

Precision 7960 Rack

Setup and Specifications

Notes, cautions, and warnings

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

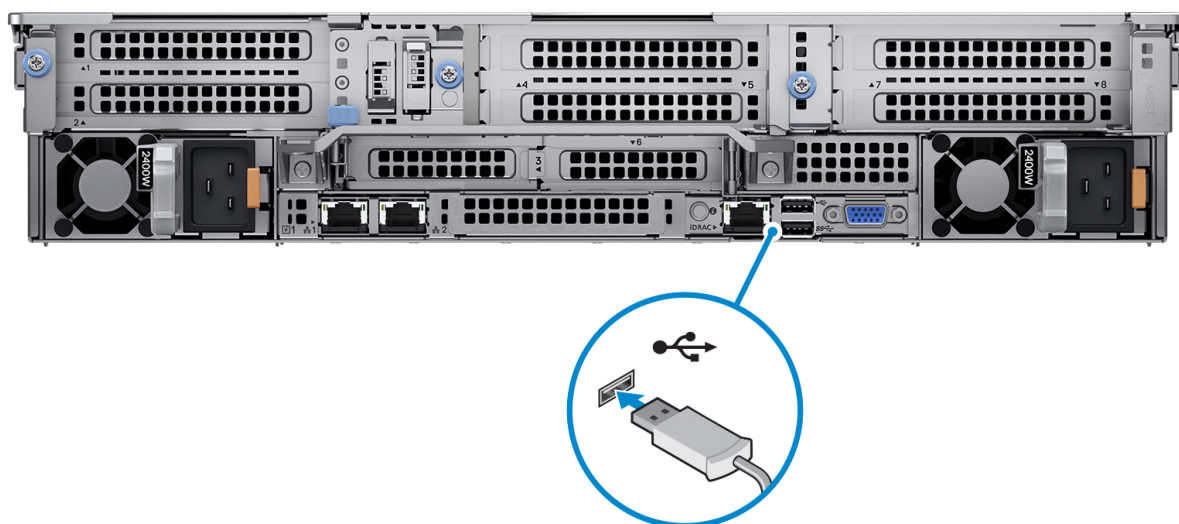
 **CAUTION:** A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

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

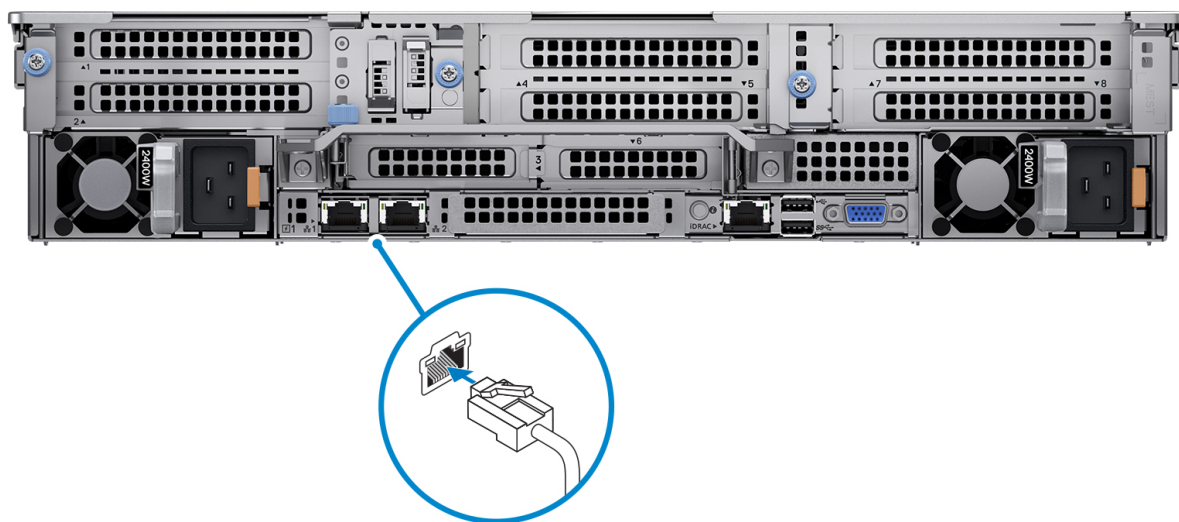
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Set up your computer

