

VMware vSphere 6.5.x on Dell EMC PowerEdge Servers

Compatibility Matrix

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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Overview

This document provides information about Dell EMC-supported PowerEdge servers compatible with VMware ESXi 6.5.x.

Dell EMC PowerEdge servers—compatibility matrix

The following table lists the supported processors for Dell EMC PowerEdge servers.

NOTE: The PowerEdge servers are represented using the generic naming convention. To identify the range of server models, see [Identifying the series of your Dell EMC PowerEdge servers](#).

Table 1. Dell EMC yx5x PowerEdge servers—compatibility matrix

yx5x PowerEdge servers	Processor series y	Supported releases				Boot device		
		ESXi 6.5	ESXi 6.5 U1	ESXi 6.5 U2	ESXi 6.5 U3	Hard drive	Flash (SD) card	BOSS S1
C6525	AMD EPYC 7xx2 series	X	X	X	✓	✓	✓	✓
R7525	AMD EPYC 7xx2 series	X	X	X	✓	✓	✓	✓
R7515	AMD EPYC 7xx2 series	X	X	X	✓	✓	✓	✓
R6525	AMD EPYC 7xx2 series	X	X	X	✓	✓	✓	✓
R6515	AMD EPYC 7xx2 series	X	X	X	✓	✓	✓	✓

Table 2. Dell EMC yx4x PowerEdge servers—compatibility matrix

yx4x PowerEdge servers	Processor series	Supported releases				Boot device		
		ESXi 6.5	ESXi 6.5 U1	ESXi 6.5 U2	ESXi 6.5 U3	Hard drive	Flash (SD) card	BOSS S1
MX840c, MX740c	Intel Xeon SP (81xx, 61xx, 51xx, 41xx, 31xx) series	X	X	✓	✓	✓	✓	✓
	Intel Xeon SP (82xx, 62xx, 52xx, 42xx, 32xx) series	X	X	✓	✓	✓	✓	✓
R940	Intel Xeon SP (81xx, 61xx, 51xx) series	✓	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (82xx, 62xx, 52xx) series	X	X	✓	✓	✓	✓	✓
R940xa, R840	Intel Xeon SP (81xx, 61xx, 51xx) series	X	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (82xx, 62xx, 52xx) series	X	X	✓	✓	✓	✓	✓
R7425, R7415, R6415	AMD EPYC 7XX1 series	X	✓	✓	✓	✓	✓	✓
R740xd2	Intel Xeon SP (61xx, 51xx, 41xx, 31xx) series	X	X	✓	✓	✓	✓	✓
	Intel Xeon SP (62xx, 52xx, 42xx, 32xx) series	X	X	✓	✓	✓	✓	✓

yx4x PowerEdge servers	Processor series	Supported releases				Boot device		
		ESXi 6.5	ESXi 6.5 U1	ESXi 6.5 U2	ESXi 6.5 U3	Hard drive	Flash (SD) card	BOSS S1
R740, R740xd, R640	Intel Xeon SP (81xx, 61xx, 51xx, 41xx, 31xx) series	✓	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (82xx, 62xx, 52xx, 42xx, 32xx) series	✗	✗	✓	✓	✓	✓	✓
R540, R440	Intel Xeon SP (61xx, 51xx, 41xx, 31xx) series	✗	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (62xx, 52xx, 42xx, 32xx) series	✗	✗	✓	✓	✓	✓	✓
R340, R240	Intel Xeon E-2100 series	✗	✗	✓	✓	✓	✓	✓
	Intel Xeon E-2200 series	✗	✗	✗	✓	✓	✓	✓
FC640, M640, M640 for VRTX	Intel Xeon SP (81xx, 61xx, 51xx, 41xx, 31xx) series	✗	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (82xx, 62xx, 52xx, 42xx, 32xx) series	✗	✗	✓	✓	✓	✓	✓
T640	Intel Xeon SP (81xx, 61xx, 51xx, 41xx, 31xx) series	✗	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (82xx, 62xx, 52xx, 42xx, 32xx) series	✗	✗	✓	✓	✓	✓	✓
T440	Intel Xeon SP (51xx, 61xx, 41xx, 31xx) series	✗	✓	✓	✓	✓	✓	✓
	Intel Xeon SP (62xx, 52xx, 42xx, 32xx) series	✗	✗	✓	✓	✓	✓	✓
T340	Intel Xeon E-2100 series	✗	✗	✓	✓	✓	✓	✓
	Intel Xeon E-2200 series	✗	✗	✗	✓	✓	✓	✓
T140	Intel Xeon E-2100 series	✗	✗	✓	✓	✓	✗	✓
	Intel Xeon E-2200 series	✗	✗	✗	✓	✓	✗	✓

The following table lists the supported processors for yx3x Dell EMC PowerEdge servers.

