

Dell PowerEdge T360

Technical Guide

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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Dell PowerEdge T360 system overview

The PowerEdge T360 system is a single-socket 4.5U tower server that supports:

- One Intel® Xeon® 6300 series processor or one Intel® Xeon® E-2400 series processor with up to eight cores or one Intel® Pentium® processor with two cores
- Four UDIMM slots
- A Cabled AC or two redundant AC or DC power supply units
- Up to 8 x 3.5-inch SAS/SATA HDD/SSD drives
- Up to 4 x 3.5-inch SATA HDD/SSD drives
- Up to 8 x 2.5-inch SAS/SATA HDD/SSD drives with 3.5-inch to 2.5-inch adapter
- Up to 6 x 3.5-inch SAS/SATA HDD/SSD drives + 2 x 2.5-inch direct attached NVMe
- Up to 6 x 2.5-inch SAS/SATA drives with 3.5-inch to 2.5-inch adapter + 2 x 2.5-inch direct attached NVMe

i **NOTE:** All instances of SAS and SATA drives are referred to as drives in this document, unless specified otherwise.

i **NOTE:** The Dell PowerEdge T360 system supports speeds of 12 Gbps for SAS3 and 6 Gbps for SATA. The drive speed is determined by the controller's capability.

△ CAUTION: Do not install GPUs, network cards, or other PCIe devices on your system that are not validated and tested by Dell. Damage caused by unauthorized and invalidated hardware installation will null and void the system warranty.

Topics:

- [New technologies](#)
- [Key workloads](#)

New technologies

Table 1. New technologies

Technology	Detailed Description
Intel® Xeon® 6300 series processor/ Xeon® E-2400 series processor	Core count: Up to eight core processor
	Maximum number of PCIe lanes: Integrated 16 PCIe Gen5 lanes @ 32 GT/s, 4 PCIe Gen4 lanes @ 16 GT/s
	Maximum TDP: 95 W
Intel® Pentium® G7400/ G7400T processor	Core count: Up to two core processor
	Maximum number of PCIe lanes: Integrated 16 PCIe Gen5 lanes @ 32 GT/s, 4 PCIe Gen4 lanes @ 16 GT/s
	Maximum TDP: 46 W
4400 MT/s DDR5 Memory	Max 4 DIMMs
	Supports DDR5 ECC UDIMM
Flex I/O	Onboard LOM board, 2x1Gb with BCM5720 LAN controller
	Rear I/O with: <ul style="list-style-type: none"> • 1 x Dedicated iDRAC Ethernet port

Table 1. New technologies (continued)

Technology		Detailed Description
		<ul style="list-style-type: none"> • 3 x USB 3.2 Gen1 • 3 x USB 2.0 • 1 x VGA port
		Serial Port
		Front I/O with: <ul style="list-style-type: none"> • 1 x USB 3.2 Gen1 • 1x iDRAC Direct (Micro-AB USB) port
CPLD 1-wire		Support payload data of PERC, BP, and Rear I/O to BOSS-N1 and iDRAC.
Dedicated PERC		PERC adapters with PERC11
Software RAID		Operating system RAID/S160
Power Supplies	60 mm dimension PSU	Platinum 600 W AC/VDC
		Titanium 700 W AC/VDC
	106 mm dimension PSU	Platinum 450 W AC

Key workloads

The DellPowerEdgeT360 is versatile enough to address many customer segments and workloads affordably, that includes:

- Collaboration/Sharing: Built-in features to enable collaborative applications between groups of people that share information and processes on-site or remotely
- ROBO Business/Database: Provide computing performance for ROBO business and database workloads including mailing, data process and analysis
- Near Edge: Suitable form-factor for near-edge computing with GPU applications, such as video and audio analysis, surveillance, and VDI

Product comparison

The following table shows the comparison between the PowerEdge T360 with the PowerEdge T350.

Table 2. Features comparison

Features	PowerEdge T360	PowerEdge T350
Processor	Maximum one Intel® Xeon® 6300 series or Xeon® E-2400 series processor with up to eight cores or Intel® Pentium® G7400/ G7400T processor with up to two cores	Maximum one Intel® Xeon® E-2300 series processor with up to eight cores, or Intel® Pentium® processors with up to two cores
Memory	DIMM Speed <ul style="list-style-type: none"> Up to 4400 MT/s Memory Type <ul style="list-style-type: none"> UDIMM Memory module slots <ul style="list-style-type: none"> Four DDR5 DIMM slots Supports unregistered ECC DDR5 DIMM slots only. Maximum RAM <ul style="list-style-type: none"> UDIMM 128 GB 	DIMM Speed <ul style="list-style-type: none"> Up to 3200 MT/s Memory Type <ul style="list-style-type: none"> UDIMM Memory module slots <ul style="list-style-type: none"> Four DDR4 DIMM slots Supports unregistered ECC DDR4 DIMM slots only. Maximum RAM <ul style="list-style-type: none"> UDIMM 128 GB
Storage Controllers	<ul style="list-style-type: none"> Internal controllers: PERC H355 Adapter, PERC H755 Adapter, HBA355i Adapter Internal Boot: Boot Optimized Storage Subsystem (BOSS-N1): HWRAID 2 x M.2 NVMe SSDs drives, or USB External HBA (non-RAID): HBA355e Adapter Software RAID: S160 	<ul style="list-style-type: none"> Internal controllers: PERC H345, PERC H355, HBA355i, PERC H755 Internal Boot: Boot Optimized Storage Subsystem (BOSS-S2): HWRAID 2 x M.2 SSDs External HBA (non-RAID): HBA355e Software RAID: S150
Drive Bays	Front bays: <ul style="list-style-type: none"> Up to 4 x 3.5-inch SATA HDD/SSD, max 64 TB Up to 8 x 3.5-inch SAS/SATA HDD/SSD, max 128 TB Up to 8 x 2.5-inch SAS/SATA HDD/SSD with adapter, max 61.44 TB Up to 6 x 3.5-inch SAS/SATA HDD/SSD drives + 2 x 2.5-inch direct attached NVMe, max 111.36 TB Up to 6 x 2.5-inch SAS/SATA drives with 3.5-inch to 2.5-inch adapter + 2 x 2.5-inch direct attached NVMe, max 111.36 TB <p>NOTE: Supports a 2.5-inch drive in 3.5-inch hybrid drive carrier.</p>	Front bays: <ul style="list-style-type: none"> Up to 8 x 3.5-inch SAS/SATA (HDD/SSD) Maximum capacity 160 TB on 8 HDD configuration <p>NOTE: Supports a 2.5-inch drive in 3.5-inch hybrid drive carrier.</p>
Power Supplies	<ul style="list-style-type: none"> 450 W AC Platinum 100-240 V AC. Cabled. 600 W Platinum 100-240 V AC or 600 W 240 HVDC, hot swap redundant. 700 W Titanium 200-240 V AC or 700 W 240 HVDC, hot swap redundant. 	<ul style="list-style-type: none"> 450 W AC only Bronze 100-240 V AC. Cabled. 600 W Mixed Mode Platinum 100-240 V AC or 240 V DC. Hot swap redundant. 700 W Mixed Mode Titanium 200-240 V AC or 240 V DC. Hot swap redundant.
Cooling Options	Air cooling	Air Cooling
Fans	Standard (STD) fan and one optional High performance (HPR) fan or Standard (STD) fan	Standard (STD) fans /High performance (HPR) silver fans

Table 2. Features comparison (continued)

Features	PowerEdge T360	PowerEdge T350				
	Up to two cabled fans	Up to one cabled fan				
Dimension	Height: 382.5 mm (15.05 inches) (with feet)	Height: 382.5 mm (15.05 inches) (with feet)				
	369.5 mm (14.54 inches) (without feet)	369.5 mm (14.54 inches) (without feet)				
	Width—175.0 mm (6.88 inches)	Width—175.0 mm (6.88 inches)				
	Depth—579.72 mm (22.82 inches) (with bezel)	Depth—579.72 mm (22.82 inches) (with bezel)				
	562.12 mm (22.13 inches) (without bezel)	562.12 mm (22.13 inches) (without bezel)				
Form Factor	4.5U tower server	4.5U tower server				
Embedded Management	<ul style="list-style-type: none"> • iDRAC9 Enterprise • iDRAC Direct • Datacenter license options • iDRAC RESTful API with Redfish • iDRAC Service Module 	<ul style="list-style-type: none"> • iDRAC9 • iDRAC Direct • iDRAC RESTful API with Redfish • iDRAC Service Module 				
Bezel	Security bezel and optional filter bezel	Optional LCD bezel or security bezel				
OpenManage Software	<ul style="list-style-type: none"> • OpenManage Enterprise • OpenManage Power Manager plugin • OpenManage Service plugin • OpenManage Update Manager plugin • CloudIQ for PowerEdge plug in • OpenManage Enterprise Integration for VMware vCenter • OpenManage Integration for Microsoft System Center • OpenManage Integration with Windows Admin Center 	<ul style="list-style-type: none"> • OpenManage Enterprise • OpenManage Power Manager plug-in • OpenManage SupportAssist plug-in • OpenManage Update Manager plug-in 				
Mobility	OpenManage Mobile	OpenManage Mobile				
Integrations and Connections	<ul style="list-style-type: none"> • BMC Truesight • Microsoft System Center • OpenManage Integration with ServiceNow • Red Hat Ansible Modules • Terraform Providers • VMware vCenter and vRealize Operations Manager 	<table border="1"> <tr> <td>OpenManage Integrations</td> <td>OpenManage Connections</td> </tr> <tr> <td> <ul style="list-style-type: none"> • BMC Truesight • Microsoft System Center • Red Hat Ansible Modules • VMware vCenter and vRealize Operations Manager </td> <td> <ul style="list-style-type: none"> • IBM Tivoli Netcool/OMNIBus • IBM Tivoli Network Manager IP Edition • Micro Focus Operations Manager • Nagios Core • Nagios XI </td> </tr> </table>	OpenManage Integrations	OpenManage Connections	<ul style="list-style-type: none"> • BMC Truesight • Microsoft System Center • Red Hat Ansible Modules • VMware vCenter and vRealize Operations Manager 	<ul style="list-style-type: none"> • IBM Tivoli Netcool/OMNIBus • IBM Tivoli Network Manager IP Edition • Micro Focus Operations Manager • Nagios Core • Nagios XI
OpenManage Integrations	OpenManage Connections					
<ul style="list-style-type: none"> • BMC Truesight • Microsoft System Center • Red Hat Ansible Modules • VMware vCenter and vRealize Operations Manager 	<ul style="list-style-type: none"> • IBM Tivoli Netcool/OMNIBus • IBM Tivoli Network Manager IP Edition • Micro Focus Operations Manager • Nagios Core • Nagios XI 					
Security	<ul style="list-style-type: none"> • Cryptographically signed firmware • Data at Rest Encryption (SEDs with local or external key mgmt) • Secure Boot • Secured Component Verification (Hardware integrity check) • Secure Erase • Secured-core server • Silicon Root of Trust • System Lockdown (requires iDRAC9 Enterprise or Datacenter) 	<ul style="list-style-type: none"> • Cryptographically signed firmware • Secure Boot • Secure Erase • Silicon Root of Trust • System Lockdown (requires iDRAC9 Enterprise or Datacenter) • TPM 1.2/2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ 				

Table 2. Features comparison (continued)

Features	PowerEdge T360	PowerEdge T350
	<ul style="list-style-type: none"> TPM 2.0 FIPS, CC-TCG certified, TPM 2.0 China NationZ 	
Embedded NIC	2 x 1 GbE LOM	2 x 1 GbE LOM
Networking Options	Optional Network Card	Optional Network Card
GPU Options	Up to one single-width 60 W accelerator	Not supported
Ports	Front Ports <ul style="list-style-type: none"> 1 x USB 3.2 Gen1 1 x iDRAC Direct (Micro-AB USB) port 	Rear Ports <ul style="list-style-type: none"> 3 x USB 2.0 3 x USB 3.2 Gen1 1 x Serial port 1 x Dedicated iDRAC Ethernet port 2 x Ethernet port 1 x VGA port
	Internal Port : <ul style="list-style-type: none"> 1 x USB 3.2 Gen1 	Internal Port : <ul style="list-style-type: none"> 1 x USB 3.0 (Optional)
PCIe	Slot 1: x8 Gen4 Full height, half length	Slot 1: x8 Gen4 Full height, half length
	Slot 2: x16 Gen5 Full height, half length	Slot 2: x16 Gen4 Full height, full length
	Slot 3: x1 Gen4 Full height, half length	Slot 3: x1 Gen3 Full height, half length
	Slot 4: x8 Gen4 Full height, half length	Slot 4: x8 Gen3 Full height, half length
Operating System and Hypervisors	<ul style="list-style-type: none"> Canonical Ubuntu Server LTS Microsoft Windows Server with Hyper-V Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi For specifications and interoperability details, see OS support .	<ul style="list-style-type: none"> Canonical Ubuntu Server LTS VMware ESXi Microsoft Windows Server with Hyper-V SUSE Linux Enterprise Server Red Hat Enterprise Linux For specifications and interoperability details, see Dell EMC Enterprise Operating Systems on Servers, Storage, and Networking page at Dell.com/OSsupport .

NOTE: HVDC stands for High-Voltage DC, with 336 V DC.