1. Connect the keyboard and mouse.

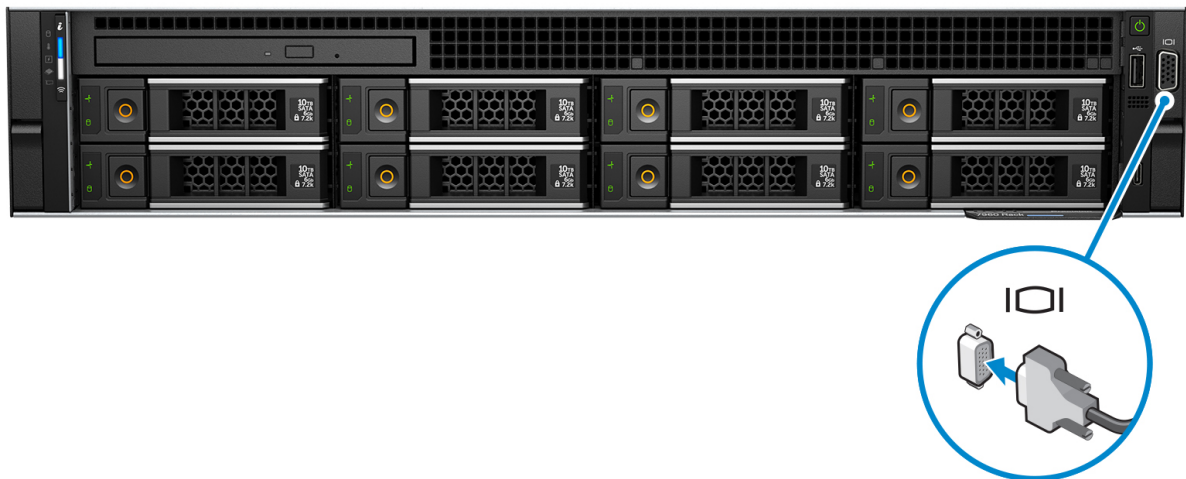


2. Connect to your network using a cable.



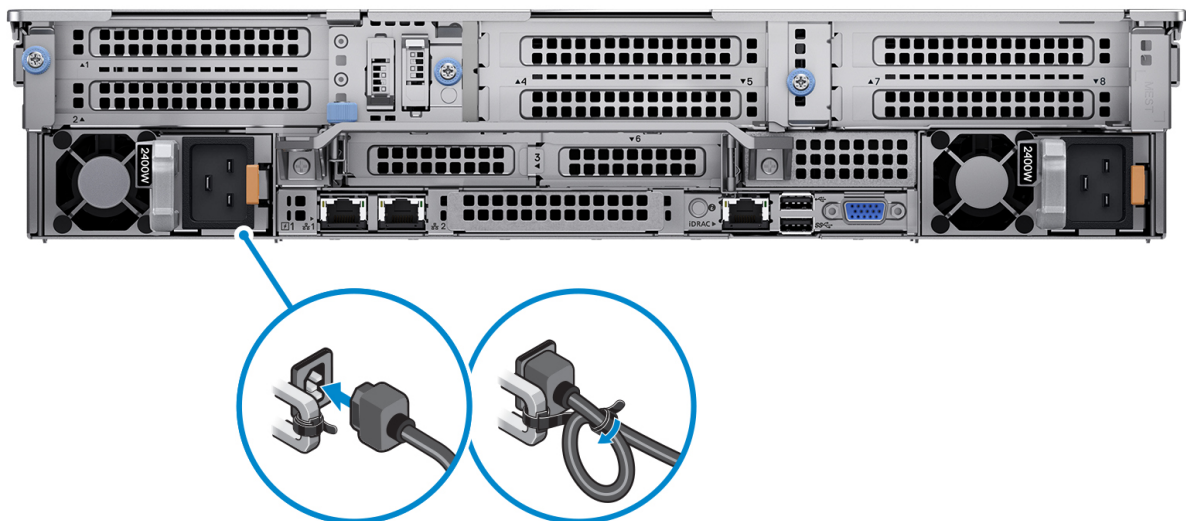
i **NOTE:** Alternatively, you can connect to a wireless network.

3. Connect the display.

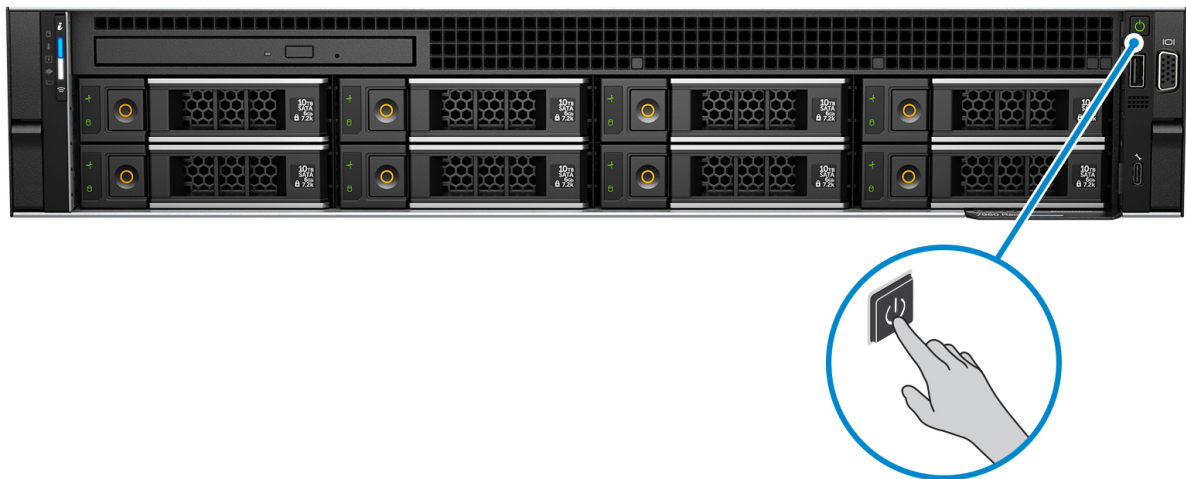


NOTE: If you ordered your computer with a discrete graphics card, the HDMI and the display ports on the back panel of your computer are covered. Connect the display to the port on the discrete graphics card.

4. Connect the power cable.



5. Press the power button.



6. Finish Windows setup.

Follow the on-screen instructions to complete the setup. When setting up, Dell recommends that you:

- Connect to a network for Windows updates.
i **NOTE:** If connecting to a secured wireless network, enter the password for the wireless network access when prompted.
- If connected to the internet, sign-in with or create a Microsoft account. If not connected to the internet, create an offline account.
- On the **Support and Protection** screen, enter your contact details.

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

Table 1. Locate Dell apps

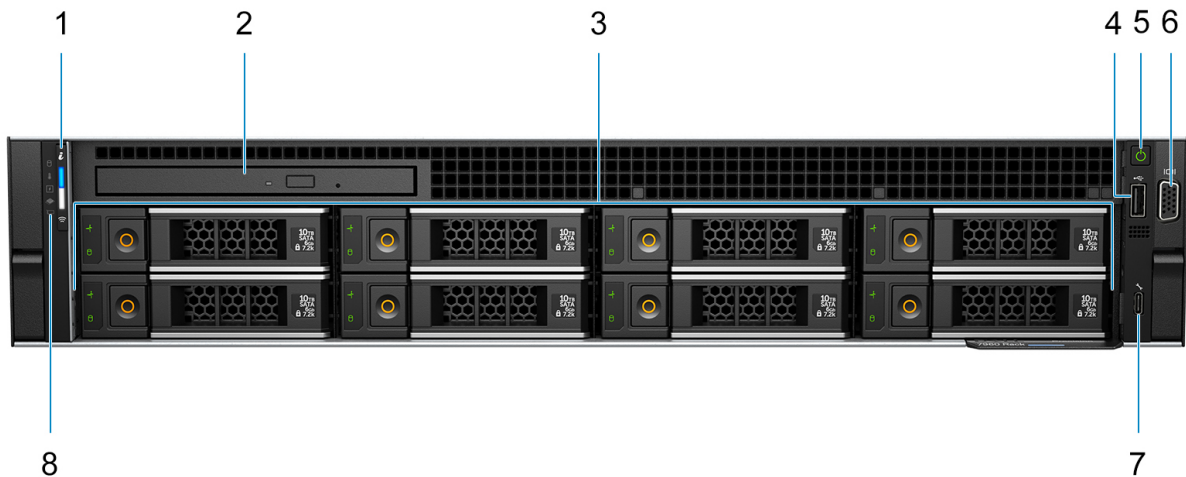
Resources	Description
	My Dell Centralized location for key Dell applications, help articles, and other important information about your computer. It also notifies you about the warranty status, recommended accessories, and software updates if available.
	SupportAssist SupportAssist proactively and predictively identifies hardware and software issues on your computer and automates the engagement process with Dell Technical support. It addresses performance and stabilization issues, prevents security threats, monitors, and detects hardware 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 . i 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

Table 1. Locate Dell apps

Resources	Description
	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 .