Table 3. yx3x PowerEdge servers—compatibility matrix

yx3x PowerEdge servers	Processor series	Supported releases				Boot device		
		ESXi 6.5	ESXi 6.5 U1	ESXi 6.5 U2	ESXi 6.5 U3	Hard drive	Flash (SD) card	BOSS S1
R930	Intel Xeon E7-88xx/48xx v3 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E7-88xx/48xx v4 series	✓	✓	✓	✓	✓	✓	✗

yx3x PowerEdge servers	Processor series	Supported releases				Boot device		
		ESXi 6.5	ESXi 6.5 U1	ESXi 6.5 U2	ESXi 6.5 U3	Hard drive	Flash (SD) card	BOSS S1
R830	Intel Xeon E5-46xx v4 series	✓	✓	✓	✓	✓	✓	X
R730, R730xd, R630	Intel Xeon E5-26xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-26xx v4 series	✓	✓	✓	✓	✓	✓	X
R530, R430	Intel Xeon E5-26xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-26xx v4 series	✓	✓	✓	✓	✓	✓	X
R330	Intel Xeon E3-1200 v6 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E3-1200 v5 series	✓	✓	✓	✓	✓	✓	X
R230	Intel Xeon E3-1200 v6 series	✓	✓	✓	✓	✓	X	X
	Intel Xeon E3-1200 v5 series	✓	✓	✓	✓	✓	X	X
FC830, M830, M830 for VRTX	Intel Xeon E5-46xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-46xx v4 series	✓	✓	✓	✓	✓	✓	X
FC630, M630, M630 for VRTX	Intel Xeon E5-26xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-26xx v4 series	✓	✓	✓	✓	✓	✓	X
FC430	Intel Xeon E5-26xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-26xx v4 series	✓	✓	✓	✓	✓	✓	X
T630	Intel Xeon E5-26xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-26xx v4 series	✓	✓	✓	✓	✓	✓	X
T430	Intel Xeon E5-26xx v3 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E5-26xx v4 series	✓	✓	✓	✓	✓	✓	X
T330	Intel Xeon E3-1200 v6 series	✓	✓	✓	✓	✓	✓	X
	Intel Xeon E3-1200 v5 series	✓	✓	✓	✓	✓	✓	X
T130	Intel Xeon E3-1200 v6 series	✓	✓	✓	✓	✓	X	X
	Intel Xeon E3-1200 v5 series	✓	✓	✓	✓	✓	X	X

The following table lists the supported processors for yx2x Dell EMC PowerEdge servers.

Table 4. yx2x PowerEdge servers—compatibility matrix

yx2x PowerEdge servers	Processor series	Supported releases				Boot device		
		ESXi 6.5	ESXi 6.5 U1	ESXi 6.5 U2	ESXi 6.5 U3	Hard drive	Flash (SD) card	BOSS S1
R920	Intel Xeon E7-88xx/48xx v2 series	✓	✓	✓	✓	✓	✓	✗
R820	Intel Xeon E5-46xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-46xx series	✓	✓	✓	✓	✓	✓	✗
R720, R720xd, R620	Intel Xeon E5-26xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-26xx series	✓	✓	✓	✓	✓	✓	✗
R520, R420	Intel Xeon E5-24xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-24xx series	✓	✓	✓	✓	✓	✓	✗
R320	Intel Xeon E5-24xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-24xx series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-14xx v2 series	✓	✓	✓	✓	✓	✓	✗
R220	Intel Xeon E3-1200-v3 series	✓	✓	✓	✓	✓	✗	✗
M820, M820 for VRTX	Intel Xeon E5-46xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-46xx series	✓	✓	✓	✓	✓	✓	✗
M620, M620 for VRTX	Intel Xeon E5-26xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-26xx series	✓	✓	✓	✓	✓	✓	✗
M520, M420, M520 for VRTX	Intel Xeon E5-24xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-24xx series	✓	✓	✓	✓	✓	✓	✗
T620	Intel Xeon E5-26xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-26xx series	✓	✓	✓	✓	✓	✓	✗
T420, T320	Intel Xeon E5-24xx v2 series	✓	✓	✓	✓	✓	✓	✗
	Intel Xeon E5-24xx series	✓	✓	✓	✓	✓	✓	✗

Dell EMC PowerEdge servers—supported I/O controllers

The following tables lists the supported I/O controllers for Dell EMC PowerEdge servers.