Chassis views and features

Topics:

- Chassis views

Chassis views

Front view of the system

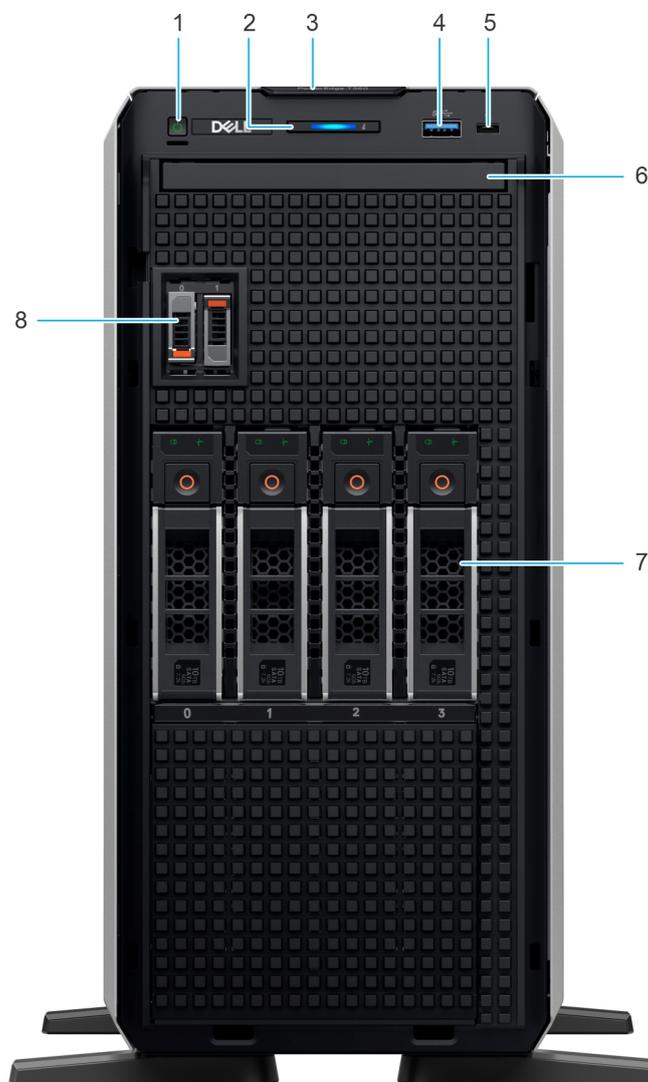


Figure 1. Front view of the 4 x 3.5-inch drive system

Table 3. Features on the front of the system

Item	Ports, panels, and slots	Icon	Description
1	Power button		Indicates if the system is powered on or off. Press the power button to manually power on or off the system.
2	Status LED indicators		Indicates the status of the system. For more information, see the Status LED indicators section.
3	Express Service Tag	N/A	A slide-out label panel that contains the Express Service Tag that has system information such as Service Tag, NIC, MAC address, and so on. If you have opted for the secure default access to iDRAC, the Information tag will also contain the iDRAC secure default password.
4	USB 3.2 port		Supports USB 3.2 compliant devices
5	iDRAC Direct (Micro-AB USB) port		The iDRAC Direct (Micro-AB USB) port enables you to access the iDRAC direct Micro-AB USB features. For more information, see the Integrated Dell Remote Access Controller User's Guide at PowerEdge Manuals .
6	Optical drive	N/A	Enables you to retrieve and store data on optical discs such as compact discs (CD) and digital versatile discs (DVD). For more information, see the Technical specifications section.
7	Drive Bay	N/A	Enables you to install SAS/SATA drives that are supported on your system.
8	BOSS-N1 (optional)	N/A	BOSS-N1 (optional) for internal system boot.

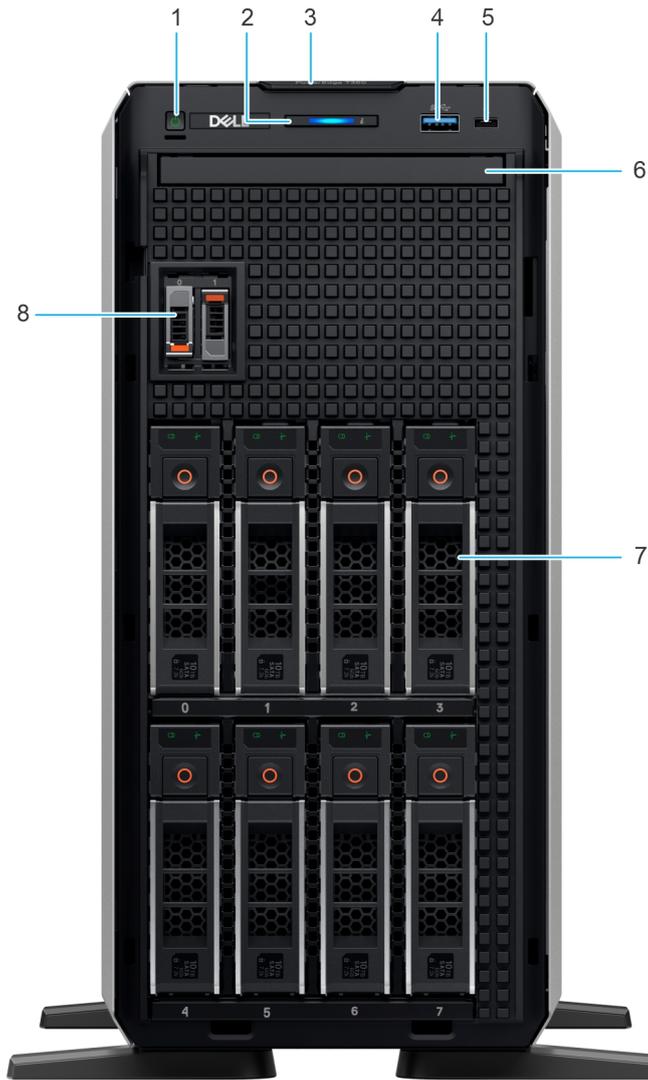


Figure 2. Front view of 8 x 3.5-inch or 6 x 3.5-inch SAS/SATA HDD/SSD drives + 2 x 2.5-inch direct attached NVMe or 6 x 2.5-inch SAS/SATA drives with 3.5-inch to 2.5-inch adapter + 2 x 2.5-inch direct attached NVMe drive system

Table 4. Features on the front of the system

Item	Ports, panels, and slots	Icon	Description
1	Power button		Indicates if the system is powered on or off. Press the power button to manually power on or off the system.
2	Status LED indicators		Indicates the status of the system. For more information, see the Status LED indicators section.
3	Express Service Tag	N/A	A slide-out label panel that contains the Express Service Tag that has system information such as Service Tag, NIC, MAC address, and so on. If you have opted for the secure default access to

Table 4. Features on the front of the system (continued)

Item	Ports, panels, and slots	Icon	Description
			iDRAC, the Information tag will also contain the iDRAC secure default password.
4	USB 3.2 port		Supports USB 3.2 compliant devices
5	iDRAC Direct (Micro-AB USB) port		The iDRAC Direct (Micro-AB USB) port enables you to access the iDRAC direct Micro-AB USB features. For more information, see the Integrated Dell Remote Access Controller User's Guide at PowerEdge Manuals .
6	Optical drive	N/A	Enables you to retrieve and store data on optical discs such as compact discs (CD) and digital versatile discs (DVD). For more information, see the Technical specifications section.
7	Drive Bay	N/A	Enables you to install SAS/SATA drives that are supported on your system.
8	BOSS-N1 (optional)	N/A	BOSS-N1 (optional) for internal system boot.

Rear view of the system

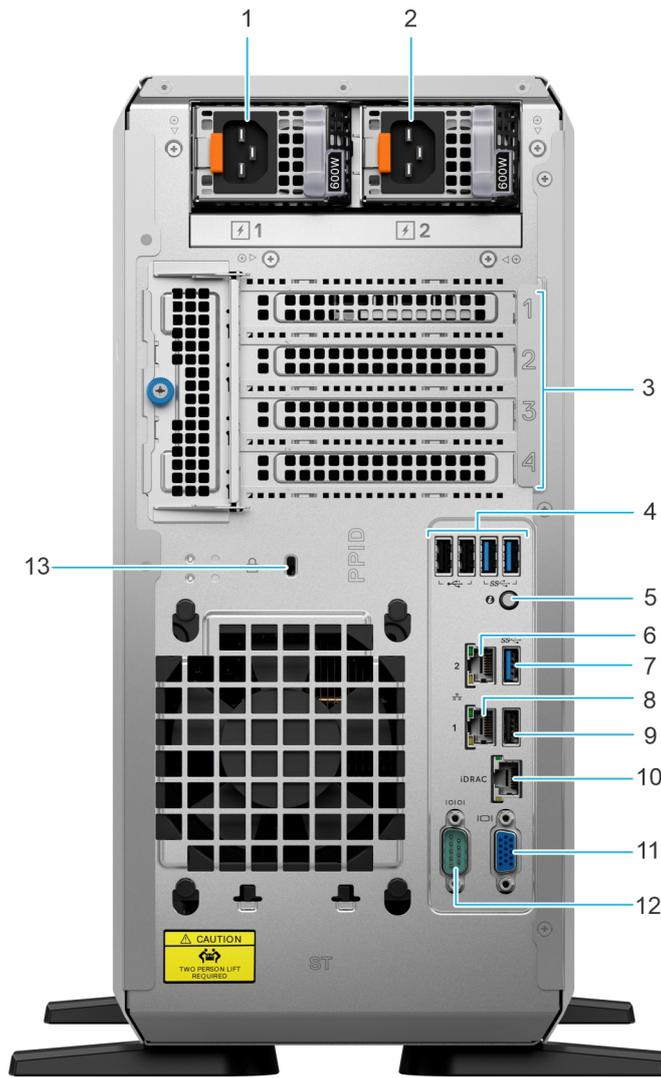


Figure 3. Rear view of the system

Table 5. Features available at the rear of the system

Item	Ports, panels, or slots	Icon	Description
1	Power supply unit (PSU 1)		PSU1 is the primary PSU of the system.
2	Power supply unit (PSU 2)		PSU2 is the secondary PSU of the system.
3	PCIe expansion card slots (4)	N/A	Enables you to connect PCI express expansion cards.
4	2 x USB 2.0 + 2 x USB 3.2 ports		Supports USB 2.0 and USB 3.2 compliant devices.
5	System Identification (ID) button		The System Identification (ID) button is available at the rear of the system. Press the button to identify a system by turning on the system ID button. You can also use the

Table 5. Features available at the rear of the system (continued)

Item	Ports, panels, or slots	Icon	Description
			system ID button to reset iDRAC and to access BIOS using the step-through mode. When pressed, the system ID LED in the back panel blinks until either the front or rear button is pressed again. Press the button to toggle between on or off mode.
6	NIC port (2)		The NIC ports that are integrated on the LOM card provide network connectivity which is connected to the system board.
7	USB 3.2 port		Supports USB 3.2 compliant devices.
8	NIC port (1)		The NIC ports that are integrated on the LOM card provide network connectivity which is connected to the system board.
9	USB 2.0 port		Supports USB 2.0 compliant devices.
10	Dedicated iDRAC Ethernet port	iDRAC	Enables you to remotely access iDRAC. For more information, see the Integrated Dell Remote Access Controller User's Guide at PowerEdge Manuals .
11	VGA port		Enables you to connect a display device to the system.
12	Serial port		Enables you to connect a serial device to the system.
13	Kensington lock slot	N/A	Enables you to connect security cable to prevent unauthorized movement of your system.

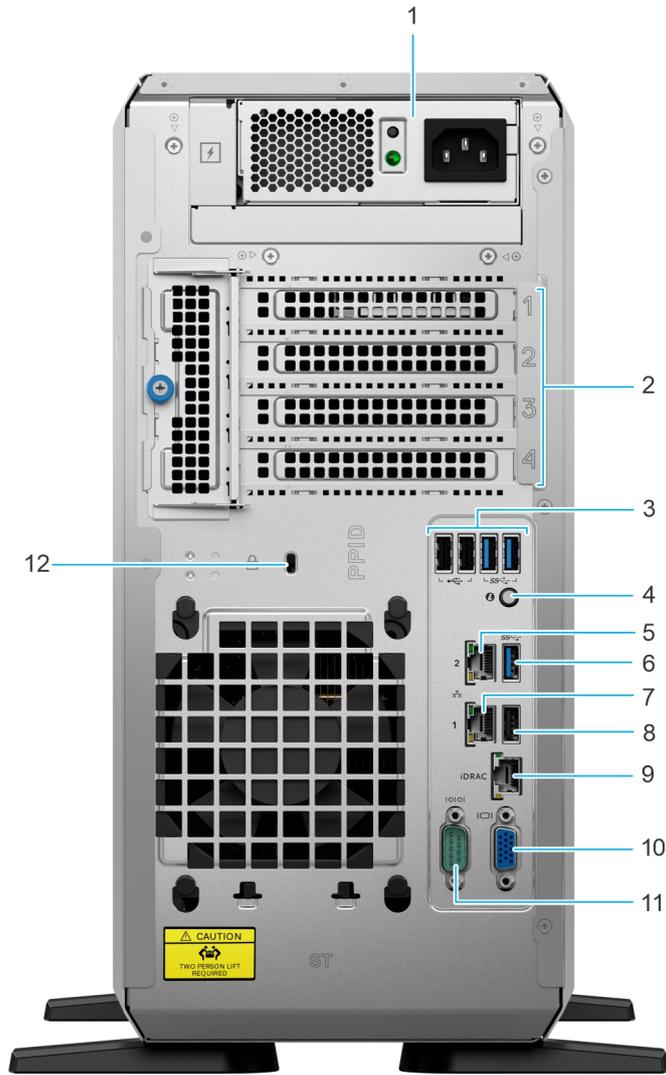


Figure 4. Rear view of the system with cable PSU

Table 6. Rear view of the system

Item	Ports, panels, or slots	Icon	Description
1	Cabled power supply unit		Enables you to connect to AC power source.
2	PCIe expansion card slots (4)	N/A	Enables you to connect PCI express expansion cards.
3	2 x USB 2.0 + 2 x USB 3.2 ports		Supports USB 2.0 and USB 3.2 compliant devices.
4	System Identification (ID) button		The System Identification (ID) button is available at the rear of the system. Press the button to identify a system by turning on the system ID button. You can also use the system ID button to reset iDRAC and to access BIOS using the step-through mode. When pressed, the system ID LED in the back panel blinks until either the front or rear

Table 6. Rear view of the system (continued)

Item	Ports, panels, or slots	Icon	Description
			button is pressed again. Press the button to toggle between on or off mode.
5	NIC port (2)		The NIC ports that are integrated on the LOM card provide network connectivity which is connected to the system board.
6	USB 3.2 port		Supports USB 3.2 compliant devices.
7	NIC port (1)		The NIC ports that are integrated on the LOM card provide network connectivity which is connected to the system board.
8	USB 2.0 port		Supports USB 2.0 compliant devices.
9	Dedicated iDRAC Ethernet port	iDRAC	Enables you to remotely access iDRAC. For more information, see the Integrated Dell Remote Access Controller User's Guide at PowerEdge Manuals .
10	VGA port		Enables you to connect a display device to the system.
11	Serial port		Enables you to connect a serial device to the system.
12	Kensington lock slot	N/A	Enables you to connect security cable to prevent unauthorized movement of your system.