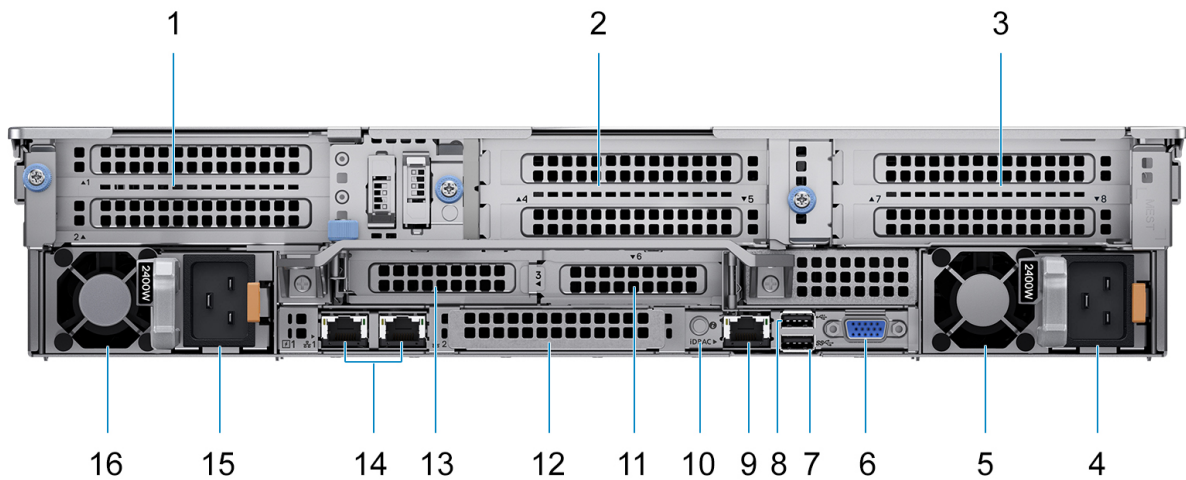
Views of Precision 7960 Rack

Front



1. System health and system ID indicator
2. 8x DVD-ROM 9.5 mm optical drive
3. Eight Storage bays for 3.5-inch or 2.5-inch HDD
4. USB 2.0 port
5. Power button
6. VGA port
7. iDRAC Direct port (1x Micro USB)
8. Status LED - Drive indicator, Temperature indicator, Electrical indicator, Memory indicator, and PCIe indicator

Back



1. PCIe expansion card riser 1 (slot 1 and slot 2)
2. PCIe expansion card riser 3 (slot 4 and slot 5)
3. PCIe expansion card riser 4 (slot 7)
4. Power supply unit (PSU2)
5. PSU2 fan
6. VGA port - to view POST screen*
***NOTE:** *For Linux OS, VGA is disabled by default*
7. USB 3.0 port
8. USB 2.0 port
9. iDRAC9 Enterprise Dedicated Network connector
10. System ID button
11. PCIe expansion card riser 2 (Low Profile slot 6)
12. OCP3 NIC card (optional)
13. PCIe expansion card riser 2 (Low Profile slot 3)
14. Two RJ45 Ethernet ports
15. Power supply unit (PSU1)
16. PSU1 fan

Specifications of Precision 7960 Rack

Dimensions and weight

The following table lists the height, width, depth, and weight of your Precision 7960 Rack.

Table 2. Dimensions and weight

Description	Values
Width:	
Front width	482.00 mm (18.97 in.)
Rear width	434.00 mm (17.08 in.)
Height	86.80 mm (3.41 in.)
Depth with bezel	772.13 mm (30.39 in.)
Weight  NOTE: The weight of your computer depends on the configuration ordered and manufacturing variability.	- Minimum: 20.98 kg (46.25 lb) - Maximum: 29.64 kg (65.36 lb)

Processors

The following table lists the details of the processors supported by your Precision 7960 Rack

Table 3. Processors

Processor type	Processor wattage	Processor core count	Processor thread count	Processor speed	Processor cache	Integrated graphics
Intel Xeon Silver 4410Y	150 W	12	24	2.0 GHz to 3.9 GHz Turbo	30 MB	Not supported
Intel Xeon Gold 5415+	150 W	8	16	2.9 GHz to 4.1 GHz Turbo	23 MB	Not supported
Intel Xeon Silver 4416+	165 W	20	40	2.0 GHz to 3.9 GHz Turbo	38 MB	Not supported
Intel Xeon Gold 5418Y	185 W	24	48	2.0 GHz to 3.8 GHz Turbo	45 MB	Not supported
Intel Xeon Gold 5420+	205 W	28	56	2.0 GHz to 4.1 GHz Turbo	53 MB	Not supported
Intel Xeon Gold 6430	270 W	32	64	2.1 GHz to 3.4 GHz Turbo	60 MB	Not supported
Intel Xeon Gold 6434	195 W	8	16	3.7 GHz to 4.1 GHz Turbo	23 MB	Not supported

Table 3. Processors (continued)

Processor type	Processor wattage	Processor core count	Processor thread count	Processor speed	Processor cache	Integrated graphics
Intel Xeon Gold 6426Y	225 W	16	32	2.6 GHz to 4.0 GHz Turbo	38 MB	Not supported
Intel Xeon Gold 6442Y	225 W	24	48	2.6 GHz to 4.0 GHz Turbo	60 MB	Not supported
Intel Xeon Gold 6448Y	225 W	32	64	2.1 GHz to 4.1 GHz Turbo	60 MB	Not supported
Intel Xeon Gold 6444Y	270 W	16	32	3.6 GHz to 4.0 GHz Turbo	45 MB	Not supported
Intel Xeon Platinum 8452Y	300 W	36	72	2.0 GHz to 3.2 GHz Turbo	68 MB	Not supported
Intel Xeon Platinum 8460Y+	300 W	40	80	2.0 GHz to 3.7 GHz Turbo	105 MB	Not supported
Intel Xeon Platinum 8462Y+	300 W	32	64	2.8 GHz to 4.1 GHz Turbo	60 MB	Not supported
Intel Xeon Platinum 8468	300 W	48	96	2.1 GHz to 3.8 GHz Turbo	105 MB	Not supported
Intel Xeon Platinum 8470	350 W	52	104	2.0 GHz to 3.8 GHz Turbo	105 MB	Not supported
Intel Xeon Platinum 8480+	350 W	56	112	2.0 GHz to 3.8 GHz Turbo	105 MB	Not supported

Chipset

The following table lists the details of the chipset supported by your Precision 7960 Rack.

