
Relative Humidity Range	N/A

## Power ratings

The following table lists the power ratings specifications of your Precision 7875 Tower.

**Table 69. Power ratings specifications**

Description	Option one	Option two
Type	1350 W Platinum internal power supply (C20 inlet)	1000 W Platinum internal power supply (C14 inlet)
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	13.60 A
Output current (continuous)	Operating: <ul style="list-style-type: none"> <li>12 VA/42 A</li> <li>12 VB/36 A</li> <li>12 VC/72 A</li> </ul> Standby mode: <ul style="list-style-type: none"> <li>12 VA/1.5 A</li> <li>12 VB/5 A</li> </ul>	Operating: <ul style="list-style-type: none"> <li>12 VA/36 A</li> <li>12 VB/27 A</li> <li>12 VC/36 A</li> </ul> Standby mode: <ul style="list-style-type: none"> <li>12 VA/1.5 A</li> <li>12 VB/5 A</li> </ul>
Rated output voltage	<ul style="list-style-type: none"> <li>+12 VA</li> <li>+12 VB</li> <li>+12 VC</li> </ul>	<ul style="list-style-type: none"> <li>+12 VA</li> <li>+12 VB</li> <li>+12 VC</li> </ul>

**Table 69. Power ratings specifications (continued)**

Description	Option one	Option two
BTUs/h (based on PSU max wattage)	4607	3412
<b>Temperature range</b>		
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)
<b>Compliance</b>		
Erp Lot6 Tier 2 requirement	Yes	Yes
80Plus compliant	Yes	Yes
Energy Star 8.0 compliant	Yes	Yes
GS mark compliant	Yes	Yes
NCTC Anti Power Surge certification	Yes	Yes
NCTC Anti Lightning Strike certification	Yes	Yes

## Thermal dissipation

The following table lists the thermal dissipation of your Precision 7875 Tower.

**Table 70. Thermal dissipation**

Power supply unit	Heat dissipation	Voltage
1350 W (80 Plus Platinum)	1350*3.412=4607 BTU/hr	100 to 240 VAC, 50 to 60 Hz, 15 A/9 A
1000 W (80 Plus Platinum)	1000*3.412=3412 BTU/hr	100 to 240 VAC, 50 to 60 Hz, 12 A/6 A

## CMOS battery

The following table lists the CMOS battery specifications of your Precision 7875 Tower.

**Table 71. CMOS battery**

Brand	Type	Voltage	Composition	Battery life
SHUNWO	CR2032	3.0 V	Lithium	220 mAh (continuous discharge at 20°C under 15 kΩ load to 2.0 V end-voltage, 20±2°C) 1030 Hrs.or longer after 12 mo. 980 Hrs.
DOUBLE BEST	CR2032	3.0 V	Lithium	220 mAh (continuous discharge at 20°C under 15 kΩ load to 2.0 V end-voltage, 20±2°C) 940 Hrs.or longer after 12 mo. 925 Hrs.
VIC-DAWN	CR2032	3.0 V	Lithium	220 mAh (continuously discharge under 15 kΩ load till 2.0V end-point voltage at the temperature of 23°C±3°C)

# Accessories

The following table lists the supported accessories on your Precision 7875 Tower.

**Table 72. Accessories**

<b>Accessories</b>
<b>Keyboard and mouse:</b>
Dell Premier Collaboration Keyboard - KB900
3Dconnexion SpaceMouse Enterprise - 3DX-700056
<b>Audio:</b>
Dell Premier Wireless ANC Headset - WL7022
Dell Slim Conferencing Soundbar- SB522A
<b>Display:</b>
Dell UltraSharp 27 4K USB-C HUB Monitor - U2723QE
Dell UltraSharp 32 HDR PremierColor Monitor - UP3221Q
<b>Webcam:</b>
Dell UltraSharp Webcam - WB7022
<b>Stands and mounts:</b>
Dell Dual Monitor Arm - MDA20
<b>Cables, dongles, and adapters:</b>
C2G High Speed 2m High Speed HDMI Cable with Ethernet for 4k Devices
VisionTek Mini DisplayPort (M) to DisplayPort (M) 1.2 - 6.6 ft 4K support DisplayPort Cable - 901212
Dell Adapter - DisplayPort to HDMI 2.0 (4K) - DANAUBC087

# Security

## Software security

The following table lists the software security details of your Precision 7875 Tower.