Inside the system

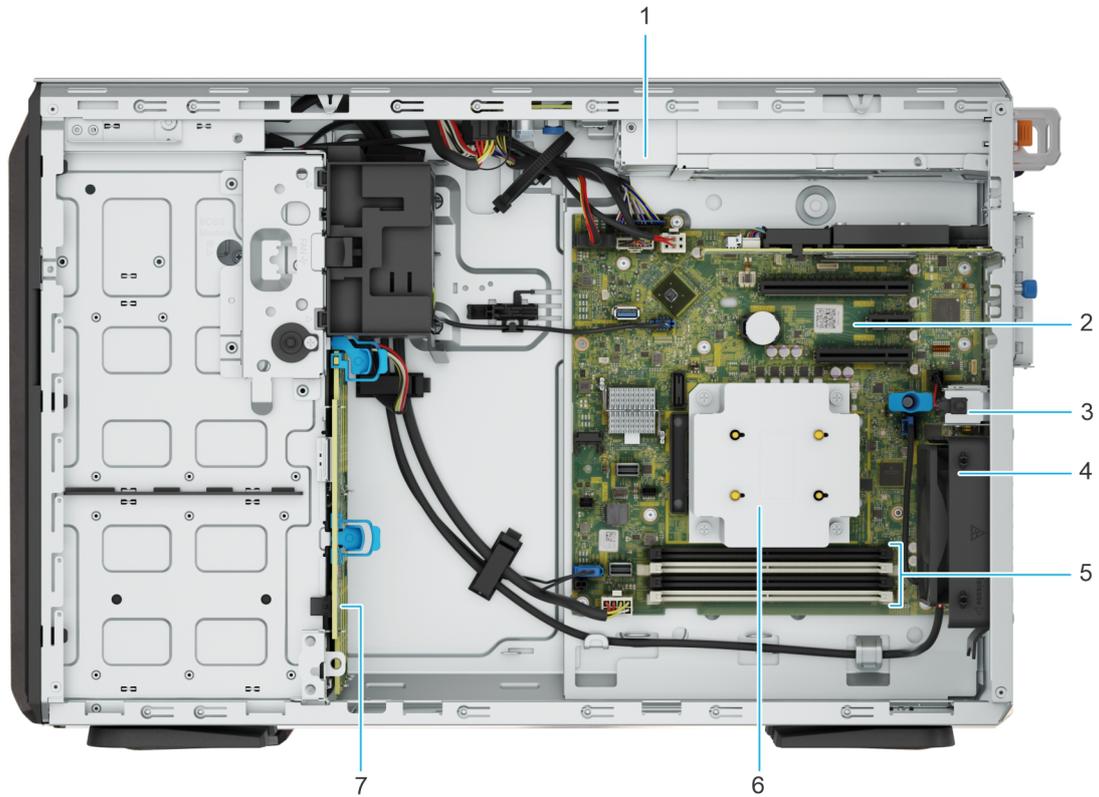


Figure 5. Inside view of the 8 x 3.5-inch configuration

- | | |
|--------------------------|-----------------|
| 1. PSU | 2. System board |
| 3. Intrusion switch | 4. Cooling fan |
| 5. Memory module sockets | 6. Heat sink |
| 7. Backplane | |

Processor

Topics:

- [Processor features](#)

Processor features

The following lists the features and functions that are in the upcoming Intel® Xeon® 6300 series processor offering:

- For small businesses, the Xeon® 6300 series provides a reliable solution with business-ready servers to support business-critical services and customer data needs.
- For cloud service, the Xeon® 6300 series is the perfect option for Bare Metal Instances & Code/Data Security, with a cost-effective solution for essential performance to support entry-level bare metal services.

Key updates for the 6300 series include increased performance with a new processor core architecture:

- 4, 6, and 8 core option
- Up to 95 W TDP
- Up to 128 GB memory
- DDR5 up to 4800 MT/s

Supported processors

The following table shows the processors that are supported on the T360.

Table 7. Supported processors for T360

Processor	Clock Speed (GHz)	Cache (M)	Cores	Threads	Turbo	Memory Speed (MT/s)	Memory Capacity	TDP
6369P	3.3	24	8	16	Turbo	4800	128 GB	95 W
6357P	3.0	24	8	16	Turbo	4800	128 GB	80 W
6353P	2.7	24	8	16	Turbo	4800	128 GB	65 W
6349P	3.6	18	6	12	Turbo	4800	128 GB	95 W
6337P	3.5	18	6	12	Turbo	4800	128 GB	80 W
6333P	3.1	18	6	12	Turbo	4800	128 GB	65 W
6325P	3.5	12	4	8	Turbo	4800	128 GB	55 W
6315P	2.8	12	4	4	Turbo	4800	128 GB	55 W
E-2488	3.2	24	8	16	Turbo	4800	128 GB	95 W
E-2486	3.5	18	6	12	Turbo	4800	128 GB	95 W
E-2478	2.8	24	8	16	Turbo	4800	128 GB	80 W
E-2468	2.6	24	8	16	Turbo	4800	128 GB	65 W
E-2456	3.3	18	6	12	Turbo	4800	128 GB	80 W
E-2436	2.9	18	6	12	Turbo	4800	128 GB	65 W

Table 7. Supported processors for T360 (continued)

Processor	Clock Speed (GHz)	Cache (M)	Cores	Threads	Turbo	Memory Speed (MT/s)	Memory Capacity	TDP
E-2434	3.4	12	4	8	Turbo	4800	128 GB	55 W
E-2414	2.6	12	4	4	Turbo	4800	128 GB	55 W
G7400	3.7	6	2	4	No Turbo	4800	128 GB	46 W
G7400T	3.1	6	2	4	No Turbo	4800	128 GB	35 W

NOTE: Intel Xeon® 6300 series CPUs do not support Windows Server 2019.

NOTE: For information on supported operating systems for new CPUs, please see the links to specific OS versions and editions, certification matrices, Hardware Compatibility Lists (HCL) portal, and Hypervisor support are available at [Dell Enterprise Operating Systems](#).

Memory subsystem

Topics:

- Supported memory

Supported memory

Table 8. Memory technology

DIMM type	Rank	Capacity	DIMM rated voltage and speed	Operating Speed	
				1 DIMM per channel (DPC)	2 DIMM per channel (DPC)
ECC UDIMM	1 R	16 GB	DDR5 (1.1 V), 4800 MT/s	4400 MT/s	4000 MT/s
	2 R	32 GB	DDR5 (1.1 V), 4800 MT/s	4400 MT/s	3600 MT/s
	1 R	16 GB	DDR5 (1.1 V), 5600 MT/s	4400 MT/s	4000 MT/s
	2 R	32 GB	DDR5 (1.1 V), 5600 MT/s	4400 MT/s	3600 MT/s

Table 9. Supported DIMMs

Rated DIMM Speed (MT/s)	DIMM Type	DIMM Capacity (GB)	Ranks per DIMM	Data Width	DIMM Volts
4800	UDIMM	16	1	8	1.1
4800	UDIMM	32	2	8	1.1
5600	UDIMM	16	1	8	1.1
5600	UDIMM	32	2	8	1.1

Storage

Topics:

- [Storage controllers](#)
- [Supported Drives](#)
- [Internal storage configuration](#)
- [External Storage](#)

Storage controllers

NOTE: The size of the RAID 1 drives must be less than that of the second RAID container.

- PowerEdge Hardware RAID controllers (PERC) series 11 is designed for:
 - Enhanced performance
 - Fault tolerance
 - Simplified management of RAID array drives
- PowerEdge controller series 11 supports older legacy SAS and SATA drive interfaces.
- Dell S160 is a software RAID solution for PowerEdge systems.

Table 10. PERC Series controller offerings

Performance Level	Controller and Description
Entry	S160 (Software RAID: SATA)
Value	H355, HBA355 (internal/external)
Performance	H755

NOTE: For more information about the features of the Dell PowerEdge RAID controllers (PERC), Software RAID controllers, or BOSS cards, and on deploying the cards, see the storage controller documentation at [Storage controller manuals](#).

NOTE: H355 replaces H345 as the entry raid controller.

Supported Drives

Table 11. Supported Drives

Form Factor	Type	Speed	Rotational Speed	Capacities
2.5 inches	vSAS	12 Gb	SSD	960 Gb, 1.92 TB, 3.84 TB, 7.68 TB
	SAS	24 Gb	SSD	800 Gb, 960 GB, 1.6 TB, 1.92 TB, 3.84 TB, 7.68 TB
	SATA	6 Gb	SSD	480 Gb, 960 Gb, 1.92 TB, 3.84 TB
	NVMe	Gen4	SSD	800 GB, 960 GB, 1.6 TB, 1.92 TB, 3.2 TB, 3.84 TB, 7.68 TB
3.5 inches	SAS	12 Gb	7.2 K	4 TB, 8 TB, 12 TB, 16 TB
	SATA	6 Gb	7.2 K	2 TB, 4 TB, 8 TB, 12 TB, 16 TB

NOTE: For information on supported operating systems for NVMe features, please see the links to specific OS versions and editions, certification matrices, Hardware Compatibility Lists (HCL) portal, and Hypervisor support are available at [Dell Enterprise Operating Systems](#).

Internal storage configuration

T360 supports the following internal storage configurations:

- 8 x 3.5-inch (8 x 2.5-inch with HDD adapter) (SAS/SATA) RAID
- 4 x 3.5-inch (SATA)
- 6 x 3.5-inch (6 x 2.5-inch with HDD adapter) (SAS/SATA/NVMe)

External Storage

The T360 supports the external storage device types listed in the table below.

Table 12. Support External Storage Devices

Device Type	Description
External Tape	Supports connection to external USB tape products
NAS/IDM appliance software	Supports NAS software stack
JBOD	Supports connection to 12 Gb MD-series JBODs

Networking

Topics:

- [Overview](#)
- [Supported network cards](#)

Overview

PowerEdge offers a wide variety of options to get information moving to and from our servers. Industry best technologies are chosen, and systems management features are added by our partners to firmware to tie in with iDRAC. These adapters are rigorously validated for worry-free, fully supported use in Dell servers.

Supported network cards

Table 13. Supported network cards

Vendor	Port type	Port speed	Port count
Broadcom	F1	1 GbE	4
Intel	BT	10 GbE	2
Intel	BT	10 GbE	4
Broadcom	BT	10 GbE	2
Broadcom	BT	10 GbE	4
Intel	F1	1 GbE	4

PCIe subsystem

Topics:

- PCIe risers

PCIe risers

The T360 has a no riser option. Shown below are the riser offerings for the platform.

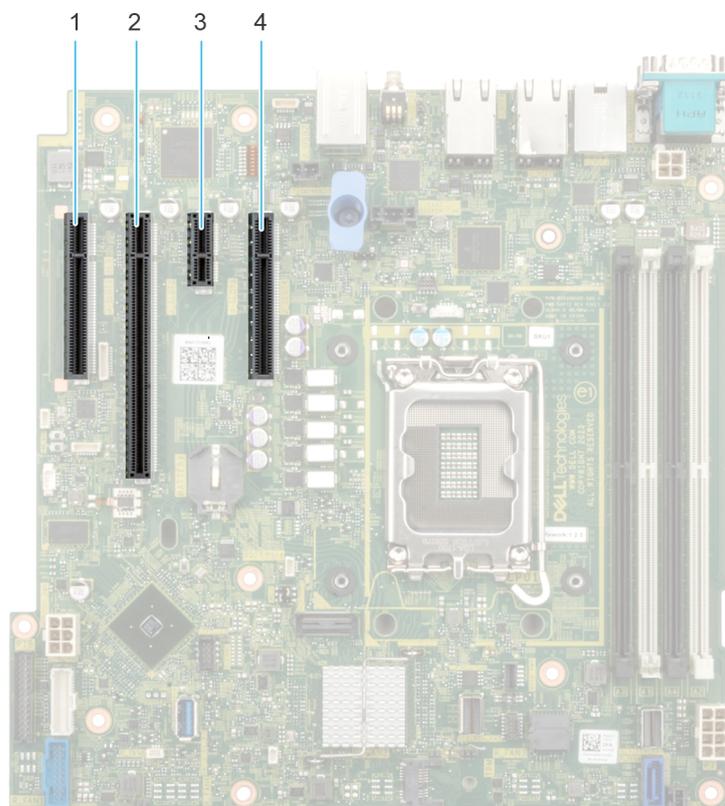


Figure 6. Riser connector slots on system board

1. PCIe Slot 1 (CPU 1)
2. PCIe Slot 2 (CPU 1)
3. PCIe Slot 3 (Platform Controller Hub)
4. PCIe Slot 4 (Platform Controller Hub)

Table 14. PCIe Riser Configurations

Config No.	Riser configuration	No. of Processors	PERC type supported	Rear storage possible
0	N/A	1	Adapter	No

NOTE: The expansion-card slots are not hot-swappable.

The following table provides guidelines for installing expansion cards to ensure proper cooling and mechanical fit. The expansion cards with the highest priority should be installed first using the slot priority indicated. All the other expansion cards should be installed in the card priority and slot priority order.

Table 15. Configuration : No Riser

Card type	Slot priority	Maximum number of cards
FOXCONN (GPU)	2	1
FOXCONN (aPERC 11)	2,1	1
FOXCONN (aPERC HBA11)	2,1	1
FOXCONN (External Adapter)	2,1	2
Broadcom (NIC:1Gb)	2,1,4	3
Intel (NIC:10Gb)	2,1,4	3
Broadcom (NIC:10Gb)	2,1,4	3
Intel (NIC:1Gb)	2,1,4	3
FOXCONN (BOSS-N1)	INT	1

Power, thermal, and acoustics

PowerEdge servers have an extensive collection of sensors that automatically track thermal activity, which helps to regulate temperature by reducing server noise and power consumption. The table below lists the tools and technologies Dell offers to lower power consumption and increase energy efficiency.