Table 4. Chipset

Description	Values
Chipset	Intel C741
Processor	Intel
DRAM bus width	64-bit
Flash EPROM	32 MB + 16 MB
PCIe bus	Up to Gen 3.0
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

Table 4. Chipset (continued)

Description	Values
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

Memory

The following table lists the memory specifications of your Precision 7960 Rack.

Table 5. Memory specifications

Description	Values
Memory slots	- Single processor - has 8 memory channels with 16 DIMM slots. - Dual processors - have 8 memory channels per processor with total of 32 DIMM slots.
Memory type	DDR5
Memory speed	4800 MHz
Maximum memory configuration	2 TB
Minimum memory configuration	16 GB
Memory size per slot	16 GB, 32 GB, 64 GB
Memory configurations supported	16 GB, 1 x 16 GB, DDR5, 4800 MHz 32 GB, 1 x 32 GB, DDR5, 4800 MHz 32 GB, 2 x 16 GB, DDR5, 4800 MHz 64 GB, 1 x 64 GB, DDR5, 4800 MHz 64 GB, 2 x 32 GB, DDR5, 4800 MHz 64 GB, 4 x 16 GB, DDR5, 4800 MHz 96 GB, 6 x 16 GB, DDR5, 4800 MHz 128 GB, 2 x 64 GB, DDR5, 4800 MHz 128 GB, 4 x 32 GB, DDR5, 4800 MHz 128 GB, 8 x 16 GB, DDR5, 4800 MHz 192 GB, 6 x 32 GB, DDR5, 4800 MHz 192 GB, 12 x 16 GB, DDR5, 4800 MHz 256 GB, 4 x 64 GB, DDR5, 4800 MHz 256 GB, 8 x 32 GB, DDR5, 4800 MHz 256 GB, 16 x 16 GB, DDR5, 4800 MHz 384 GB, 6 x 64 GB, DDR5, 4800 MHz 384 GB, 12 x 32 GB, DDR5, 4800 MHz 384 GB, 24 x 16 GB, DDR5, 4800 MHz 512 GB, 8 x 64 GB, DDR5, 4800 MHz 512 GB, 32 x 16 GB, DDR5, 4800 MHz 768 GB, 12 x 64 GB, DDR5, 4800 MHz 768 GB, 24 x 32 GB, DDR5, 4800 MHz 1 TB, 16 x 64 GB, DDR5, 4800 MHz 1 TB, 32 x 32 GB, DDR5, 4800 MHz 1.5 TB, 24 x 64 GB, DDR5, 4800 MHz 2 TB, 32 x 64 GB, DDR5, 4800 MHz

Table 5. Memory specifications (continued)

Description	Values
	NOTE: - When 12 or 16 memory DIMM slots are populated in a single processor system, 4800 MHz memory will clock down to 4400 MHz. - When 24 or 32 memory DIMM slots are populated in a dual processor system, 4800 MHz memory will clock down to 4400 MHz. - Memory speed that is supported will vary according to the processor selected. 128 GB and 256 GB RDIMMs will be available in the future supporting up to 8 TB.

Memory matrix

The following table lists the memory configurations that are supported on your Precision 7960 Rack.

The Precision 7960 Rack memory matrix outlines an order by Channel or DIMM-number in which DIMMs are populated in the memory slots.

16 GB configuration

Main Memory				CPU2																CPU1															
Total (GB)	DPC	Memory physical Frequency	System running Frequency	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D
				B8	B16	B2	B10	B6	B14	B4	B12	B9	B1	B15	B7	B11	B3	B13	B5	A8	A16	A2	A10	A6	A14	A4	A12	A9	A1	A15	A7	A11	A3	A13	A5
R-DIMM																																			
16	1DPC	4800	4800																																16
32	1DPC	4800	4800																			16												16	
64	1DPC	4800	4800																			16					16							16	
96	1DPC	4800	4800																			16		16		16							16		16
128	1DPC	4800	4800																			16		16		16		16				16		16	16
192	2DPC	4800	4400																			16		16		16		16		16		16	16	16	16
256	2DPC	4800	4400																			16	16	16	16	16	16	16	16	16	16	16	16	16	16
32	1DPC	4800	4800										16																						16
64	1DPC	4800	4800										16																						16
128	1DPC	4800	4800										16																						16
192	1DPC	4800	4800										16																						16
256	1DPC	4800	4800										16																						16
384	2DPC	4800	4400										16																						16
512	2DPC	4800	4400										16																						16

32 GB configuration

Main Memory				CPU2																CPU1															
Total (GB)	DPC	Memory physical Frequency	System running Frequency	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D	CH H	CH G	CH F	CH E	CH A	CH B	CH C	CH D
				B8	B16	B2	B10	B6	B14	B4	B12	B9	B1	B15	B7	B11	B3	B13	B5	A8	A16	A2	A10	A6	A14	A4	A12	A9	A1	A15	A7	A11	A3	A13	A5
R-DIMM																																			
32	1DPC	4800	4800																																32
64	1DPC	4800	4800																																32
128	1DPC	4800	4800																																32
192	1DPC	4800	4800																																32
256	1DPC	4800	4800																																32
384	2DPC	4800	4400																																32
512	2DPC	4800	4400																																32
64	1DPC	4800	4800										32																						32
128	1DPC	4800	4800										32																						32
256	1DPC	4800	4800										32																						32
384	1DPC	4800	4800										32																						32
512	1DPC	4800	4800										32																						32
768	2DPC	4800	4400										32																						32
1024	2DPC	4800	4400										32																						32

64 GB configuration

[illegible]

128 GB configuration

[illegible]

256 GB configuration

[illegible]

External ports

The following table lists the external ports of your Precision 7960 Rack.