**Table 73. Software security**

<b>Security options</b>
McAfee Small Business Security 30-Day Free Trial
McAfee Small Business Security 12-month subscription
McAfee Small Business Security 36 month subscription
Dell Encryption Personal
Dell Encryption Enterprise
Dell Encryption External Media
Dell Bitlocker Manager
Dell SafeGuard and Response VMW Carbonblack Endpoint Standard
SafeBIOS



**Table 73. Software security (continued)**

Security options
Secure Supply Chain (former D-Pedigree)

## Trusted Platform Module

The following table lists the Trusted Platform Module (TPM) of your Precision 7875 Tower.

**Table 74. Trusted Platform Module (TPM)**

TPM: ST/ST33 HTPH2X32AHD8
SPI interface
TPM 2.0
FIPs 140-2 certificate

## Acoustic noise emission information tower

The following table lists the acoustic noise emission information of your Precision 7875 Tower.

**Table 75. Acoustic noise emission information tower**

Component	Test Configuration
CPU	AMD Ryzen Threadripper Pro 7995WX
Memory	32 GB (*8 pcs)
HDD (#, capacity)	2.5-inch hard drive (maximum 2 pcs 10K SAS drives)
ODD	No
Graphics Adapter	NVIDIA A6000 (*2 pcs)

**Table 76. Declared Sound Power (LWAd)**

Operating Mode	Declared Sound Power(LWAd)
Idle	3.75
HDD Operating	3.92
CPU Stressed	3.97
ODD Operating	4.53

**Table 77. A-Weighted Sound Pressure Level (dB)**

Declared Sound Pressure (LpA)				
Operating Mode	Tabletop System		Floor Standing System	
	Operator Position	Bystander Position	Operator Position	Bystander Position
Idle	28.80	22.50	20.40	19.50
CPU Stressed	33.20	28.40	25	24.40

All tests are conducted according to ISO 7779 and declared according to ISO 9296 except CPU Stressed. This test mode is not specified in ISO 7779, but was measured using the same microphone distances and measurement techniques defined for the other reported operating modes.

Declared Sound Power rounded to nearest tenth of a bel per ISO 9296 section 4.4.2

# Chassis enclosure and ventilation requirements

## Enclosure ventilation

If your enclosure has doors, they need to be of a type that allows at least 30% airflow through the enclosure (front and back).

## Enclosure minimum clearance

Leave a 10.20 cm (4 in.) minimum clearance on all vented sides of the computer to permit the airflow required for proper ventilation.

## Recommended enclosure

Do not install your computer in an enclosure that does not allow airflow/dusty environment/temperature over 35°C. Do not put any objects to directly block air-vent. This restricts the airflow and impacts your computer's performance, possibly causing it to overheat.

## Open desk minimum clearance

If your computer is installed in a corner, on a desk, or under a desk, leave at least 5.10 cm (2 in.) clearance from the back of the computer to the wall to permit the airflow required for proper ventilation.

# System management features

Dell commercial systems come with a number of systems management options that are included by default for In-Band management with our Dell Client Command Suite. In-Band management meaning that the Operating System is functional and the device is connected to a network so that it can be managed. The Dell Client Command Suite of tools can be leveraged individually or with a systems management console like SCCM, LANDESK, KACE, etc.

We also offer Out-of-Band management as an option. Out-of-band management is when the system does not have a functional operating system or is turned off and you still want to be able to manage the system in that state.

## Dell Client Command Suite for In-Band systems management

**Dell Client Command Suite** is a free toolkit available for download, for all Precision Workstations at [dell.com/support](http://dell.com/support), that automates and streamlines systems management tasks, saving time, money, and resources. It consists of the following modules that can be used independently, or with a variety of systems management consoles such as SCCM.