Topics:

- [Power](#)
- [Thermal](#)
- [Acoustics](#)

Power

Table 16. Power tools and technologies

Feature	Description
Power Supply Units(PSU) portfolio	Dell's PSU portfolio includes intelligent features such as dynamically optimizing efficiency while maintaining availability and redundancy. Find additional information in the Power supply units section.
Tools for right sizing	Enterprise Infrastructure Planning Tool (EIPT) is a tool that can help you determine the most efficient configuration possible. With Dell's EIPT, you can calculate the power consumption of your hardware, power infrastructure, and storage at a given workload. Learn more at Dell EIPT .
Industry Compliance	Dell's servers are compliant with all relevant industry certifications and guide lines, including 80 PLUS, Climate Savers and ENERGY STAR.
Power monitoring accuracy	PSU power monitoring improvements include: <ul style="list-style-type: none"> • Dell's power monitoring accuracy is currently 1%, whereas the industry standard is 5% • More accurate reporting of power • Better performance under a power cap
Power capping	Use Dell's systems management to set the power cap limit for your systems to limit the output of a PSU and reduce system power consumption. Dell is the first hardware vendor to leverage Intel Node Manager for circuit-breaker fast capping.
Systems Management	iDRAC Enterprise and Datacenter provides server-level management that monitors, reports and controls power consumption at the processor, memory and system level. Dell OpenManage Power Center delivers group power management at the rack, row, and data center level for servers, power distribution units, and uninterruptible power supplies.
Active power management	Intel Node Manager is an embedded technology that provides individual server-level power reporting and power limiting functionality. Dell offers a complete power management solution comprised of Intel Node Manager accessed through Dell iDRAC9 Datacenter and OpenManage Power Center that allows policy-based management of power and thermal at the individual server, rack, and data center level. Hot spare reduces power consumption of redundant power supplies. Thermal control off a speed optimizes the thermal settings for your environment to reduce fan consumption and lower system power consumption. Idle power enables Dell servers to run as efficiently when idle as when at full workload.
Rack infrastructure	Dell offers some of the industry's highest-efficiency power infrastructure solutions, including:

Table 16. Power tools and technologies (continued)

Feature	Description
	<ul style="list-style-type: none"> Power distribution units (PDUs) Uninterruptible power supplies (UPSs) Energy Smart containment rack enclosures Find additional information at: Power and Cooling .

PSU specifications

The PowerEdge T360 system supports up to two AC or DC power supply units (PSUs).

Table 17. PSU specifications

PSU	Class	Heat dissipation (maximum)	Frequency	AC Voltage			DC Voltage		Current
				100–120 V	200–240 V	277 V	240 V	336 V	
450 W	Platinum	1730 BTU/hr	50/60 Hz	450 W	450 W	N/A	N/A	N/A	6.5 A - 3.5 A
600 W Mixed Mode	Platinum	2250 BTU/hr	50/60 Hz	600 W	600 W	N/A	N/A	N/A	7.1 A - 3.6 A
	N/A	2250 BTU/hr	N/A	N/A	N/A	N/A	600 W	N/A	2.9 A
700 W Mixed Mode	Titanium	2625 BTU/hr	50/60 Hz	N/A	700 W	N/A	N/A	N/A	4.1 A
	N/A	2625 BTU/hr	N/A	N/A	N/A	N/A	700 W	N/A	3.4 A

NOTE: This system is also designed to connect to the IT power systems with a phase-to-phase voltage not exceeding 240 V.

NOTE: Heat dissipation is calculated using the PSU wattage rating.

NOTE: When selecting or upgrading the system configuration, to ensure optimum power utilization, verify the system power consumption with the Dell Energy Smart Solution Advisor available at Dell.com/ESSA.

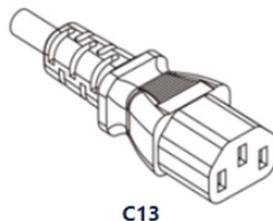


Figure 7. PSU power cord

Table 18. PSU power cords

Form factor	Output	Power cord
Cable PSU 106 mm	450 W AC	C13/C14
Redundant 60 mm	600 W AC	C13/C14
	700 W AC	C13/C14

Thermal

PowerEdge servers have an extensive collection of sensors that automatically track thermal activity, which helps regulate temperature thereby reducing server noise and power consumption.

Thermal design

Thermal management of the platform helps deliver high performance with the right amount of cooling to components, while maintaining the lowest fan speeds possible. This is done across a wide range of ambient temperatures from 10°C to 35°C (50°F to 95°F) and to extended ambient temperature ranges.

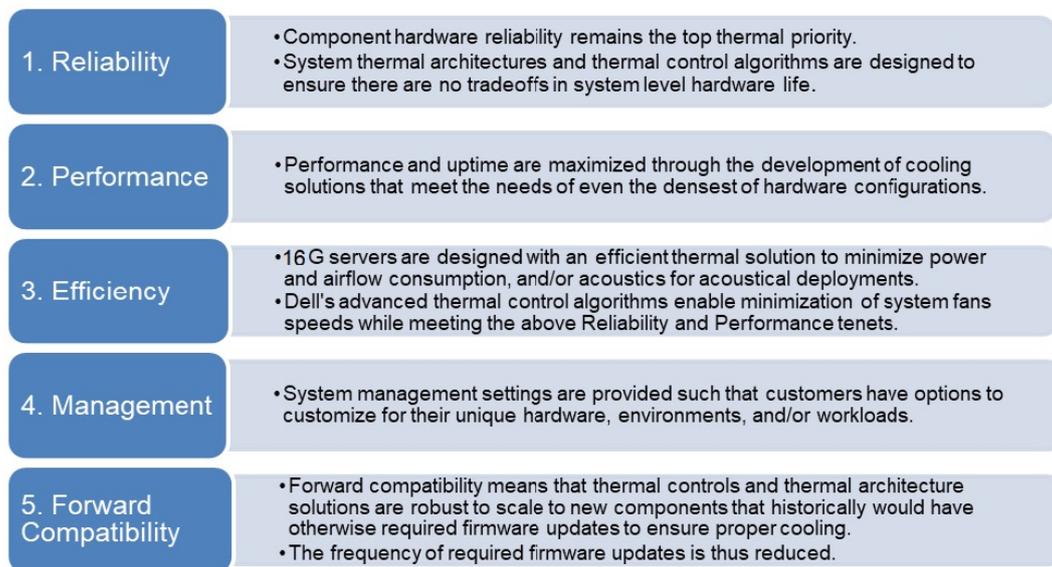


Figure 8. Thermal design characteristics

The thermal design of the PowerEdge T360 reflects the following:

- Optimized thermal design: The system layout is architected for optimum thermal design.
- System component placement and layout are designed to provide maximum airflow coverage to critical components with minimum expense of fan power.
- Comprehensive thermal management: The thermal control system regulates the fan speed based on several different responses from all system-component temperature sensors, and inventory for system configurations. Temperature monitoring includes components such as processors, DIMMs, chipset, the inlet air ambient, hard disk drives, and OCP.
- Open and closed loop thermal fan speed control: Open loop thermal control uses system configuration to determine fan speed based on inlet air ambient temperature. Closed loop thermal control method uses feedback temperatures to dynamically determine proper fan speeds.
- User-configurable settings: With the understanding and realization that every customer has a unique set of circumstances or expectations from the system, in this generation of servers, we have introduced limited user-configurable settings residing in the iDRAC BIOS setup screen. For more information, see the Dell PowerEdge T360 Installation and Service Manual at [PowerEdge Manuals](#) and “Advanced Thermal Control: Optimizing across Environments and Power Goals” on Dell.com.
- Environmental Specifications: The optimized thermal management makes the T360 reliable under a wide range of operating environments.

Acoustics

Acoustical configurations of T360

Dell PowerEdge T360 is a tower server appropriate for typical office environments. However, when a GPU, or 10 GB NIC is installed, to keep these components' performance, higher fan speeds are required and hence high acoustics, which is not suitable for office environment. When BOSS is installed, the noise level is noticeable louder, but still suitable for an office environment.

Table 19. Configurations tested for acoustical experience

Configuration	Quietest Config	Entry	Volume	Volume Plus	Feature Rich with GPU	Feature Rich Max. Storage
Processor	Xeon E-2400/ Xeon 6300 series, 65 W	Xeon E-2400/ Xeon 6300 series, 65 W	Xeon E-2400/ Xeon 6300 series, 65 W	Xeon E-2400/Xeon 6300 series, 65 W	Xeon E-2400/ Xeon 6300 series, 95 W	Xeon E-2400/ Xeon 6300 series, 95 W
Processor Quantity	1	1	1	1	1	1
Memory	16 GB UDIMM	16 GB UDIMM	16 GB UDIMM	16 GB UDIMM	32 GB UDIMM	32 GB UDIMM
Memory Quantity	1	1	2	2	4	4
Storage	3.5" SATA 2-TB HDD	3.5" SATA 2-TB HDD	3.5" SATA 2-TB HDDs	3.5" SATA 2-TB HDDs	3.5" SATA 2-TB HDDs	2.5" SAS 600 GB
Storage Quantity	1	1	2	2	4	8
Backplane	4x 3.5" hot swap	4x 3.5" hot swap	8x 3.5" hot swap	8x 3.5" hot swap	8x 3.5" hot swap	8x 3.5" hot swap
Power Supply Unit	450 W (106 mm)	450 W (106 mm)	600 W (60 mm)	600 W (60 mm)	600 W (60 mm)	600 W (60 mm)
Power Supply Quantity	1	1	2	2	2	2
RAID Card	None (Chipset SATA)	None (Chipset SATA)	PERC H355	PERC H355	PERC H755 2x 1 GbE NIC A2 GPU (60 W)	PERC H755 2x 1 GbE NIC
Bezel	N/A	N/A	Yes	Yes	Yes	Yes
ODD	N/A	N/A	Yes	Yes	Yes	Yes
Other	N/A	N/A	N/A	BOSS	N/A	N/A

Table 20. Acoustical performance of T360 acoustical configurations

Configuration	Quietest Config	Entry	Volume	Volume Plus	Feature Rich with GPU	Feature Rich Max. Storage	
Acoustical Performance: Idle/ Operating @ 25 °C Ambient							
L _{WA,m} (B)	Idle	3.6	3.6	3.8	4.7	5.4	3.5
	Operating	3.8	3.8	3.8	4.8	7.5	4.7
K _v (B)	Idle	0.4	0.4	0.4	0.4	0.4	0.4
	Operating	0.4	0.4	0.4	0.4	0.4	0.4
L _{pA,m} (dB)	Idle	24	24	27	37	41	28
	Operating	27	27	28	39	63	37

Table 20. Acoustical performance of T360 acoustical configurations (continued)

Configuration	Quietest Config	Entry	Volume	Volume Plus	Feature Rich with GPU	Feature Rich Max. Storage
Prominent tones	No prominent tones in Idle and Operating					
Acoustical Performance: Idle @ 28 °C Ambient						
L _{wA,m} (B)	3.6	3.6	3.8	4.7	5.4	3.5
K _v (B)	0.4	0.4	0.4	0.4	0.4	0.4
L _{pA,m} (dB)	24	24	27	34	41	28
Acoustical Performance: Max. Loading @ 35 °C Ambient						
L _{wA,m} (B)	7.1	7.1	7.2	7.1	7.5	7.2
K _v (B)	0.4	0.4	0.4	0.4	0.4	0.4
L _{pA,m} (dB)	61	61	61	61	63	61

⁽¹⁾L_{wA,m}: The declared mean A-weighted sound power level (L_{wA}) is calculated per section 5.2 of ISO 9296 (2017) with data collected using the methods that are described in ISO 7779 (2010). Data presented here may not be fully compliant with the ISO 7779 declaration requirement.

⁽²⁾L_{pA,m}: The declared mean A-weighted emission sound pressure level is at the bystander position per section 5.3 of ISO 9296 (2017) and measured using methods that are described in ISO 7779 (2010). The system is placed on a standard table, 75 cm above a reflective floor. Data presented here may not be fully compliant with the ISO 7779 declaration requirement.

⁽³⁾Prominent tones: Criteria of D.6 and D.11 of ECMA-74 (17th ed., Dec. 2019) are followed to determine if discrete tones are prominent and to report them, if so.

⁽⁴⁾Idle mode: The steady-state condition in which the server is energized but not operating any intended function.

⁽⁵⁾Operating mode: The maximum of the steady state acoustical output at 50% of CPU TDP or active storage drives per C.9.3.2 in ECMA-74 (17th ed., Dec. 2019).

Power Capping

The PowerEdge T360 supports the NVIDIA A2 GPU, which provides enterprise-level performance, therefore, louder acoustic performance is expected. Power capping solutions provide better acoustic performance by limiting GPU performance by up to 20%.

Table 21. Acoustical performance of T360 on power capping

T360	Without Power Capping	With Power Capping
Acoustic Performance	7.5 bels	5.9 bels
Category	Category 5	Category 4

NOTE: PowerEdge T360 with GPU workload is not recommend for an acoustically sensitive environment.

NOTE: For optimal performance, the BOSS has been optimized for acoustic usage. However, if acoustic performance is not a priority, Performance Mode can be selected in the BIOS settings.