Table 6. External ports

Description	Values
Network port	- One iDRAC9 Enterprise Dedicated Network connector (rear) 2 RJ45 Ethernet ports, 1 GbE (LOM card option) 4 RJ45 Ethernet ports, 1 GbE (OCP3 card option) 4 RJ45 Ethernet ports, 10 GbE (OCP3 card option) 4 SFP28 Ethernet ports, 25 GbE (OCP3 card option)
USB ports	- One iDRAC Direct port (front) - One USB 2.0 port (front) - One USB 2.0 port (rear) - One USB 3.0 Gen 1 port (rear)
Audio port	N/A
Video port	- One VGA port (front) - One VGA port (rear) - via Discrete GPU
Media-card reader	N/A
Power-adaptor port	Not supported
Security-cable slot	Chassis lock support - Coin locker

Storage bays

The following table lists the storage bays of your Precision 7960 Rack.

Table 7. Storage bays

Description	Values
SATA/SAS	- Eight storage bays for 3.5-inch or 2.5-inch HDD - Drive bays support SATA and SAS drives with VROC or optional PERC RAID controller.

Ethernet

The following table lists the wired Ethernet Local Area Network (LAN) specifications of your Precision 7960 Rack.

Table 8. Ethernet specifications

Description	Values
Model number	Broadcom BCM5720 (optional)
Transfer rate	1 GbE x2

Storage

This section lists the storage options on your Precision 7960 Rack.

Your system supports one or more of the following storage drives:

- Eight storage bays for 3.5-inch or 2.5-inch hard drive
- Drive bays support SATA and SAS drives with optional PERC RAID controller.

Table 9. Storage specifications

Storage type	Interface type	Capacity
2.5-inch, 15k RPM, Enterprise hard-disk drive	SAS	600 GB
2.5-inch, 10k RPM, Enterprise hard-disk drive	SAS	Up to 2.4 TB
3.5-inch, 7200 RPM, Enterprise hard-disk drive	SATA	Up to 12 TB
2.5-inch, MU, SSD	SATA	1.92 TB

Storage Matrix

This section lists the storage options on your Precision 7960 Rack.

C4 configuration

Precision 7960 Rack	Config ID	SATA / SAS	Device Type	Boot Drive (OS Location)	1st HDD	2nd HDD	3rd HDD	4th HDD	5th HDD	6th HDD	7th HDD	8th HDD	ODD (Slimline)	# of Zoom2 Cards Allowed	# of Zoom4 Cards allowed	HDD Controller options	Note
C4	21	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y								OK	1	Up to 2	Integrated	FI
	22	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y							OK	1	Up to 2	Integrated	FI
	23	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y	Y						OK	1	Up to 2	Integrated	FI
	24	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y	Y	Y					OK	1	Up to 2	Integrated	FI
	25	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y	Y	Y	Y				OK	1	Up to 2	Integrated	FI
	26	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y	Y	Y	Y	Y			OK	1	Up to 2	Integrated	FI
	27	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y	Y	Y	Y	Y	Y		OK	1	Up to 2	Integrated	FI
	28	Zoom Boot	Zoom Boot + SATA JBOD	Zoom	Y	Y	Y	Y	Y	Y	Y	Y	OK	1	Up to 2	Integrated	FI
	29	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0							OK	1	Up to 2	Integrated	FI
	30	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0						OK	1	Up to 2	Integrated	FI
	31	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0					OK	1	Up to 2	Integrated	FI
	32	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 1	RAID 1							OK	1	Up to 2	Integrated	FI
	33	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5						OK	1	Up to 2	Integrated	FI
	34	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5					OK	1	Up to 2	Integrated	FI
	35	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 10	RAID 10	RAID 10	RAID 10					OK	1	Up to 2	Integrated	FI

C10 configuration

Precision 7960 Rack	Config ID	SATA / SAS	Device Type	Boot Drive (OS Location)	1st HDD	2nd HDD	3rd HDD	4th HDD	5th HDD	6th HDD	7th HDD	8th HDD	ODD (limit)	# of Zoom2 Cards Allowed	# of Zoom4 Cards allowed	HDD Controller options	Note
	102	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0							OK	1	Up to 2	PERC	FI
	103	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0						OK	1	Up to 2	PERC	FI
	104	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0					OK	1	Up to 2	PERC	FI
	105	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0				OK	1	Up to 2	PERC	FI
	106	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0			OK	1	Up to 2	PERC	FI
	107	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0		OK	1	Up to 2	PERC	FI
	108	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	OK	1	Up to 2	PERC	FI
	109	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 1	RAID 1							OK	1	Up to 2	PERC	FI
	110	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5						OK	1	Up to 2	PERC	FI
	111	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5					OK	1	Up to 2	PERC	FI
	112	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5				OK	1	Up to 2	PERC	FI
	113	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5			OK	1	Up to 2	PERC	FI
	114	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5		OK	1	Up to 2	PERC	FI
	115	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	OK	1	Up to 2	PERC	FI
	116	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 10	RAID 10	RAID 10	RAID 10					OK	1	Up to 2	PERC	FI
	117	Zoom Boot	Zoom Boot + SATA RAID	Zoom	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	OK	1	Up to 2	PERC	FI

Precision 7960 Rack	Config ID	SATA / SAS	Device Type	Boot Drive (OS Location)	1st HDD	2nd HDD	3rd HDD	4th HDD	5th HDD	6th HDD	7th HDD	8th HDD	ODD (limit)	# of Zoom2 Cards Allowed	# of Zoom4 Cards allowed	HDD Controller options	Note
	118	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y								OK	1	Up to 2	PERC	FI
	119	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y							OK	1	Up to 2	PERC	FI
	120	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y	Y						OK	1	Up to 2	PERC	FI
	121	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y	Y	Y					OK	1	Up to 2	PERC	FI
	122	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y	Y	Y	Y				OK	1	Up to 2	PERC	FI
	123	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y	Y	Y	Y	Y			OK	1	Up to 2	PERC	FI
	124	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y	Y	Y	Y	Y	Y		OK	1	Up to 2	PERC	FI
	125	Zoom Boot	Zoom Boot + SAS JBOD	Zoom	Y	Y	Y	Y	Y	Y	Y	Y	OK	1	Up to 2	PERC	FI