NOTE: The PowerEdge servers are represented using the generic naming convention. To identify the range of server models, see [Identifying the series of your Dell EMC PowerEdge servers](#).

Table 5. Dell EMC yx5x PowerEdge servers—supported I/O controllers

yx5x PowerEdge servers	I/O Controller	Manufacturer	Specification	DPN*
C6525, R7525, R7515, R6525, R6515	USB 3.0 Controller	Dell EMC	16 GB SD card	FH2KP PKN2D
		Dell EMC	32 GB SD card	G4VKH KNJMC
		Dell EMC	64 GB SD card	6R6N4 HN59Y

Table 6. Dell EMC yx4x PowerEdge servers—supported I/O controllers

yx4x PowerEdge servers	I/O Controller	Manufacturer	Specification	DPN*
R940, R940xa, R840, R740, R740xd, R740xd2, R640, R540, R440, FC640, M640, T640, T440, M640 for VRTX, MX840c, MX740c	Intel C621	Dell EMC	16 GB SD card	PKN2D R7YTT FH2KP
		Dell EMC	32 GB SD card	KNJMC OPD22 G4VKH
		Dell EMC	64 GB SD card	HN59Y 7XDNW 6R6N4
R7425, R7415, R6415	USB 3.0 Controller	Dell EMC	16 GB SD card	PKN2D R7YTT FH2KP
		Dell EMC	32 GB SD card	KNJMC OPD22 G4VKH
		Dell EMC	64 GB SD card	HN59Y 7XDNW 6R6N4

yx4x PowerEdge servers	I/O Controller	Manufacturer	Specification	DPN*
R340, R240, T340	Intel C246	Dell EMC	16 GB SD card	PKN2D R7YTT FH2KP
		Dell EMC	32 GB SD card	KNJMC 0PD22 G4VKH
		Dell EMC	64 GB SD card	HN59Y 7XDNW 6R6N4

The following table lists the yx3x Dell EMC PowerEdge servers with the supported processors.

Table 7. yx3x PowerEdge servers—supported I/O controllers

yx3x PowerEdge servers	I/O Controller	Manufacturer	Specification	DPN*
R930, R730, R630, R530, R430, M830, M630, FC830, FC630, FC430, T630, T430, M830 for VRTX, M630 for VRTX	Intel C610	Dell EMC	8 GB SD card	W1T9G
		Dell EMC	16 GB SD card	7GH0Y H1H8M GX886
		Dell EMC	32 GB SD card	XVP8P X5MJ8
		Dell EMC	64 GB SD card	1X6VF 0M36C
R330, T330	Intel C632	Dell EMC	8 GB SD card	W1T9G
		Dell EMC	16 GB SD card	7GH0Y H1H8M GX886
		Dell EMC	32 GB SD card	XVP8P X5MJ8
		Dell EMC	64 GB SD card	1X6VF 0M36C

The following table lists the yx2x Dell EMC PowerEdge servers with the supported processors.

Table 8. yx2x PowerEdge servers—supported I/O controllers

yx2x PowerEdge servers	I/O Controller	Manufacturer	Specification	DPN*
R920, R820, R720, R720xd, R620, R520, R420, R320, M820, M620, M520, M420, T620, T420, T320, M820 for VRTX, M520 for VRTX, M620 for VRTX	Intel C600	Dell EMC	8 GB SD card	W1T9G
		Dell EMC	16 GB SD card	7GH0Y H1H8M
		Dell EMC	32 GB SD card	XVP8P

yx2x PowerEdge servers	I/O Controller	Manufacturer	Specification	DPN*
		Dell EMC	64 GB SD card	1X6VF

*Dell EMC Part Number (DPN) is an alphanumeric code on the barcode of your SD card.