Dell Client Command Suite's integration with VMware Workspace ONE Powered by AirWatch, now allows customers to manage their Dell client hardware from the cloud, using a single Workspace ONE console.

**Dell Command | Deploy** enables easy operating system (OS) deployment across all major OS deployment methodologies and provides numerous system-specific drivers that have been extracted and reduced to an OS-consumable state.

**Dell Command | Configure** is a graphical user interface (GUI) admin tool for configuring and deploying hardware settings in a pre-OS or post-OS environment, and it operates seamlessly with SCCM and Airwatch and can be self-integrated into LANDesk and KACE. Simply, this is all about the BIOS. Command | Configure allows you to remotely automate and configure over 150+ BIOS settings for a personalized user experience.

**Dell Command | PowerShell Provider** can do the same things as Command | Configure, but with a different method. PowerShell is a scripting language that allows customers to create a customized and dynamic configuration process.

**Dell Command | Monitor** is a Windows Management Instrumentation (WMI) agent that provides IT admins with an extensive inventory of the hardware and health-state data. Admins can also configure hardware remotely by using command line and scripting.

**Dell Command | Update (end-user tool)** is factory-installed and allows admins to individually manage and automatically present and install Dell updates to the BIOS, drivers, and software. Command | Update eliminates the time-consuming hunting and pecking process of update installation.

**Dell Command | Update Catalog** provides searchable metadata that allows the management console to retrieve the latest system-specific updates (driver, firmware or BIOS). The updates are then delivered seamlessly to end-users using the customer's systems management infrastructure that is consuming the catalog (like SCCM).

**Dell Command | Integration Suite for System Center** - This suite integrates all the key components of the Client Command Suite into Microsoft System Center Configuration Manager 2012 and Current Branch versions.

## Out of Band Systems Management

It offers out-of-band management and DASH compliance ([https://registry.dmtf.org/registry/results/?field\\_initiative\\_name%3A%22DASH%201.0%22](https://registry.dmtf.org/registry/results/?field_initiative_name%3A%22DASH%201.0%22)).

## Dell Optimizer

This section details the Dell Optimizer specifications of your Precision 7875 Tower.

On Precision 7875 Tower with Dell Optimizer, the following features are supported:

- **Express Connect**—Automatically joins the access point with the strongest signal, and directs bandwidth to conferencing applications when in use.
- **ExpressResponse**—Prioritizes the most important applications. Applications open faster and perform better.
- **AudioOptimization**—The audio feature enhances the audio functionality during your online meetings. The audio feature helps filter the background noise, stabilize volume, and prioritize preferred voice streaming during online meetings.



For more information about configuring and using these features, see [Dell Optimizer User Guide](#).

# 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 78. Self-help resources**

Self-help resources	Resource location
Information about Dell products and services	<a href="http://www.dell.com">www.dell.com</a>
My Dell app	 <p><b>Figure 4. My Dell app</b></p>
Tips	 <p><b>Figure 5. Tips</b></p>
Contact Support	In Windows search, type <code>Contact Support</code> , and press Enter.
Online help for operating system	<a href="http://www.dell.com/support/windows">www.dell.com/support/windows</a> <a href="http://www.dell.com/support/linux">www.dell.com/support/linux</a>
Access top solutions, diagnostics, drivers and downloads, and learn more about your computer through videos, manuals, and documents.	<p>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 <a href="http://www.dell.com/support">www.dell.com/support</a>.</p> <p>For more information about how to find the Service Tag for your computer, see <a href="#">Locate the Service Tag on your computer</a>.</p>
Dell knowledge base articles	<ol style="list-style-type: none"> <li>1. Go to <a href="http://www.dell.com/support">www.dell.com/support</a>.</li> <li>2. On the menu bar at the top of the Support page, select <b>Support &gt; Knowledge Base</b>.</li> <li>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.</li> </ol>

## Contacting Dell

To contact Dell for sales, technical support, or customer service issues, see [www.dell.com/contactdell](http://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.