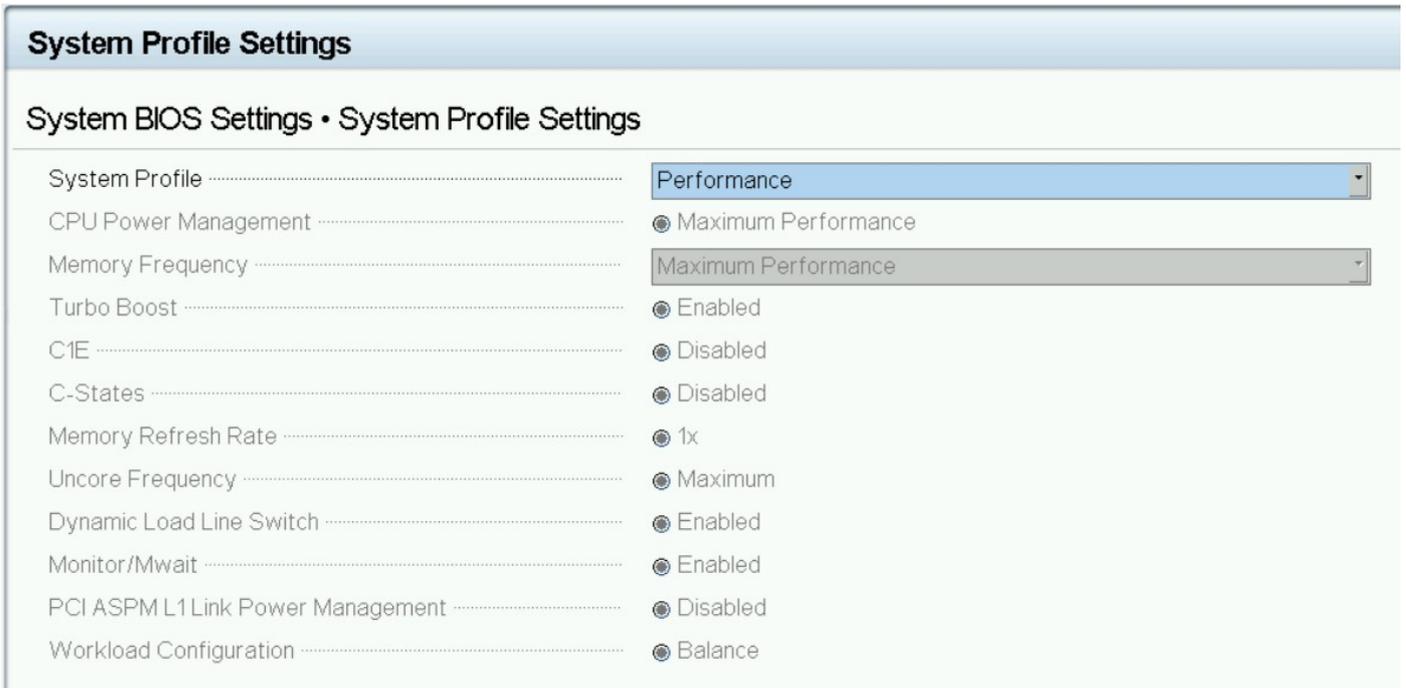


Figure 9. Selecting Performance Mode under the BIOS settings.

Operating Systems and Virtualization

Topics:

- [Supported Operating Systems](#)

Supported Operating Systems

The PowerEdge system supports the following operating systems:

- Canonical® Ubuntu® Server LTS
- Microsoft® Windows Server® with Hyper-V
- Red Hat® Enterprise Linux
- SUSE® Linux Enterprise server
- VMware® ESXi®

 **NOTE:** Intel Xeon® 6300 series CPUs do not support Windows Server 2019.

Links to specific OS versions and editions, certification matrices, Hardware Compatibility Lists (HCL) portal, and Hypervisor support are available at [Dell Enterprise Operating Systems](#).

Dell Systems Management

Dell delivers management solutions that help IT administrators effectively deploy, update, monitor, and manage IT assets. Dell solutions and tools enable you to quickly respond to problems by helping them to manage Dell servers efficiently; in physical, virtual, local, and remote environments; all without the need to install an agent in the operating system.

The OpenManage portfolio includes:

- Innovative embedded management tools - integrated Dell Remote Access Controller (iDRAC)
- Consoles - OpenManage Enterprise
- Extensible with plug-ins - OpenManage Power Manager
- Update tools - Repository Manager

Dell has developed comprehensive systems management solutions that are based on open standards and has integrated with management consoles from partners such as Microsoft and VMware, allowing advanced management of Dell servers. Dell management capabilities extend to offerings from the industry's top systems management vendors and frameworks such as Ansible, Splunk, and ServiceNow. OpenManage tools automate the full span of server life cycle management activities along with powerful RESTful APIs to script or integrate with your choice of frameworks.

For more information about the entire OpenManage portfolio, see:

- The latest [Dell Systems Management Overview Guide](#).

Topics:

- [Integrated Dell Remote Access Controller \(iDRAC\)](#)
- [Systems Management software support matrix](#)

Integrated Dell Remote Access Controller (iDRAC)

iDRAC9 delivers advanced, agent-free, local and remote server administration. Embedded in every PowerEdge server, iDRAC9 provides a secure means to automate a multitude of common management tasks. Because iDRAC is embedded within every PowerEdge server, there is no additional software to install; just plug in power and network cables, and iDRAC is ready to go. Even before installing an operating system (operating system) or hypervisor, IT administrators have a complete set of server management features at their fingertips.

With iDRAC9 in-place across the Dell PowerEdge portfolio, the same IT administration techniques and tools can be applied throughout. This consistent management platform allows easy scaling of PowerEdge servers as an organization's infrastructure grows. Customers can use the iDRAC RESTful API for the latest in scalable administration methods of PowerEdge servers. With this API, iDRAC enables support for the Redfish standard and enhances it with Dell extensions to optimize at-scale management of PowerEdge servers. By having iDRAC at the core, the entire OpenManage portfolio of Systems Management tools allows every customer to tailor an effective, affordable solution for any size environment.

Zero Touch Provisioning (ZTP) is embedded in iDRAC. ZTP - Zero Touch Provisioning is Intelligent Automation Dell's agent-free management puts IT administrators in control. Once a PowerEdge server is connected to power and networking, that system can be monitored and fully managed, whether you're standing in front of the server or remotely over a network. In fact, with no need for software agents, an IT administrator can: • Monitor • Manage • Update • Troubleshoot and remediate Dell servers. With features like zero-touch deployment and provisioning, iDRAC Group Manager, and System Lockdown, iDRAC9 is purpose-built to make server administration quick and easy. For those customers whose existing management platform utilizes in-band management, Dell does provide iDRAC Service Module, a lightweight service that can interact with both iDRAC9 and the host operating system to support legacy management platforms.

When ordered with DHCP enabled from the factory, PowerEdge servers can be automatically configured when they are initially powered up and connected to your network. This process uses profile-based configurations that ensure each server is configured per your specifications. This feature requires an iDRAC Enterprise license.

iDRAC9 offers following license tiers:

Table 22. iDRAC9 license tiers

License	Description
iDRAC9 Basic	<ul style="list-style-type: none"> • Available only on 100-500 series rack/tower • Basic instrumentation with iDRAC web UI • For cost conscious customers that see limited value in management
iDRAC9 Express	<ul style="list-style-type: none"> • Default on 600+ series rack/tower, modular, and XR series • Includes all features of Basic • Expanded remote management and server life-cycle features
iDRAC9 Enterprise	<ul style="list-style-type: none"> • Available as an upsell on all servers • Includes all features of Basic and Express. Includes key features such as virtual console, AD/LDAP support, and more • Remote presence features with advanced, Enterprise-class, management capabilities
iDRAC9 Datacenter	<ul style="list-style-type: none"> • Available as an upsell on all servers • Includes all features of Basic, Express, and Enterprise. Includes key features such as telemetry streaming, Thermal Manage, automated certificate management, and more • Extended remote insight into server details, focused on high end server options, granular power, and thermal management

For a full list of iDRAC features by license tier, see [Integrated Dell Remote Access Controller 9 User's Guide](#) at [Dell.com](#).

For more details on iDRAC9 including white papers and videos, see:

- [Support for Integrated Dell Remote Access Controller 9 \(iDRAC9\)](#) on the [Knowledge Base](#) page at [Dell.com](#)

Systems Management software support matrix

Table 23. Systems Management software support matrix

Categories	Features	PE mainstream
Embedded Management and In-band Services	iDRAC9 (Express, Enterprise, and Datacenter licenses)	Supported
	OpenManage Mobile	Supported
	OM Server Administrator (OMSA)	Supported
	iDRAC Service Module (iSM)	Supported
	Driver Pack	Supported
Change Management	Update Tools (Repository Manager, DSU, Catalogs)	Supported
	Server Update Utility	Supported
	Lifecycle Controller Driver Pack	Supported
	Bootable ISO	Supported
Console and Plug-ins	OpenManage Enterprise	Supported
	Power Manager Plug-in	Supported
	Update Manager Plug-in	Supported
	SupportAssist Plug-in	Supported
	CloudIQ	Supported
Integrations and connections	OM Integration with VMware Vcenter/vROps	Supported
	OM Integration with Microsoft System Center (OMIMSC)	Supported
	Integrations with Microsoft System Center and Windows Admin Center (WAC)	Supported

Table 23. Systems Management software support matrix (continued)

Categories	Features	PE mainstream
	ServiceNow	Supported
	Ansible	Supported
	Third-party Connectors (Nagios, Tivoli, Microfocus)	Supported
Security	Secure Enterprise Key Management	Supported
	Secure Component Verification	Supported
Standard operating system	Red Hat Enterprise Linux, SUSE, Windows Server 2019 or 2022, Ubuntu, CentOS	Supported (Tier-1)

Appendix D: Service and support

Topics:

- [Why attach service contracts](#)
- [ProSupport Infrastructure Suite](#)
- [Specialty Support Services](#)
- [ProDeploy Infrastructure Suite](#)
- [Supplemental Deployment Services](#)
- [Unique Deployment Scenarios](#)
- [DAY 2 – Automation Services with Ansible](#)
- [Dell Technologies Consulting Services](#)

Why attach service contracts

Dell PowerEdge servers include a standard hardware warranty that highlights our commitment to product quality by guaranteeing repair or replacement of defective components. While industry-leading, our warranties are limited to 1 or 3 years, depending on model, and do not cover software assistance. Call records show that customers are most often seeking Dell technical support for software related issues like configuration guidance, troubleshooting, upgrade assistance or performance tuning. Encourage customers to purchase ProSupport service contracts to supplement warranty coverage and ensure optimal support for both hardware and software. ProSupport provides a complete hardware guarantee beyond the original warranty period.

ProSupport Infrastructure Suite

ProSupport Infrastructure Suite is a set of support services that enable customers to build the solution that is right for their organization. It is an industry-leading, enterprise-class support that aligns with the criticality of your systems, the complexity of your environment, and the allocation of your IT resources.

Figure 10. ProSupport Enterprise Suite

	Basic Hardware Support ¹	ProSupport	BEST ProSupport Plus
Outcome Assistance and Advocacy via assigned Technical Customer Success Manager ⓘ			
Enjoy a frictionless customer experience with cross-functional lifecycle management aligned to your goals			✓
Accelerate time-to-value through onboarding assistance, education and success planning			✓
Turn challenges into opportunities with actionable strategies powered by data and AI-driven analytics			✓
Ensure coverage continuity while preparing to scale for future success			✓
Proactive Monitoring & Actionable Insights via Dell's connectivity solutions and tools			
Quickly visualize performance through a current system health score		✓	✓
Cybersecurity monitoring and mitigation recommendations provide another layer of protection		✓	✓
Predictive performance and capacity analysis address bottlenecks		✓	✓
Prevent or plan for downtime with predictive hardware anomaly detection		✓	✓
Energy consumption and carbon footprint forecasting support sustainability and stewardship initiatives		✓	✓
Get ahead of problems with proactive issue detection with automated case creation	✓	✓	✓
Streamline internal IT efforts with efficient service request and escalation management tools	✓	✓	✓
Minimize disruptions by self-dispatching eligible parts	✓	✓	✓
Support Essentials			
Receive an assigned incident manager for Sev 1 issues who will work your issue through to resolution		✓	✓
Count on Mission Critical Support during Sev 1 incidents and natural disasters ⓘ			✓
Keep systems code current and performing at peak through Proactive System Maintenance			✓
Get priority access to senior technical support engineers—skip the queues and callbacks			✓
Bringing your own software? We provide limited 3rd party software support ⓘ			✓
Choose onsite parts delivery and labor response that meets your needs	Next Business Day	NBD or 4-hour	4-hour
Select product coverage that best augments your internal resources	Hardware	Hardware & Software	Hardware & Software
Have an issue? We are here for you by phone, chat and online	Local business hours	24/7/365	24/7/365

ProSupport Plus for Infrastructure

ProSupport Plus for Infrastructure is the ultimate solution for customers seeking preventative maintenance and optimal performance on their business-critical assets. The service caters to customers who require proactive, predictive, and personalized support for systems that manage critical business applications and workloads. When customers purchase PowerEdge server, we recommend ProSupport Plus, our proactive and preventative support service for business-critical systems. ProSupport Plus provides all the benefits of ProSupport, including the following “Top five reasons to buy ProSupport Plus (PSP)”

- 1. Priority access to specialized support experts:** Immediate advanced troubleshooting from an engineer that understands Dell infrastructure solutions.
- 2. Mission Critical Support:** When critical (Severity 1) support issues happen, the customer is assured that we do all that we can to get them back up and running as quickly as possible.
- 3. Technical Customer Success Manager:** A customer’s #1 support advocate, ensuring they get the best possible proactive and predictive support experience.
- 4. Systems maintenance:** On a semiannual basis, we will keep a customer’s ProSupport Plus system(s) up to date by installing the latest firmware, BIOS, and driver updates to improve performance and availability.
- 5. Third-party software support:** Dell is a customer’s single point of accountability for any eligible third-party software that is installed on their ProSupport Plus system, whether they purchased the software from us or not.

ProSupport for Infrastructure

Comprehensive 24x7 support for hardware and software – best for production, but not critical, workloads and applications. The ProSupport service offers highly trained experts around the clock and around the globe to address IT needs. We help minimize disruptions and maximize availability of PowerEdge server workloads with:

- 24x7 support through phone, chat and online
- A central point of accountability for all hardware and software issues
- Hypervisor, operating system, and application support
- Dell security advisories

- Onsite response service levels 4 hour or Next Business Day options
- Proactive issue detection with automated case creation
- Predictive hardware anomaly detection
- Incident Manager assigned for Severity 1 cases
- Collaborative third-party support
- Access to AIOps Platforms - (MyService360, TechDirect, and CloudIQ)
- Consistent experience regardless of where customers are located or what language that they speak.

Basic Hardware Support

Provides reactive hardware support during normal business hours, excluding local national holidays. No software support or software-related guidance. For improved levels of support, choose ProSupport or ProSupport Plus.

Specialty Support Services

Optional specialty support services complement the ProSupport Infrastructure Suite to provide additional proficiencies that are critical for modern data center operations.