Dell EMC PowerEdge servers—supported RAID controllers

The following tables lists the supported RAID controllers for Dell EMC PowerEdge servers.

NOTE: The PowerEdge servers are represented using the generic naming convention. To identify the range of server models, see [Identifying the series of your Dell EMC PowerEdge servers](#).

Table 9. yx5x PowerEdge servers—PERC 10 controllers compatibility matrix

PowerEdge servers / PERC Controller	C6525	R7525	R7515	R6525	R6515
PERC H745 Front	X	✓	X	✓	X
PERC H745 adapter	✓	✓	X	X	X
PERC H345 Front	X	✓	X	✓	X
PERC H345 adapter	✓	✓	X	X	X
PERC HBA345 Front	X	✓	X	✓	X
PERC HBA345 adapter	✓	✓	X	X	X
PERC H745P MX adapter	X	X	X	X	X
PERC H840 adapter	X	✓	✓	✓	✓
PERC H740P adapter	X	X	X	X	X
PERC H740P mini monolithic	X	X	✓	X	✓
PowerEdge MX5016s	X	X	X	X	X

Table 10. yx4x PowerEdge servers—PERC 10 controllers compatibility matrix

PowerEdge servers / PERC Controller	R940	R940 xa	R840	R740	R740x d	R740x d2	R640	R540	R440	M640	MX840 c	MX740 c
PERC H745 Front	X	X	X	X	X	X	X	X	X	X	X	X
PERC H745 adapter	X	X	X	X	X	X	X	X	X	X	X	X
PERC H345 Front	X	X	X	X	X	X	X	X	X	X	X	X
PERC H345 adapter	X	X	X	X	X	X	X	X	X	X	X	X
PERC HBA345 Front	X	X	X	X	X	X	X	X	X	X	X	X
PERC HBA345 adapter	X	X	X	X	X	X	X	X	X	X	X	X
PERC H745P MX adapter	X	X	X	X	X	X	X	X	X	X	✓	✓
PERC H840 adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X

PowerEdge servers / PERC Controller	R940	R940 xa	R840	R740	R740xd	R740xd2	R640	R540	R440	M640	MX840c	MX740c
PERC H740P adapter	✓	✓	✓	✓	✓	X	✓	✓	✓	X	X	X
PERC H740P mini monolithic	X	X	X	✓	✓	X	✓	X	X	X	X	X
PowerEdge MX5016s	X	X	X	X	X	X	X	X	X	X	✓	✓

The following table lists the yx4x PowerEdge servers—PERC 10 controllers compatibility matrix.

Table 11. yx4x PowerEdge servers—PERC 10 controllers compatibility matrix

PowerEdge servers / PERC Controller	M640 for VRTX	FC640	T640	T440	T340	T140	R340	R240	R7425	R7415	R6415
PERC H745 Front	X	X	X	X	X	X	X	X	X	X	X
PERC H745 adapter	X	X	X	X	X	X	X	X	X	X	X
PERC H345 Front	X	X	X	X	X	X	X	X	X	X	X
PERC H345 adapter	X	X	X	X	X	X	X	X	X	X	X
PERC HBA345 Front	X	X	X	X	X	X	X	X	X	X	X
PERC HBA345 adapter	X	X	X	X	X	X	X	X	X	X	X
PERC H745P MX adapter	X	X	X	X	X	X	X	X	X	X	X
PERC H840 adapter	X	X	✓	✓	X	X	X	X	✓	✓	✓
PERC H740P adapter	X	X	✓	✓	X	X	X	X	✓	X	X
PERC H740P mini monolithic	X	X	X	X	X	X	X	X	X	✓	✓
PowerEdge MX5016s	X	X	X	X	X	X	X	X	X	X	X

The following table lists the PowerEdge servers—PERC 9 controllers compatibility matrix.