Precision 7960 Rack	Config ID	SATA / SAS	Device Type	Boot Drive (OS Location)	1st HDD	2nd HDD	3rd HDD	4th HDD	5th HDD	6th HDD	7th HDD	8th HDD	ODD (limit)	# of Zoom2 Cards Allowed	# of Zoom4 Cards allowed	HDD Controller options	Note
	126	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0							OK	1	Up to 2	PERC	FI
	127	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0	RAID 0						OK	1	Up to 2	PERC	FI
	128	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0					OK	1	Up to 2	PERC	FI
	129	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0				OK	1	Up to 2	PERC	FI
	130	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0			OK	1	Up to 2	PERC	FI
	131	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0		OK	1	Up to 2	PERC	FI
	132	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	OK	1	Up to 2	PERC	FI
	133	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 1	RAID 1							OK	1	Up to 2	PERC	FI
	134	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 5	RAID 5	RAID 5						OK	1	Up to 2	PERC	FI
	135	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5					OK	1	Up to 2	PERC	FI
	136	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5				OK	1	Up to 2	PERC	FI
	137	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5			OK	1	Up to 2	PERC	FI
	138	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5		OK	1	Up to 2	PERC	FI
	139	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	OK	1	Up to 2	PERC	FI
	140	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 10	RAID 10	RAID 10	RAID 10					OK	1	Up to 2	PERC	FI
	141	Zoom Boot	Zoom Boot + SAS RAID	Zoom	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	RAID 10	OK	1	Up to 2	PERC	FI

C11 configuration

Precision 7960 Rack	Config ID	SATA / SAS	Device Type	Boot Drive (OS Location)	1st HDD	2nd HDD	3rd HDD	4th HDD	5th HDD	6th HDD	7th HDD	8th HDD	ODD(Slimline)	# of Zoom2 Cards Allowed	# of Zoom4 Cards allowed	HDD Controller options	Note
C11	142	Zoom Only	Zoom Boot single	Zoom Boot									OK	1	Up to 2	Integrated	FI

C1Z - Dell Ultra Speed Duo card configuration

C-Config				1st Zoom4				2nd Zoom4										
Config Type	Device Type	Boot Drive (OS Location) HDD C4, C10 & C11 only	1st M.2 SSD	2nd M.2 SSD	3rd M.2 SSD	4th M.2 SSD	5th M.2 SSD	6th M.2 SSD	7th M.2 SSD	8th M.2 SSD	# of Zoom2 Cards	# of Zoom4 Cards	Total Number of M.2 Devices (No mixing Zoom2 + Zoom4)	Dual CPU Required	VROC Standard Key Required Y/N	VROC Premium key Required Y/N	ODD(Slimline)	
C1Z	Zoom2	Zoom2 JBOD	Zoom2 1st SSD Boot	Y							1	0	1	No	N	N	OK	
	Zoom2	Zoom2 JBOD	Zoom2 1st SSD Boot	Y	Y						1	0	2	No	N	N	OK	

C2Z - Dell Ultra Speed Duo card configuration

C-Config				1st Zoom4				2nd Zoom4										
Config Type	Device Type	Boot Drive (OS Location) HDD C4, C10 & C11 only	1st M.2 SSD	2nd M.2 SSD	3rd M.2 SSD	4th M.2 SSD	5th M.2 SSD	6th M.2 SSD	7th M.2 SSD	8th M.2 SSD	# of Zoom2 Cards	# of Zoom4 Cards	Total Number of M.2 Devices (No mixing Zoom2 + Zoom4)	Dual CPU Required	VROC Standard Key Required Y/N	VROC Premium key Required Y/N	ODD(Slimline)	
C2Z	Zoom2	Zoom2 RAID 0	Zoom2 RAID Volume	RAID 0	RAID 0						1	0	2	No	Y	Y	OK	
	Zoom2	Zoom2 RAID 1	Zoom2 RAID Volume	RAID 1	RAID 1						1	0	2	No	Y	Y	OK	

C3Z - Dell Ultra Speed Quad card configuration

C-Config	Config Type	Device Type	Boot Drive (OS Location) HDD C4, C10 & C11 only	1st Zoom4				2nd Zoom4				# of Zoom2 Cards	# of Zoom4 Cards	Total Number of M.2 Devices (No mixing Zoom2 + Zoom4)	Dual CPU Required	VROC Standard Key Required Y/N	VROC Premium key Required Y/N	ODD(Slimline)
				1st M.2 SSD	2nd M.2 SSD	3rd M.2 SSD	4th M.2 SSD	5th M.2 SSD	6th M.2 SSD	7th M.2 SSD	8th M.2 SSD							
C3Z	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y								0	1	1	No	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y							0	1	2	No	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y	Y						0	1	3	No	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y	Y	Y					0	1	4	No	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y	Y	Y	Y				0	2	5	Yes	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y	Y	Y	Y	Y			0	2	6	Yes	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y	Y	Y	Y	Y	Y		0	2	7	Yes	N	N	OK
	Zoom4	Zoom4 JBOD	Zoom4 1st SSD Boot	Y	Y	Y	Y	Y	Y	Y	Y	0	2	8	Yes	N	N	OK

C4Z - Dell Ultra Speed Quad card configuration

C-Config	Config Type	Device Type	Boot Drive (OS Location) HDD C4, C10 & C11 only	1st Zoom4				2nd Zoom4				# of Zoom2 Cards	# of Zoom4 Cards	Total Number of M.2 Devices (No mixing Zoom2 + Zoom4)	Dual CPU Required	VROC Standard Key Required Y/N	VROC Premium key Required Y/N	ODD(Slimline)
				1st M.2 SSD	2nd M.2 SSD	3rd M.2 SSD	4th M.2 SSD	5th M.2 SSD	6th M.2 SSD	7th M.2 SSD	8th M.2 SSD							
C4Z	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0							0	1	2	No	Y	Y	OK
	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0	RAID 0						0	1	3	No	Y	Y	OK
	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0	RAID 0	RAID 0					0	1	4	No	Y	Y	OK
	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0				0	2	5	Yes	Y	Y	OK
	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0			0	2	6	Yes	Y	Y	OK
	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0		0	2	7	Yes	Y	Y	OK
	Zoom4	Zoom4 RAID 0	Zoom4 RAID Volume	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	0	2	8	Yes	Y	Y	OK
	Zoom4	Zoom4 RAID 1	Zoom4 RAID Volume	RAID 1	RAID 1							0	1	2	No	Y	Y	OK
	Zoom4	Zoom4 RAID 10	Zoom4 RAID Volume	RAID 10	RAID 10	RAID 10	RAID 10					0	1	4	No	Y	Y	OK
	Zoom4	Zoom4 RAID 5	Zoom4 RAID Volume	RAID 5	RAID 5	RAID 5						0	1	3	No	N	Y	OK
	Zoom4	Zoom4 RAID 5	Zoom4 RAID Volume	RAID 5	RAID 5	RAID 5	RAID 5					0	1	4	No	N	Y	OK
	Zoom4	Zoom4 RAID 5	Zoom4 RAID Volume	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5				0	2	5	Yes	N	Y	OK
	Zoom4	Zoom4 RAID 5	Zoom4 RAID Volume	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5			0	2	6	Yes	N	Y	OK
	Zoom4	Zoom4 RAID 5	Zoom4 RAID Volume	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5		0	2	7	Yes	N	Y	OK
	Zoom4	Zoom4 RAID 5	Zoom4 RAID Volume	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	0	2	8	Yes	N	Y	OK