Hardware coverage add-ons to ProSupport or ProSupport Plus

- **Keep Your Hard Drive (KYHD), Keep Your Component (KYC), or Keep Your GPU (KYGPU):**

Normally if a device fails under warranty, Dell replaces it using a one-for-one exchange process. KYHD/KYCC/KYGPU gives you the option to retain your device. It provides full control of sensitive data and minimizes security risk by letting you retain possession of failed drives, components, or GPU when receiving replacement parts without incurring additional cost.

- **Onsite Diagnosis Service:**

Ideal for sites with non-technical staff. Dell field technician performs initial troubleshooting diagnosis onsite and transfers to Dell remote engineers to resolve the issue.

- **ProSupport Add-on for HPC:**

Sold as an add-on to a ProSupport service contract, the ProSupport Add-on for HPC provides solution-aware support to cover the additional requirements that are required to maintain an HPC environment such as:

- Access to senior HPC experts
- Advanced HPC cluster assistance: Performance, interoperability, and configuration
- Enhanced HPC solution level end-to-end support
- Remote pre-support engagement with HPC Specialists during ProDeploy implementation

- **ProSupport Add-on for Telco (Respond & Restore):**

An add-on service designed for the top 31 TELCO customers globally, Respond & Restore provides direct access to Dell solution experts who specialize in TELCO carrier-grade support. This add-on also provides a hardware uptime guarantee, meaning if a system fails, Dell has it installed and operational within 4 hours for Severity 1 issues. Dell incurs penalties and fees if SLAs are not met.

Personalized Support and Supplemental Site-wide Expertise

- **Technical Account Manager:**

Designated technology lead who monitors and manages the performance and configuration of specific technology sets.

- **Designated Remote Support:**

Personalized support expert who manages all troubleshooting and resolution of IT assets.

- **Multivendor Support Service:**

Support your third-party devices as one service plan for servers, storage, and networking (includes coverage for: Broadcom, Cisco, Fujitsu, HPE, Hitachi, Huawei, IBM, Lenovo, NetApp, Oracle, Quanta, SuperMicro and others).

Services for large enterprises

- **ProSupport One for Data Center:**

ProSupport One for Data Center offers flexible site-wide support for large and distributed data centers with more than 1,000 assets (combined total of server, storage, networking, so forth). This offering is built on standard ProSupport features that leverage our global scale and are tailored to specific customer needs. While not for everyone, this service option offers a truly unique solution for our largest customers with the most complex environments.

- Team of assigned Services Account Managers with remote or onsite options
- Assigned technical and field engineers who are trained on the customer's environment and configurations.
- On-demand reporting and recommendations that are enabled by ProSupport AIOps tools (MyService360, TechDirect, and CloudIQ)
- Flexible onsite support and parts options that fit their operational model
- A tailored support plan and training for their operations staff

- **ProSupport One for Data Center – CSP (Cloud Serviced Provider) and AI Solution**

ProSupport One for Data Center – CSP and AI Solution is a unique offer that is designed for a limited set of Dell accounts purchasing AI computing solutions greater than 1,000 servers and \$250M in sales. PS1DC - CSP and AI improves the entire services experience combining support, deployment (rack integration), residency services, a designated support engineer, an onsite service engineer, and an onsite parts service as one holistic offer. Special pricing has been determined to compete effectively against competitors and provide the best customer experience. PS1DC for CSP and AI can only be sold with XE Servers and all networking platforms (Dell and NVIDIA). All other products would be eligible for the standard PS1DC, not this unique offer. More details on PS1DC for CSP and AI [here](#).

- **Onsite Parts Service (OPS)**

Ideal for large organizations that have their own staff to support their data center. Dell offers a service that is called Onsite Parts Service (OPS) from Dell Services. OPS manages parts inventory located at the customer's designated facility. The Logistics Online Inventory Solution (LOIS) program will use software to support the monitoring and automatic replenishment of inventory stored on the customer site. . Each replacement part would automatically initiate a replenishment of the parts inventory that is shipped the next day or delivered onsite by Dell during a regular scheduled visit (called Scheduled Onsite Service). As part of the LOIS system, customers can integrate their systems directly to Dell TechDirect using APIs to help streamline the support management process.

End-of-Life Services

- **Post Standard Support (PSS)**

Extend service life beyond the initial seven years of ProSupport, adding up to five more additional years of hardware coverage.

- **Data Sanitization & Data Destruction**

Renders data unrecoverable on repurposed or retired products, ensuring security of sensitive data and enabling compliance and provides NIST-compliant certification.

- **Asset Recovery Services**

Recycle, resale, and disposal of hardware. Helps you securely and responsibly retire IT assets that are no longer needed while protecting both your business and the planet.

ProDeploy Infrastructure Suite

ProDeploy Infrastructure Suite provides various deployment offerings that satisfy a customer's unique needs. It is made up of various sub-offers: Factory Configuration Services, Rack Integration, Basic Deployment, ProDeploy, ProDeploy Plus, and optionally ProDeploy FLEX which allows for some customization of the features listed.

ProDeploy Infrastructure Suite

Versatile choices for accelerated deployments

NOTE: All XE Series servers require mandatory deployment

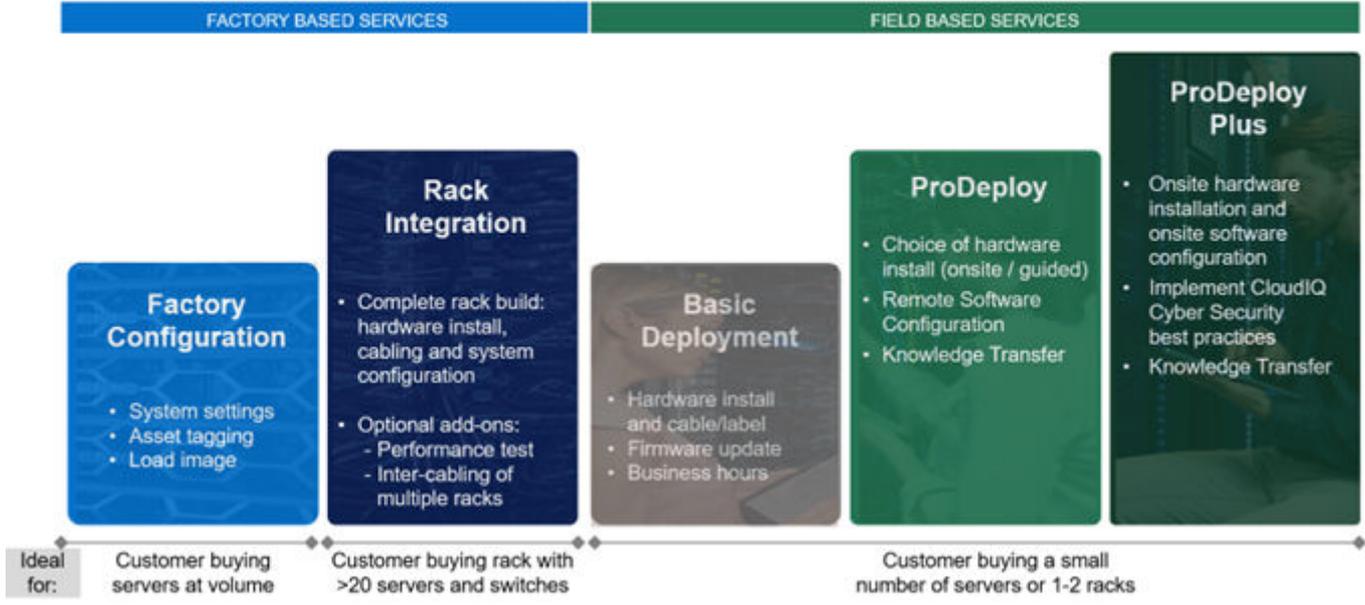


Figure 11. ProDeploy Infrastructure Suite

Factory-based Services

Pre-configured systems or complete racks, customized prior to shipping to the customer's site.

Customer Rack Integration or ProDeploy FLEX Rack Integration

Dell offers robust custom rack integration services through two main programs: Enterprise Rack Integration Services and Integrated Rack Scalable Systems (IRSS). These services are designed to streamline deployment, reduce complexity, and optimize performance for data centers, edge environments, and AI workloads. These factory services are purchased as a custom engagement or as ProDeploy Flex Rack Integration SKUs.

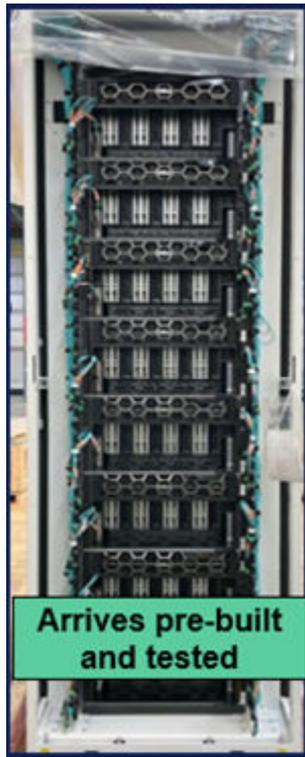


Figure 12. Pre-configured system



Figure 13. Pre-configured system

Factory Configuration

Ideal for customers buying servers in volume and seeking pre-configuration prior to shipping such as: custom image, system settings, and asset tagging so it arrives ready to use out of the box. Furthermore, servers are packaged and bundled to meet specific shipping and distribution requirements for each customer location to facilitate the rollout process. Once the server is onsite, Dell can install and configure the server to the environment using any of the field-based deployment services outlined in the next section.

Field-based services

Put PowerEdge servers to work faster with Dell field-based deployment services. Whether we are deploying one server to one thousand – we have you covered. Dell provides versatile delivery options to fit every budget and operating model.

- **ProDeploy Plus:** Elevate Infrastructure deployments with our most complete service from planning through onsite hardware installation and software configuration including the implementation of cybersecurity best practices. ProDeploy Plus provides the skill and scale that is needed to successfully execute demanding deployments in today's complex IT environments. The deployment starts with a site readiness review and implementation plan. Certified deployment experts perform the software configuration to include setup of leading operating systems and hypervisors. Dell will also configure PowerEdge software tools to include iDRAC and OpenManage system utilities as well as support AI Ops platforms: MyService360, TechDirect, and

CloudIQ. Unique to ProDeploy Plus, the cybersecurity implementation helps customers understand potential security risks and make recommendations for reducing product attack surfaces. The system is tested, validated prior to completion. The customer will also receive full project documentation and knowledge transfer to complete the process.

- **ProDeploy:** ProDeploy provides remote software configuration and choice of hardware installation (onsite or guided). ProDeploy is great for customers who are price sensitive or willing to participate in some portion of the deployment to include providing remote access to their network. The ProDeploy remote software includes everything mentioned in ProDeploy Plus except it does not include the added value, cybersecurity implementation, and implementation best practices.
- **Basic Deployment:** Basic Deployment delivers worry-free professional installation by experienced technicians. This service is often sold to Competency Enabled Partners who will have Dell do the hardware installation while they complete the software configuration. Furthermore, Basic Deployment tends to be purchased by large enterprises who have smart technical staff. These companies just need Dell to install the hardware, and they will perform the software configuration. The last use case for Basic Deployment is when paired with Factory Configuration services. The servers are preconfigured in the factory, and the basic deployment service will install the system into the rack to finalize the deployment.

ProDeploy Infrastructure Suite | Field services

		Basic Deployment	ProDeploy	ProDeploy Plus
Pre-deployment	Single point of contact for project management	-	●	In region
	Site readiness review and implementation planning	-	●	●
Deployment	Deployment service hours	Business hours	24/7	24/7
	Hardware installation options	Onsite	Onsite or guided ¹	Onsite
	System software installation and configuration options	-	Remote	Onsite
	Install connectivity software based on Secure Connect Gateway technology ²	-	●	●
	Implement CyberSecurity best practices and policies in APEX AIOps Infrastructure Observability	-	-	●
Post-deployment	Deployment verification, documentation and knowledge transfer	-	●	●
	Configuration data transfer to Dell technical support	-	●	●
Online collaboration	Online collaborative platform in TechDirect for planning, managing and tracking delivery	-	●	●

¹ Choose from onsite hardware installation or a guided option including project specific instructions, documentation and live expert guidance
² Post deployment use for intelligent, automated support & insights

Figure 14. ProDeploy Infrastructure Suite - Field services

Supplemental Deployment Services

Additional ways to expand scope or deploy for unique scenarios.

Two Host Adder (requires PD/PDP)

Deploying new storage, compute, or networking devices may require interconnection to other servers (also called hosts). The Dell delivery team will set up four hosts per device as part of every ProDeploy service. For example, if the customer is buying two storage arrays the ProDeploy service will automatically include connectivity of four hosts each (4x2=8 total hosts per project since there are two devices). This supplemental "Two Host Adder" service provides for the configuration of additional hosts above what is already provided as part of the ProDeploy service. In many cases, customers can work with us while we set up the included hosts, so they may understand how to do the rest themselves. Always ask the customer how many hosts are being connected and sell the host adder depending on the customer's technology skillset. Note that this service applies to the connectivity of Dell devices not 3rd party devices.

Additional Deployment Services (ADT) – sold with or without PD/PDP

You can expand the scope of a ProDeploy engagement leveraging Additional Deployment Time (ADT). ADT covers additional tasks above the normal deliverables of the ProDeploy offers. ADT can also be used as a standalone service without ProDeploy.

SKUs are available for both Project Management and Technical Resource Expertise. SKUs are sold as blocks of four hours remote or eight hours onsite. The delivery team can help in scoping the number of hours required for additional tasks.

Data Migration Services

Migrating data sets is no easy task. Our experts use proven tools and process to streamline data migrations and avoid compromising data. A customer project manager works with our experienced team of experts to create a migration plan. Data migration is part of every technology upgrade, platform change, and shift to the cloud. You can rely on Dell data migration services to perform a seamless transition.

Residency Services

Certified technical professionals act like an extension of your IT staff to enhance internal capabilities and resources and help you realize faster adoption and maximized ROI of new technology. Residency Services help customers transition to new capabilities quickly by leveraging specific technology skill sets. Residency experts can provide post implementation management and knowledge transfer that is related to a new technology acquisition or day-to-day operational management of the IT infrastructure.