Table 12. yx5x PowerEdge servers—PERC 9 controllers compatibility matrix

PowerEdge servers / PERC Controller	C6525	R7525	R7515	R6525	R6515
PERC H730P MX adapter	X	X	X	X	X
PERC H730P adapter	X	X	X	X	X
PERC H730P mini monolithic	X	X	✓	X	✓
PERC H730P mini blades	X	X	X	X	X
PERC H730 adapter	X	X	X	X	X
PERC H730 mini monolithic	X	X	X	X	X
PERC H730 mini blades	X	X	X	X	X

PowerEdge servers / PERC Controller	C6525	R7525	R7515	R6525	R6515
PERC H330 adapter	X	X	X	X	X
PERC H330 mini monolithic	X	X	✓	X	✓
PERC H330 mini blades	X	X	✓	X	✓
PERC H830 adapter	X	X	X	X	X
PERC HBA330 adapter	X	X	X	X	X
PERC HBA330 MX adapter	X	X	X	X	X
PERC HBA330 MMZ adapter	X	X	X	X	X
PERC HBA330 Mini-Mono	X	X	✓	X	✓
12 Gbps SAS HBA adapter	X	✓	X	✓	X
FD33xS-PERC	X	X	X	X	X
FD33xD-PERC	X	X	X	X	X
PowerEdge MX5016s	X	X	X	X	X
Shared PERC8	X	X	X	X	X
Shared PERC8 External	X	X	X	X	X

Table 13. yx4x PowerEdge servers—PERC 9 controllers compatibility matrix

PowerEdge servers / PERC Controller	R940	R940xa	R840	R740	R740xd	R740xd2	R640	R540	R440	M640	MX840c	MX740c
PERC H730P MX adapter	X	X	X	X	X	X	X	X	X	X	✓	✓
PERC H730P adapter	✓	✓	✓	✓	✓	X	✓	✓	✓	X	X	X
PERC H730P mini monolithic	X	X	X	✓	✓	✓	✓	X	X	X	X	X
PERC H730P mini blades	X	X	X	X	X	X	X	X	X	✓	X	X
PERC H730 adapter	X	X	X	X	X	X	X	X	X	X	X	X
PERC H730 mini monolithic	X	X	X	X	X	X	X	X	X	X	X	X
PERC H730 mini blades	X	X	X	X	X	X	X	X	X	X	X	X
PERC H330 adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X
PERC H330 mini monolithic	X	X	X	✓	✓	X	✓	X	X	X	X	X
PERC H330 mini blades	X	X	X	X	X	X	X	X	X	✓	X	X
PERC H830 adapter	X	X	X	X	X	X	X	X	X	X	X	X
PERC HBA330 adapter	X	✓	✓	✓	✓	X	✓	✓	✓	X	X	X
PERC HBA330 MX adapter	X	X	X	X	X	X	X	X	X	X	✓	✓
PERC HBA330 MMZ adapter	X	X	X	X	X	X	X	X	X	X	✓	✓
PERC HBA330 Mini-Mono	X	X	X	✓	✓	✓	✓	X	X	X	X	X

PowerEdge servers / PERC Controller	R940	R940xa	R840	R740	R740xd	R740xd2	R640	R540	R440	M640	MX840c	MX740c
12 Gbps SAS HBA adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	X	X
FD33xS-PERC	X	X	X	✓	✓	X	✓	X	X	X	X	X
FD33xD-PERC	X	X	X	X	X	X	X	X	X	X	X	X
PowerEdge MX5016s	X	X	X	X	X	X	X	X	X	X	✓	✓
Shared PERC8	X	X	X	X	X	X	X	X	X	X	X	X
Shared PERC8 External	X	X	X	X	X	X	X	X	X	X	X	X

The following table lists the yx4x PowerEdge servers—PERC 9 controllers compatibility matrix.

Table 14. yx4x PowerEdge servers—PERC 9 controllers compatibility matrix

PowerEdge servers / PERC Controller	M640 for VRTX	FC640	T640	T440	T340	T140	R340	R240	R7425	R7415	R6415
PERC H730P MX adapter	X	X	X	X	X	X	X	X	X	X	X
PERC H730P adapter	X	X	✓	✓	✓	✓	✓	✓	✓	X	X
PERC H730P mini monolithic	X	X	X	X	X	X	X	X	X	✓	✓
PERC H730P mini blades	✓	✓	X	X	X	X	X	X	X	X	X
PERC H730 adapter	X	X	X	X	X	X	X	X	X	X	X
PERC H730 mini monolithic	X	X	X	X	X	X	X	X	X	X	X
PERC H730 mini blades	X	X	X	X	X	X	X	X	X	X	X
PERC H330 adapter	X	X	✓	✓	✓	✓	✓	✓	✓	X	X
PERC H330 mini monolithic	X	X	X	X	X	X	X	X	X	✓	✓
PERC H330 mini blades	✓	✓	X	X	X	X	X	X	X	X	X
PERC H830 adapter	X	X	X	X	X	X	X	X	X	X	X
PERC HBA330 adapter	X	X	✓	✓	✓	✓	✓	✓	✓	X	X
PERC HBA330 MX adapter	X	X	X	X	X	X	X	X	X	X	X
PERC HBA330 MMZ adapter	X	X	X	X	X	X	X	X	X	X	X
PERC HBA330 Mini-Mono	X	X	X	X	✓	✓	✓	✓	X	✓	✓
12 Gbps SAS HBA adapter	X	X	✓	✓	✓	✓	✓	✓	✓	✓	✓
PowerEdge MX5016s	X	X	X	X	X	X	X	X	X	X	X