C5Z - Dell Ultra Speed Quad card configuration

C-Config	Config Type	Device Type	Boot Drive (OS Location) HDD C4, C10 & C11 only	1st Zoom4				2nd Zoom4				# of Zoom2 Cards	# of Zoom4 Cards	Total Number of M.2 Devices (No mixing Zoom2 + Zoom4)	Dual CPU Required	VROC Standard Key Required Y/N	VROC Premium key Required Y/N	ODD(Slimline)
				1st M.2 SSD	2nd M.2 SSD	3rd M.2 SSD	4th M.2 SSD	5th M.2 SSD	6th M.2 SSD	7th M.2 SSD	8th M.2 SSD							
C5Z	Zoom4	Zoom4 SSD Boot + RAID 0	Zoom4 1st SSD Boot	Boot	RAID 0	RAID 0						0	1	3	No	Y	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 0	Zoom4 1st SSD Boot	Boot	RAID 0	RAID 0	RAID 0					0	1	4	No	Y	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 5	Zoom4 1st SSD Boot	Boot	RAID 5	RAID 5	RAID 5					0	1	4	No	N	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 0	Zoom4 1st SSD Boot	Boot	RAID 0	RAID 0	RAID 0	RAID 0				0	1	5	Yes	Y	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 0	Zoom4 1st SSD Boot	Boot	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0			0	2	6	Yes	Y	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 0	Zoom4 1st SSD Boot	Boot	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0		0	2	7	Yes	Y	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 0	Zoom4 1st SSD Boot	Boot	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	RAID 0	0	2	8	Yes	Y	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 5	Zoom4 1st SSD Boot	Boot	RAID 5	RAID 5	RAID 5	RAID 5				0	1	5	Yes	N	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 5	Zoom4 1st SSD Boot	Boot	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5			0	2	6	Yes	N	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 5	Zoom4 1st SSD Boot	Boot	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5		0	2	7	Yes	N	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 5	Zoom4 1st SSD Boot	Boot	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	RAID 5	0	2	8	Yes	N	Y	OK
	Zoom4	Zoom4 SSD Boot + RAID 1	Zoom4 1st SSD Boot	Boot	RAID 1	RAID 1						0	1	3	No	Y	Y	OK

RAID (Redundant Array of Independent Disks)

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

The Dell Technologies PowerEdge RAID Controller (PERC) H755 is a RAID disk array controller made by Dell for the Precision 7960 Rack. It has the following characteristics:

- Provides reliability, high performance, and fault-tolerant disk subsystem management.
- Offers RAID control capabilities including support for RAID levels 0, 1, 5, 10.
- Complies with Serial Attached SCSI (SAS) 3.0 providing up to 12 Gb/sec throughput.
- Supports Dell-qualified Serial Attached SCSI (SAS), SATA hard drives, and solid state drives (SSDs).

NOTE: Mixing disks of different speeds (7,200 RPM, 10,000 RPM, or 15,000 RPM) and bandwidth (3 Gbps, 6 Gbps, or 12 Gbps) while maintaining the same drive type (SAS or SATA) and technology (hard drive or SSD) is supported.

NOTE: Mixing SAS and SATA is not supported. Also, mixing hard drives and SSDs in a virtual disk is not supported.

NOTE: For the safety, regulatory, and ergonomic information that is associated with these devices, and for more information about the Integrated Dell Remote Access Controller (iDRAC) or Lifecycle Controller (LC) remote management, see your platform documentation.

Table 10. RAID configurations

Type	Supported
RAID 0	Yes
RAID 1	Yes

Table 10. RAID configurations (continued)

Type	Supported
RAID 5	Yes
RAID 10	Yes

Power ratings

The following table lists the power rating specifications of Precision 7960 Rack.

Table 11. Power ratings

Type	800 W Platinum	1100 W Titanium		2400 W Platinum	
		1050W	1100W	1400W	2400W
Input voltage					
Minimum	90 VAC	90 VAC	180 VAC	90 VAC	180 VAC
Maximum	264 VAC	132 VAC	264 VAC	132 VAC	264 VAC
Input frequency					
Minimum	47 Hz	47 Hz	47 Hz	47 Hz	47 Hz
Maximum	63 Hz	63 Hz	63 Hz	63 Hz	63 Hz
Maximum input current	10.4 A	13.5 A	7 A	18 A	14.9 A
Input voltage					
Minimum	192 VDC	N/A	192 VDC	N/A	192 VDC
Maximum	288 VDC	N/A	288 VDC	N/A	288 VDC
Maximum input current	4.9 A	N/A	6.7 A	N/A	14.3 A
Output current, continuous	+12 V/65.57 A STBY/2 A	+12 V/86.07 A STBY/2 A	+12 V/90.16 A STBY/2 A	+12 V/114.75 A STBY/2 A	+12 V/196.72 A STBY/2 A
Rated Output Voltage	+12V: 12.2 V STBY: 12 V	+12V: 12.2 V STBY: 12 V	+12V: 12.2 V STBY: 12 V	+12V: 12.2 V STBY: 12 V	+12V: 12.2 V STBY: 12 V
Minimum operating temperature	0°C	0°C	0°C	0°C	0°C
Maximum operating temperature	55°C	55°C	55°C	55°C	55°C
Minimum storage temperature	-40°C	-40°C	-40°C	-40°C	-40°C
Maximum storage temperature	70°C	70°C	70°C	70°C	70°C

Power cord

This section lists the power-cord plug types for 2400 W PSU on your Precision 7960 Rack based on the countries shipped.