- Global experts available to serve in-person (onsite) or virtual (remote)
- Engagements starting at 2 weeks with flexibility to adjust
- Residency is available for project management needs, and many different technology skills sets such as: Server, storage, Gen AI, networking, security, multi-cloud, data mgmt., and modern workforce application residents

Unique Deployment Scenarios

Custom Deployment Services

When a deployment is beyond the scope of the ProDeploy Infrastructure Suite, you can turn to the custom deployment services team to address complex implementation scenarios and customer unique requirements. The Dell custom deployment team is staffed with solution architects who will assist with customer scoping calls to define the project and develop the statement of work. Custom services can handle a wide range of deployments that can be performed in the factory or onsite. All custom engagement services are requested through SFDC.

Deployment of AI or HPC using Cluster Build Services

Once the integrated rack arrives the data center or is built onsite, Dell can also convert the racks into a large computing cluster. Dell provides several deploy options for Artificial Intelligence (AI) or High-Performance Computing (HPC) implementations. These complex environments require specialists that understand advanced feature sets to create a unified computing cluster for the most demanding workloads. Choose one of the cluster build add-ons below.

Sell as Custom Quote or Standard SKUs
Add-ons 1 & 2 arriving as standard SKUs in Sept.

ProDeploy Flex Rack Integration or ProDeploy Flex Onsite + **Cluster Build Add-ons**
Select one or more add-ons below



		Ideal for
1	Physical Configuration of Cluster <ul style="list-style-type: none"> Onsite Infrastructure Assessment Installation of switches¹ Inter-rack cabling and labeling Liquid connectivity and leak test² 	Customers needing help with installing the network, inter-rack cabling, and fabric testing
2	Logical Configuration of Cluster <ul style="list-style-type: none"> Review system design and plan Configure switches & mgmt nodes Validation and acceptance testing 	Customers requiring cluster configuration and essential testing of the solution
3	AI Network Design Services <ul style="list-style-type: none"> 2-week intensive consultation that accelerates AI network performance and maximizes operational efficiency³ 	Customers seeking foundational design strategy to achieve optimal performance

When the environment is demanding, your configuration can't be average ★★★★★

Key Benefits:

- Factory rack integration enables faster time to value and reliability
- Reduce onsite setup time and fast track to production
- Fine-tuned system performance based on workload types
- Services aligned with enterprise-grade security standards
- Final testing and customer handoff lessen amount of support calls

1 -- Network switches to be installed in factory or onsite depending on requirements. Choose options: ProDeploy Flex Rack Integration or ProDeploy Flex Onsite combined with PD Flex Cluster Add-ons
2 -- If applicable. Leak test performed in factory and again onsite which is limited to in-rack CXK!
Secondary Fluid Network (SFN) design and deployment quoted separately by Vertiv or Mollnar.
3 -- AI Network Design Service is ordered as a Custom Service Engagement via SFDC or SFP

Figure 15. Deployment choices for cluster implementation

DAY 2 – Automation Services with Ansible

Dell solutions are built as “automation ready” with integrated APIs (Application Programming Interfaces) to allow customers to programmatically call actions on the product through code. Although Dell has published Ansible automation use cases, some customers need additional assistance with GitOps. By the end of the service, the customer will have the foundational components required to accelerate automation and understand how the programming works together: Day 1 and Day 2 use case automation scripts (ansible modules), CI/CD tool (Jenkins), and Version control (Git).

Dell Technologies Consulting Services

Our expert consultants help customers transform faster, and quickly achieve business outcomes for the high-value workloads Dell PowerEdge systems can handle. From strategy to full-scale implementation, Dell Technologies Consulting can help determine how to perform IT, workforce, or application transformation. We use prescriptive approaches and proven methodologies that are combined with the portfolio and partner ecosystem of Dell Technologies to help achieve real business outcomes. From multicloud, applications, DevOps, and infrastructure transformations, to business resiliency, data center modernization, analytics, workforce collaboration, and user experiences—we are here to help.

Dell Managed Services

Some customers prefer Dell to manage the complexity and risk of daily IT operations, Dell Managed Services utilizes proactive, AI enabled delivery operations and modern automation to help customers realize desired business outcomes from their infrastructure investments. With these technologies, our experts run, update, and fine-tune customer environments that are aligned with service levels, while providing environment-wide and down-to-the-device visibility. There are two types of managed service offers. First the outsourcing model or CAPEX model where Dell manages the customer owned assets using our people and tools. The second is the as-a-Service model or OPEX model called APEX. In this service, Dell owns all technology and all the management of it. Many customers will have a blend of the two management types depending on the goals of the organization.

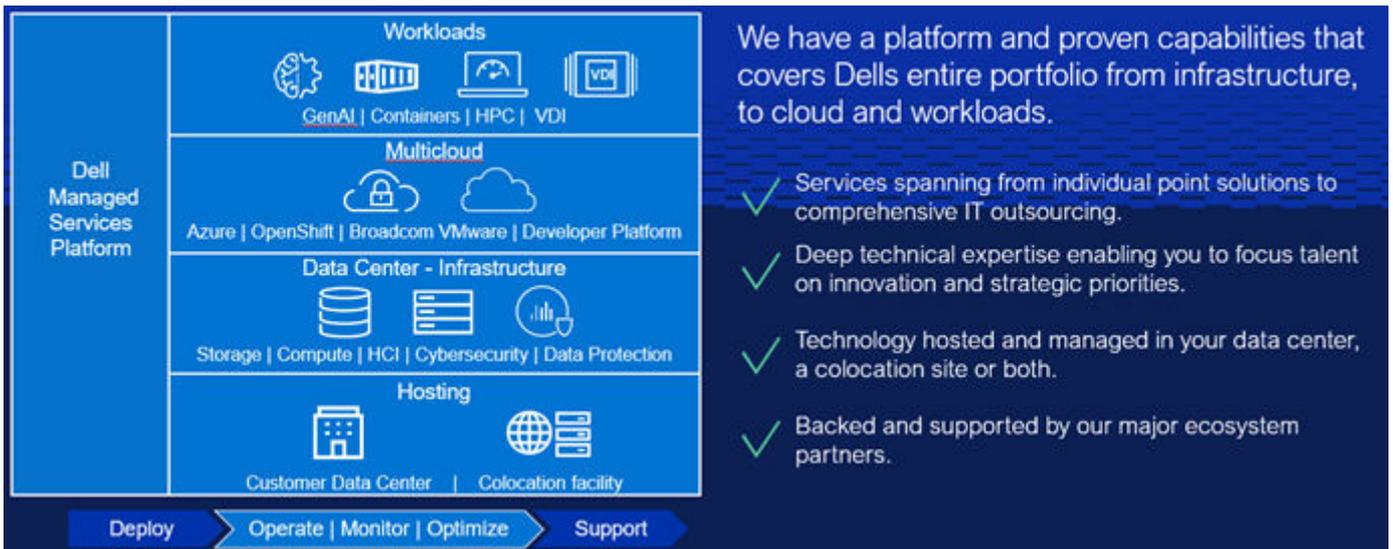


Figure 16. Dell Managed Services

Cyber-Security Services

Managed Detection and Response (MDR)

Dell Managed Detection and Response Pro Plus is our fully-managed, 360° security operations solution comprised of our most cutting-edge, preventive and responsive cybersecurity services. MDR Pro Plus was designed with your top security concerns in mind, allowing you to focus on your core business goals while Dell handles your security operations. First, we have Vulnerability Management. With this service, we'll do ongoing scanning of the customer's environment looking for software that needs to be patched. Next is Pen Testing and Attack Simulation Management. This service will continuously validate security controls and policies with automated Breach and Attack Simulation (BAS), because a misconfiguration can lead to an exposure which an attacker can exploit. The service also includes an annual penetration test to determine if a skilled threat actor could exploit pathways leading to critical assets or data. Third, Managed Security Awareness Training. This service will educate the customer's end users so that they don't inadvertently put the customer at risk. If you think about our annual compliance training modules, there is always a security module. This is the same type of thing, but rather than once a year, it will be smaller, bite-size pieces of content delivered throughout the year. Fourth is our Managed Detection and Response service which provides 24x7 threat detection and investigation, analysis of end-to-end activity by threat actors, threat hunting, and quick initiation of cyber incident response when needed. Customers can choose between Secureworks Taegis XDR, CrowdStrike Falcon XDR or Microsoft Defender XDR as the security analytics platform our analysts will use to monitor their environment. All four of these services are delivered by experienced, certified Dell security experts using advanced technology such as the Secureworks Taegis XDR, CrowdStrike Falcon XDR or Microsoft Defender XDR security platforms.

Dell Technologies Education Services

Build the IT skills required to influence the transformational outcomes of the business. Enable talent and empower teams with the right skills to lead and perform transformational strategy that drives competitive advantage. Leverage the training and certification that is required for real transformation.

Dell Technologies Education Services offers PowerEdge server training and certifications that are designed to help customers achieve more from their hardware investment. The curriculum delivers the information and the practical, firsthand skills that their team must confidently install, configure, manage, and troubleshoot Dell servers.

To learn more or register for a class today, see [Education.Dell.com](https://www.dell.com/education).

Resources

[Service for powerEdge](#)

Appendix A: Additional specifications

Topics:

- Chassis dimensions
- System weight
- NIC port specifications
- Video specifications
- USB Ports
- PSU rating
- Environmental specifications

Chassis dimensions

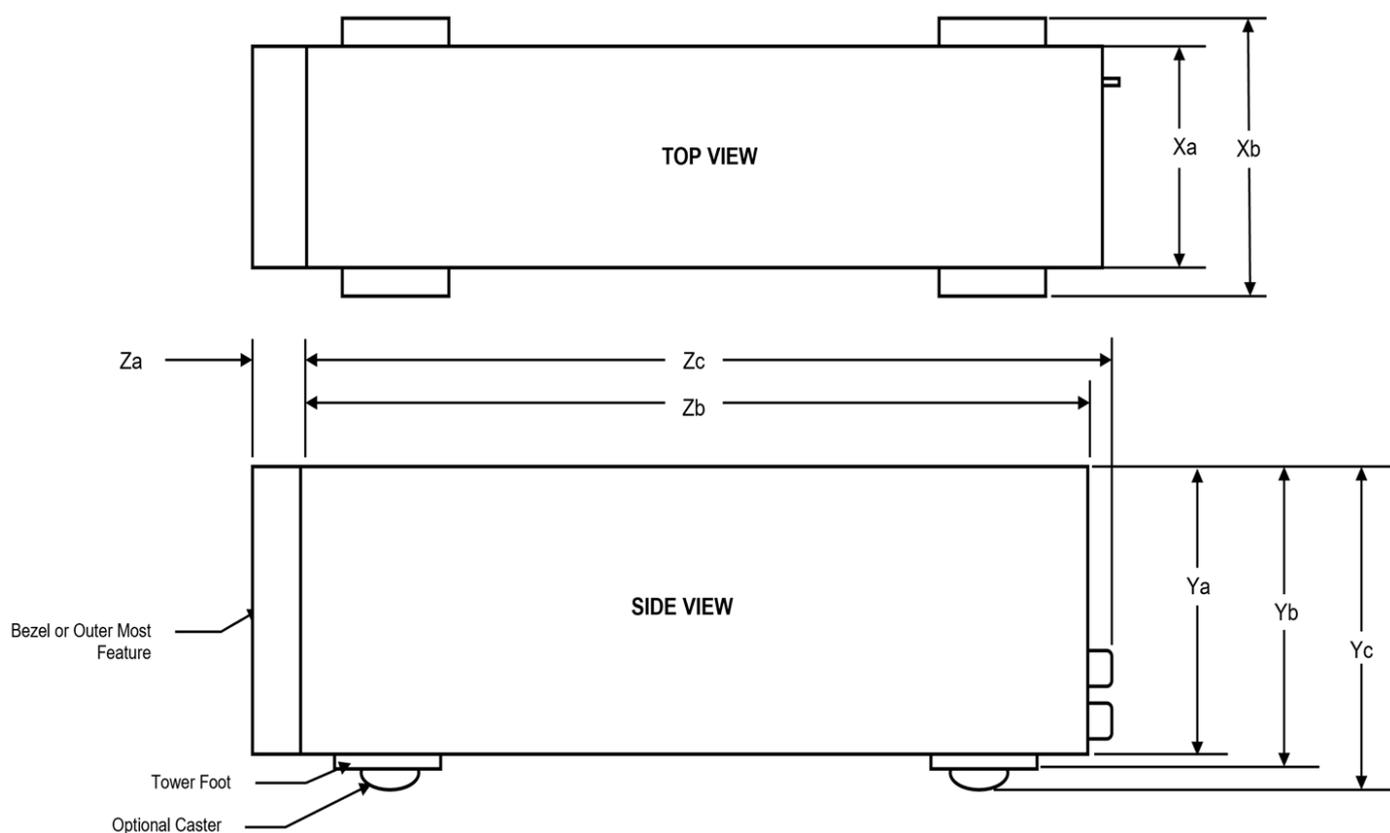


Figure 17. Chassis dimensions

Table 24. Chassis dimension for the system

Drives	Xa	Xb	Ya	Yb	Yc	Za (with bezel)	Za (without bezel)	Zb	Zc
8 x 3.5-inch SAS/SATA HDD/SSD	175.0 mm (6.89 inches)	N/A	369.5 mm (14.55 inches)	382.5 mm (15.06 inches)	N/A	19 mm (0.75 inches)	N/A	560.5 mm (22.07 inches)	562.12 mm (22.13 inches)

Table 24. Chassis dimension for the system (continued)

Drives	Xa	Xb	Ya	Yb	Yc	Za (with bezel)	Za (without bezel)	Zb	Zc
6 x 3.5-inch SAS/SATA HDD/SSD drives + 2 x 2.5-inch direct attached NVMe	175.0 mm (6.89 inches)	N/A	369.5 mm (14.55 inches)	382.5 mm (15.06 inches)	N/A	19 mm (0.75 inches)	N/A	560.5 mm (22.07 inches)	562.12 mm (22.13 inches)

System weight

Table 25. PowerEdge T360 system weight

System configuration	Maximum weight (with all drives/SSDs)
A server with fully populated drives	25.10 kg (55.34 lbs)
A server without drives and PSU installed	18.29 kg (40.32 lbs)

NIC port specifications

The PowerEdge T360 system supports up to two 10/100/1000 Mbps Network Interface Controller (NIC) ports embedded on the LAN on Motherboard (LOM).