PowerEdge servers / PERC Controller	M640 for VRTX	FC640	T640	T440	T340	T140	R340	R240	R7425	R7415	R6415
FD33xS-PERC	X	✓	X	X	X	X	X	X	X	X	X
FD33xD-PERC	X	✓	X	X	X	X	X	X	X	X	X
Shared PERC8	✓	X	X	X	X	X	X	X	X	X	X
Shared PERC8 External	✓	X	X	X	X	X	X	X	X	X	X

The following table lists the yx3x PowerEdge servers—PERC 9 controllers compatibility matrix.

Table 15. yx3x PowerEdge servers—PERC 9 controllers compatibility matrix

PowerEdge servers / PERC Controller	R930	R830	R920	R730	R730xd	R630
PERC H730P adapter	✓	✓	✓	✓	X	✓
PERC H730P MX adapter	X	X	X	X	X	X
PERC H730P mini monolithic	X	X	X	✓	✓	✓
PERC H730P mini blades	X	X	X	X	X	X
PERC H730 adapter	X	✓	X	X	X	✓
PERC H730 mini monolithic	X	X	X	✓	✓	✓
PERC H730 mini blades	X	X	X	X	X	X
PERC H330 adapter	✓	✓	X	X	X	✓
PERC H330 mini monolithic	X	X	X	✓	✓	✓
PERC H330 mini blades	X	X	X	X	X	X
PERC H830 adapter	✓	✓	X	✓	✓	✓
PERC HBA330 adapter	✓	✓	X	X	X	X
PERC HBA330 MX adapter	X	X	X	X	X	X
PERC HBA330 MMZ adapter	X	X	X	X	X	X
PERC HBA330 Mini-Mono	X	X	X	✓	✓	✓
12 Gbps SAS HBA adapter	✓	✓	X	✓	✓	✓
FD33xS-PERC	X	X	X	X	X	X
FD33xD-PERC	X	X	X	X	X	X
PowerEdge MX5016s	X	X	X	X	X	X
Shared PERC8	X	X	X	X	X	X
Shared PERC8 External	X	X	X	X	X	X

The following table lists the yx3x PowerEdge servers—PERC 9 controllers compatibility matrix.

Table 16. yx3x PowerEdge servers—PERC 9 controllers compatibility matrix

PowerEdge servers / PERC Controller	R530	R430	R330	R230	M830	M830 for VRTX	M630	M630 for VRTX
PERC H730P MX adapter	X	X	X	X	X	X	X	X
PERC H730P adapter	✓	✓	X	X	X	X	X	X
PERC H730P mini monolithic	✓	✓	X	X	X	X	X	X
PERC H730P mini blades	X	X	X	X	✓	✓	✓	✓
PERC H730 adapter	✓	✓	✓	✓	X	X	X	X
PERC H730 mini monolithic	✓	✓	X	X	X	X	X	X
PERC H730 mini blades	X	X	X	X	✓	✓	✓	✓
PERC H330 adapter	✓	✓	✓	✓	X	X	X	X
PERC H330 mini monolithic	✓	✓	X	X	X	X	X	X
PERC H330 mini blades	X	X	X	X	✓	✓	✓	✓
PERC H830 adapter	✓	✓	✓	✓	X	X	X	X
PERC HBA330 MX adapter	X	X	X	X	X	X	X	X
PERC HBA330 MMZ adapter	X	X	X	X	X	X	X	X
PERC HBA330 adapter	✓	X	✓	✓	X	X	X	X
PERC HBA330 Mini-Mono	✓	✓	X	X	X	X	X	X
12 Gbps SAS HBA adapter	✓	✓	✓	✓	X	X	X	X
FD33xS-PERC	X	X	X	X	X	X	X	X
FD33xD-PERC	X	X	X	X	X	X	X	X
PowerEdge MX5016s	X	X	X	X	X	X	X	X
Shared PERC8	X	X	X	X	X	✓	X	✓
Shared PERC8 External	X	X	X	X	X	✓	X	✓

The following table lists the yx3x PowerEdge servers—PERC 9 controllers compatibility matrix.