Table 12. Power-cord plug types

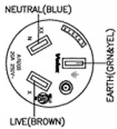
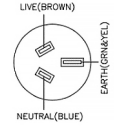
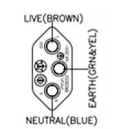
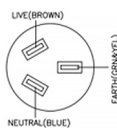
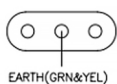
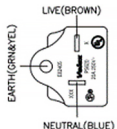
Power-cord style	Plug type	Affected countries
Argentina		Argentina
Australia		• Australia • Christmas Island • Cook Islands • Fiji • Kiribati • Nauru • New Zealand • Papua New Guinea • Pitcairn • Tonga • Tuvalu • Uruguay
Brazil		Brazil
China		China
Italy		• Chile • Holy See • Italy • Uruguay
Japan—250 V		Japan
North America—250 V		• Anguilla • American Samoa • Aruba • Bahamas • Barbados • Belize • Bermuda • British Virgin Islands • Canada • Cayman Islands • Colombia • Costa Rica • Dominican Republic

Table 12. Power-cord plug types (continued)

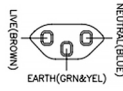
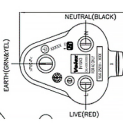
Power-cord style	Plug type	Affected countries
		• Ecuador • El Salvador • Guam • Guatemala • Haiti • Honduras • Jamaica • North Marianas • Marshall Island • Mexico • Nicaragua • Palau • Panama • Philippines • Puerto Rico • Samoa • St. Maarten • Trinidad and Tobago • Turks and Caicos • United States • US Virgin Islands • Venezuela • Vietnam
Switzerland		• Liechtenstein • Switzerland
India		India
UK	Only support jump power cord.	• Antigua and Barbuda • Bahrain • Bangladesh • Botswana • British Indian Ocean Territory • Brunei Darussalam • Curacao • Cyprus • Falkland Islands • Gambia • Gibraltar • Ghana • Grenada • Guyana • Hong Kong • Iraq • Ireland • Jordan • Kenya • Kuwait

Table 12. Power-cord plug types (continued)

Power-cord style	Plug type	Affected countries
		• Lebanon • Macau • Malawi • Malaysia • Malta • Mauritius • Montserrat • Myanmar • Nigeria • Oman • Pakistan • Qatar • Saudi Arabia • Seychelles • Sierra Leone • Singapore • Sri Lanka • St. Kitts and Nevis • St. Lucia • St. Vincent and Grenadines • Tanzania • Uganda • United Arab Emirates • United Kingdom • Vanuatu • Yemen • Zambia and Zimbabwe
Denmark	Only support jump power cord.	Denmark and Greenland

Power supply connector

The following table lists the Power supply connector specifications of your Precision 7960 Rack.

Table 13. Power supply connector

PSU type	PSU connector
800 W Platinum	Golden finger design without cable
1050 W/1100 W Titanium	Golden finger design without cable
1400 W/2400 W Platinum	Golden finger design without cable

GPU—Discrete

The following table lists the specifications of the discrete Graphics Processing Unit (GPU) supported by your Precision 7960 Rack.

Table 14. GPU—Discrete

Controller	Memory size	Memory type
NVIDIA T400 LP/FH	4 GB	GDDR6
NVIDIA T1000 LP/FH	8 GB	GDDR6
NVIDIA RTX A2000	12 GB	GDDR6
NVIDIA RTX A4000	16 GB	GDDR6
NVIDIA RTX A4500	20 GB	GDDR6
NVIDIA RTX A5500	24 GB	GDDR6
NVIDIA RTX A6000	48 GB	GDDR6
AMD Radeon W6400 LP/FH	4 GB	GDDR6
AMD Radeon W6600	8 GB	GDDR6

Video port resolution

The following table lists the video port resolution for your Precision 7960 Rack.

Table 15. Video port resolution

Graphics card	Video ports	Maximum supported resolution
NVIDIA T400 LP/FH	Three mini-DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz  NOTE: Requires two DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
NVIDIA T1000 LP/FH	Four mini-DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz  NOTE: Requires three DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
NVIDIA RTX A2000	Four mini-DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz  NOTE: Requires two DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
NVIDIA RTX A4000	Four DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz  NOTE: Requires two DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
NVIDIA RTX A4500	Four DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz

Table 15. Video port resolution (continued)

Graphics card	Video ports	Maximum supported resolution
		 NOTE: Requires two DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
NVIDIA RTX A5500	Four DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz  NOTE: Requires two DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
NVIDIA RTX A6000	Four DP 1.4 ports	7680 x 4320 @24 bpp at 120 Hz  NOTE: Requires two DP's 1.4a and DSC  NOTE: DisplayPort 1.2 Certified, DisplayPort 1.3 and 1.4 ready
AMD Radeon Pro W6400 LP/FH	Two DP 1.4 ports	7680 x 4320 @60 Hz
AMD Radeon Pro W6600	Four DP 1.4 ports	4096 x 2304 @60 Hz

Hardware security

The following table lists the hardware security of your Precision 7960 Rack.

Table 16. Hardware security

Hardware security
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)
TPM 2.0 Discrete Hardware

Environmental

The following table lists the environmental specifications of your Precision 7960 Rack.

Table 17. Environmental

Feature	Values
Recyclable packaging	Yes
BFR/PVC—free chassis	No
Vertical orientation packaging support	No
Multi-Pack packaging	No
Energy-Efficient Power Supply	Standard
ENV0425 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 7960 Rack.

Table 18. Regulatory compliance

Regulatory compliance
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 7960 Rack.

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

Table 19. Computer environment

Description	Operating	Storage
Temperature range	10°C – 35°C (50°F – 95°F)	-40°C-65°C (-40°F-149°F)
Relative humidity (maximum)	20% to 80% (non-condensing, Max dew point temperature = 26°C)	5% to 95% (non-condensing, Max dew point temperature = 33°C)
Vibration (maximum)*	0.21 G _{rms} at 5 Hz to 500 Hz for 10 minutes (all operation orientations)	1.88 G _{rms} at 10 Hz to 500 Hz for 15 minutes (all six sides tested)
Shock (maximum)	Six consecutively executed shock pulses in the positive and negative x, y, and z axis of 6 G for up to 11 millisecond	Six consecutively executed shock pulses in the positive and negative x, y, and z axis (one pulse on each side of the system) of 71 G for up to 2 millisecond
Altitude range	-15.2 m to 3050 m (-49 ft to 10,006 ft)	-15.2 m to 12,000 m (-49 ft to 39,370 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 20. 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.