Table 26. NIC port specification for the system

Feature	Specifications
LOM on Planar	2 x 1 GbE
Network Card	1 GbE x 4, 10 GbE x 2, 10 GbE x 4

Video specifications

The PowerEdge T360 system supports integrated Matrox G200eW graphics controller with 16 MB of video frame buffer.

Table 27. Supported video resolution options

Resolution	Refresh rate (Hz)	Color depth (bits)
640 x 480	60 Hz	32
640 x 480	72 Hz	32
640 x 480	75 Hz	32
640 x 480	85 Hz	32
800 x 600	60 Hz	32
800 x 600	72 Hz	32
800 x 600	75 Hz	32
800 x 600	85 Hz	32
1024 x 768	60 Hz	32
1024 x 768	72 Hz	32

Table 27. Supported video resolution options (continued)

Resolution	Refresh rate (Hz)	Color depth (bits)
1024 x 768	75 Hz	32
1024 x 768	85 Hz	32
1280 x 800	60 Hz	32
1280 x 800	75 Hz	32
1280 x 1024	60 Hz	32
1280 x 1024	75 Hz	32
1360 x 768	60 Hz	32
1440 x 900	60 Hz	32
1440 x 900	60 Hz (RB)	32
1600 x 900	60 Hz (RB)	32
1600 x 900	60 Hz (RB)	32
1600 x 1200	60 Hz	32
1600 x 1200	60 Hz (RB)	32
1680 x 1050	60 Hz (RB)	32
1680 x 1050	60 Hz	32
1920 x 1080	60 Hz	32
1920 x 1080	60 Hz (RB)	32
1920 x 1200	60 Hz	32
1920 x 1200	60 Hz (RB)	32

USB Ports

Table 28. PowerEdge T360 USB port specifications

Front		Rear		Internal (Optional)	
Port type	No. of ports	Port type	No. of ports	Port type	No. of ports
USB 2.0	One	USB 2.0	Three	USB 3.2 Gen1	One
USB 3.2 Gen1	One	USB 3.2 Gen1	Three		

PSU rating

Below table lists the power capacity of the PSUs in high/low line operation mode.

Table 29. PSUs High line and Low line ratings

—	450 W Platinum 106 mm	600 W Platinum 60 mm	700 W Titanium 60 mm
AC High Line	450 W	600 W	700 W
AC Low Line	450 W	600 W	N/A
High Line 240 VDC	N/A	600 W	700 W
High Line 200 - 380 VDC	N/A	N/A	N/A

Table 29. PSUs High line and Low line ratings (continued)

—	450 W Platinum 106 mm	600 W Platinum 60 mm	700 W Titanium 60 mm
DC -(48 to 60 V)	N/A	N/A	N/A

The PowerEdge T360 supports up to two AC power supplies with 1+1 redundancy, autosensing, and auto switching capability.

If two PSUs are present during POST, a comparison is made between the wattage capacities of the PSUs. In case the PSU wattages do not match, the larger of the two PSUs is enabled. Also, there is a PSU mismatch warning that is displayed in BIOS, iDRAC, or on the system LCD.

If a second PSU is added at run-time, in order for that particular PSU to be enabled, the wattage capacity of the first PSU must equal the second PSU. Otherwise, the PSU is flagged as unmatched in iDRAC and the second PSU is not enabled.

The PowerEdge T360 also supports a single cabled AC power supply unit.

Dell PSUs have achieved Platinum efficiency levels as shown in the table below.

Table 30. PSU efficiency level

Efficiency Targets by Load						
Form factor	Output	Class @HLAC	10%	20%	50%	100%
Redundant 60 mm	600 W	Platinum	-	90.00%	94.00%	91.00%
	700 W	Titanium	90.00%	94.00%	96.00%	91.00%
Cabled 106 mm	450 W	Platinum	-	90.00%	94.00%	91.00%

Environmental specifications

 **NOTE:** For additional information about environmental certifications, refer to the *Product Environmental Datasheet* located with the *Documentation* on [support](#).

Table 31. Continuous Operation Specifications for ASHRAE A2

Temperature	Allowable continuous operations
Temperature range for altitudes <= 900 m (<= 2953 ft)	10–35°C (50–95°F) with no direct sunlight on the equipment
Humidity percent range (non-condensing at all times)	8% RH with -12°C minimum dew point to 80% RH with 21°C (69.8°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/300 m (33.8°F/984 Ft) above 900 m (2953 Ft).

Table 32. Continuous Operation Specifications for ASHRAE A3

Temperature	Allowable continuous operations
Temperature range for altitudes <= 900 m (<= 2953 ft)	5–40°C (41–104°F) with no direct sunlight on the equipment
Humidity percent range (non-condensing at all times)	8% RH with -12°C minimum dew point to 85% RH with 24°C (75.2°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/175 m (33.8°F/574 Ft) above 900 m (2953 Ft).

Table 33. Continuous Operation Specifications for ASHRAE A4

Temperature	Allowable continuous operations
Temperature range for altitudes <= 900 m (<= 2953 ft)	5–45°C (41–113°F) with no direct sunlight on the equipment

Table 33. Continuous Operation Specifications for ASHRAE A4 (continued)

Temperature	Allowable continuous operations
Humidity percent range (non-condensing at all times)	8% RH with -12°C minimum dew point to 90% RH with 24°C (75.2°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/125 m (33.8°F/410 Ft) above 900 m (2953 Ft).

Table 34. Continuous Operation Specifications for Rugged Environment

Temperature	Allowable continuous operations
Temperature range for altitudes <= 900 m (<= 2953 ft)	5–55°C (41–131°F) with no direct sunlight on the equipment
Humidity percent range (non-condensing at all times)	8% RH with -12°C minimum dew point to 90% RH with 24°C (75.2°F) maximum dew point
Operational altitude de-rating	Maximum temperature is reduced by 1°C/125 m (33.8°F/410 Ft) above 900 m (2953 Ft).

Table 35. Common Environmental Specifications for ASHRAE A2, A3, A4, and Rugged

Allowable continuous operations	
Maximum temperature gradient (applies to both operation and non-operation).	20°C in an hour* (36°F in an hour) and 5°C in 15 minutes (41°F in 15 minutes), 5°C in an hour* (41°F in an hour) for tape <i>i</i> NOTE: * - Per ASHRAE thermal guidelines for tape hardware, these are not instantaneous rates of temperature change.
Non-operational temperature limits	-40 to 65°C (-40 to 149°F)
Non-operational humidity limits	5% to 95% RH with 27°C (80.6°F) maximum dew point
Maximum non-operational altitude	12,000 meters (39,370 ft)
Maximum operational altitude	3,048 meters (10,000 ft)

Table 36. Maximum vibration specifications

Maximum vibration	Specifications
Operating	0.26 G _{rms} at 5 Hz to 350 Hz (all operation orientations)
Storage	1.88 G _{rms} at 10 Hz to 500 Hz for 15 minutes (all six sides tested)

Table 37. Maximum shock pulse specifications

Maximum shock pulse	Specifications
Operating	Six consecutively executed shock pulses in the positive and negative x, y, and z axis of 6 G for up to 11 ms.
Storage	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 ms.

Particulate and gaseous contamination specifications

The following table defines the limitations that help avoid any equipment damage or failure from particulates and gaseous contamination. If the levels of particulates or gaseous pollution exceed the specified limitations and result in equipment damage or failure, you must rectify the environmental conditions. Remediation of environmental conditions is the responsibility of the customer.

Table 38. Particulate contamination specifications

Particulate contamination	Specifications
Air filtration: Conventional Data Center only	<p>Data center air filtration as defined by ISO Class 8 per ISO 14644-1 with a 95% upper confidence limit</p> <p>i NOTE: Filtering room air with a MERV8 filter, as specified in ANSI/ASHRAE Standard 127, is a recommended method for achieving the necessary environmental conditions.</p> <p>i NOTE: Air entering the data center must have MERV11 or MERV13 filtration.</p> <p>i NOTE: This condition applies to data center environments only. Air filtration requirements do not apply to IT equipment designed to be used outside a data center, in environments such as an office or factory floor.</p>
Walk-Up Edge Data Center or Cabinet (sealed, closed loop environment)	<p>Filtration is not required for cabinets that are anticipated to be opened six times or less per year. Class 8 per ISO 1466-1 filtration as defined above is required otherwise.</p> <p>i NOTE: In environments commonly above ISA-71 Class G1 or that may have known challenges, special filters may be required.</p>
Conductive dust: data center and non-data center environments	<p>Air must be free of conductive dust, zinc whiskers, or other conductive particles.</p> <p>i NOTE: Conductive dust, which can interfere with equipment operation, can originate from various sources, including manufacturing processes and zinc whiskers that may develop on the plating of raised floor tiles.</p> <p>i NOTE: This condition applies to data center and non-data center environments.</p>
Corrosive dust: data center and non-data center environments	<ul style="list-style-type: none"> • Air must be free of corrosive dust. • Residual dust present in the air must have a deliquescent point less than 60% relative humidity. <p>i NOTE: This condition applies to data center and non-data center environments.</p>

Table 39. Gaseous contamination specifications

Gaseous contamination	Specifications	Notes
Copper coupon corrosion rate	ISA-71 Class G1: <300 Å/month	Per ANSI/ISA71.04
Silver coupon corrosion rate	ISA-71 Class G1: <200 Å/month	Per ANSI/ISA71.04

Thermal restriction matrix

Table 40. Label reference

Label	Description
STD	Standard
HPR	High performance
HSK	Heat sink

Table 41. Thermal restriction matrix

-	TDP	Number of Cores	Configuration 1: 4x3.5-inch SATA	Configuration 2: 8x3.5- inch SAS/SATA
			HSK/FAN type	HSK/FAN type
CPU TDP	95 W	8	HPR/STD	HPR/STD
	95 W	6	HPR/STD	HPR/STD
	80 W	8	STD/STD	STD/STD
	80 W	6	STD/STD	STD/STD
	70 W	4	STD/STD	STD/STD
	65 W	8	STD/STD	STD/STD
	65 W	6	STD/STD	STD/STD
	55 W	4	STD/STD	STD/STD
	46 W	2	STD/STD	STD/STD
	35 W	2	STD/STD	STD/STD

NOTE:

1. If an A2 GPU or a PCIe card >25 W or Broadcom 57454 Quad Port 10 GbE BASE-T Adapter is installed, an HPR PCI fan and PCIe shroud are needed.
2. If BOSS is installed, an STD PCI fan and PCIe shroud are needed for both configurations.

Thermal air restrictions

ASHRAE A3/A4 environment

- The operating temperature is for a maximum altitude of 950 m for ASHRAE A3/A4 Cooling
- Redundant power supplies are required
- BOSS module is not supported
- Cooling redundancy is not supported due to single fan in the system (cooling zone is separated)
- A2 GPU is not supported
- Non-Dell qualified peripheral cards and /or peripheral cards greater than 25 W are not supported

Appendix A. Standards compliance

The system conforms to the following industry standards.

Table 42. Industry standard documents

Standard	URL for information and specifications
ACPI Advance Configuration and Power Interface Specification, v6.4	ACPI
Ethernet IEEE Std 802.3-2022	IEEE Standards
MSFT WHQL Microsoft Windows Hardware Quality Labs	Windows Hardware Compatibility Program
IPMI Intelligent Platform Management Interface, v2.0	IPMI
DDR5 Memory DDR5 SDRAM Specification	JEDEC Standards
PCI Express PCI Express Base Specification, v5.0	PCIe Specifications
PMBus Power System Management Protocol Specification, v1.2	Power System Management Protocol Specification
SAS Serial Attached SCSI, 3 (SAS-3) (T10/INCITS 519)	SCSI Storage Interfaces
SATA Serial ATA Rev. 3.3	SATA IO
SMBIOS System Management BIOS Reference Specification, v3.3.0	DMTF SMBIOS
TPM Trusted Platform Module Specification, v1.2 and v2.0	TPM Specifications
UEFI Unified Extensible Firmware Interface Specification, v2.7	UEFI Specifications
PI Platform Initialization Specification, v1.7	
USB Universal Serial Bus v2.0 and SuperSpeed v3.0 (USB 3.1 Gen1)	USB Implementers Forum, Inc. USB
NVMe Express Base Specification. Revision 2.0c	NVMe
NVMe Command Set Specifications	
1. NVMe Express NVM Command Set Specification. Revision 1.1c	
2. NVMe Express Zoned Namespaces Command Set. Revision 1.0c	
3. NVMe Express® Key Value Command Set. Revision 1.0c	
NVMe Transport Specifications	
1. NVMe Express over PCIe Transport. Revision 1.0c	
2. NVMe Express RDMA Transport Revision. 1.0b	
3. NVMe Express TCP Transport. Revision 1.0c	
NVMe NVM Express Management Interface. Revision 1.2c	
NVMe NVMe Boot Specification. Revision 1.0	

Appendix C Additional resources

Table 43. Additional resources

Resource	Description of contents	Location
Installation and Service Manual	<p>This manual, available in PDF format, provides the following information:</p> <ul style="list-style-type: none"> • Chassis features • System Setup program • System indicator codes • System BIOS • Remove and replace procedures • Diagnostics • Jumpers and connectors 	Dell.com/Support/Manuals
Getting Started Guide	<p>This guide ships with the system, and is also available in PDF format. This guide provides the following information:</p> <ul style="list-style-type: none"> • Initial setup steps 	Dell.com/Support/Manuals
Rack Installation Guide	<p>This document ships with the rack kits, and provides instructions for installing a server in a rack.</p>	Dell.com/Support/Manuals
System Information Label	<p>The system information label documents the system board layout and system jumper settings. Text is minimized due to space limitations and translation considerations. The label size is standardized across platforms.</p>	Inside the system chassis cover
QR code for system resources	<p>This code on the chassis can be scanned by a phone application to access additional information and resources for the server, including videos, reference materials, service tag information, and Dell contact information.</p>	Inside the system chassis cover
Enterprise Infrastructure Planning Tool (EIPT)	<p>The Dell online EIPT enables easier and more meaningful estimates to help you determine the most efficient configuration possible. Use EIPT to calculate the power consumption of your hardware, power infrastructure, and storage.</p>	Dell.com/calc