Table 17. yx3x PowerEdge servers—PERC 9 controllers compatibility matrix

PowerEdge servers / PERC Controller	T630	T430	T330	T130	FC830	FC630	FC430
PERC H730P MX adapter	X	X	X	X	X	X	X
PERC H730P adapter	✓	✓	X	X	X	X	X
PERC H730P mini monolithic	X	X	X	X	X	X	X
PERC H730P mini blades	X	X	X	X	✓	✓	X

PowerEdge servers / PERC Controller	T630	T430	T330	T130	FC830	FC630	FC430
PERC H730 adapter	✓	✓	✓	✓	✗	✗	✗
PERC H730 mini monolithic	✗	✗	✗	✗	✗	✗	✗
PERC H730 mini blades	✗	✗	✗	✗	✓	✓	✗
PERC H330 adapter	✓	✓	✓	✓	✗	✗	✗
PERC H330 mini monolithic	✗	✗	✗	✗	✗	✗	✗
PERC H330 mini blades	✗	✗	✗	✗	✓	✓	✗
PERC H830 adapter	✓	✓	✓	✓	✗	✗	✗
PERC HBA330 MX adapter	✗	✗	✗	✗	✗	✗	✗
PERC HBA330 MMZ adapter	✗	✗	✗	✗	✗	✗	✗
PERC HBA330 adapter	✓	✓	✓	✓	✗	✗	✗
PERC HBA330 Mini-Mono	✗	✗	✗	✗	✗	✗	✗
12 Gbps SAS HBA adapter	✓	✓	✓	✓	✗	✗	✗
FD33xS-PERC	✗	✗	✗	✗	✓	✓	✓
FD33xD-PERC	✗	✗	✗	✗	✓	✓	✓
PowerEdge MX5016s	✗	✗	✗	✗	✗	✗	✗
Shared PERC8	✗	✗	✗	✗	✗	✗	✗
Shared PERC8 External	✗	✗	✗	✗	✗	✗	✗

The following table lists the yx2x PowerEdge servers—PERC 8 controllers compatibility matrix.

Table 18. yx2x PowerEdge servers—PERC 8 controllers compatibility matrix

PowerEdge servers / PERC Controller	R920	R820	R720xd	R720	R620	R520
PERC H710P adapter	✗	✓	✓	✓	✓	✗
PERC H710P mini monolithic	✗	✗	✓	✓	✓	✓
PERC H710P mini blades	✗	✗	✗	✗	✗	✗
PERC H710 adapter	✗	✓	✗	✗	✓	✗
PERC H710 mini monolithic	✗	✗	✓	✓	✓	✓
PERC H710 mini blades	✗	✗	✗	✗	✗	✗
PERC H310 adapter	✗	✓	✗	✗	✓	✓
PERC H310 mini monolithic	✗	✗	✓	✓	✓	✗
PERC H310 mini blades	✗	✗	✗	✗	✗	✗
PERC H810	✓	✓	✓	✓	✓	✓

PowerEdge servers / PERC Controller	R920	R820	R720xd	R720	R620	R520
6 Gbps SAS adapter	X	✓	✓	✓	✓	✓
Shared PERC8	X	X	X	X	X	X
Shared PERC8 External	X	X	X	X	X	X

The following table lists the yx2x PowerEdge servers—PERC 8 controllers compatibility matrix.

Table 19. yx2x PowerEdge servers—PERC 8 controllers compatibility matrix

PowerEdge servers / PERC Controller	R420	R320	R220	M820	M820 for VRTX	M620	M620 for VRTX
PERC H710P adapter	X	X	X	X	X	X	X
PERC H710P mini monolithic	X	X	X	X	X	X	X
PERC H710P mini blades	X	X	X	✓	✓	✓	✓
PERC H710 adapter	X	X	X	X	X	X	X
PERC H710 mini monolithic	X	X	X	X	X	X	X
PERC H710 mini blades	X	X	X	✓	✓	✓	✓
PERC H310 adapter	✓	✓	✓	X	X	X	X
PERC H310 mini monolithic	X	X	✓	X	X	X	X
PERC H310 mini blades	X	X	X	✓	✓	✓	✓
PERC H810	✓	✓	X	X	X	X	X
6 Gbps SAS adapter	✓	✓	X	X	X	X	X
Shared PERC8	X	X	X	X	✓	X	✓
Shared PERC8 External	X	X	X	X	✓	X	✓

The following table lists the yx2x PowerEdge servers—PERC 8 controllers compatibility matrix.

Table 20. yx2x PowerEdge servers—PERC 8 controllers compatibility matrix

PowerEdge servers / PERC Controller	M520	M520 for VRTX	M420	T620	T420	T320
PERC H710P adapter	X	X	X	✓	✓	✓
PERC H710P mini monolithic	X	X	X	X	X	X
PERC H710P mini blades	✓	✓	✓	X	X	X
PERC H710 adapter	X	X	X	✓	✓	✓
PERC H710 mini monolithic	X	X	X	X	X	X
PERC H710 mini blades	✓	✓	✓	X	X	X
PERC H310 adapter	X	X	X	✓	✓	✓
PERC H310 mini monolithic	X	X	X	X	X	X

PowerEdge servers / PERC Controller	M520	M520 for VRTX	M420	T620	T420	T320
PERC H310 mini blades	✓	✓	✓	x	x	x
PERC H810	x	x	x	✓	✓	✓
6 Gbps SAS adapter	x	x	x	✓	✓	✓
Shared PERC8	x	✓	x	x	x	x
Shared PERC8 External	x	✓	x	x	x	x

Dell EMC PowerEdge servers—VMware vCenter Server support

VMware vCenter Server is supported on a limited set of the Microsoft Windows operating systems. For more information about supported operating systems, see [VMware.com/support/pubs](https://www.vmware.com/support/pubs).

VMware vCenter Server is also available as a Linux vCenter appliance.

For more information about the Dell EMC PowerEdge servers compatibility with supported operating systems, see www.dell.com/ossupport.

Devices supported for PCIe Pass-Through

The following table lists the devices supported for PCIe Pass-Through.

Legend:

- WS - Windows Server
- SLES - SUSE Linux Enterprise Server
- SP - Service Pack
- RHEL - Red Hat Enterprise Linux

Table 21. Devices supported for Pass-Through

Server model with BIOS version	Controller model	Firmware version	Guest operating system (OS)	Guest OS Driver name	Guest OS Driver version used
FC630 (2.3.5)	QLogic 57810S Dual 10GE PCIe Standup Base-T CNA	08.07.25	WS 2012 R2 DC	Bnxnd60a	7.13.54.0
FC630 (2.3.5)	QLogic 57810S Dual 10GE PCIe Standup Base-T CNA	08.07.25	RHEL 7.2	Bnx2x	1.710.51-0
FC630 (2.3.5)	QLogic 57810S Dual 10GE PCIe Standup Base-T CNA	08.07.25	SLES 12 SP2	Bnx2x	1.710.51-0
T630 (2.3.4)	Intel X540 Adapter	17.5.10	WS 2012 R2 DC	ixi63x64	3.4.47.2
T630 (2.3.4)	Emulex OneConnect OCe14102-UX-D 2-port PCIe 10 GbE CNA	02.00.04	WS 2012 R2 DC	Ocnd64	11.0.243.18
T630 (2.3.4)	NVMe PM1725 800 GB PCIe SSD Controller	IPM0LD3Q	WS 2012 R2 DC	stornvme	6.3.9600.16421
T630 (2.3.4)	Emulex OneConnect OCe14102-UX-D 2-port PCIe 10 GbE CNA	02.00.04	RHEL 7.2	be2net	10.6.0.3r
T630 (2.3.4)	Intel X540 Adapter	17.5.10	RHEL 7.2	ixgbe	4.0.1-k
T630 (2.3.4)	NVMe PM1725 800 GB PCIe SSD Controller	IPM0LD3Q	RHEL 7.2	nvme	3.10.0-327
T630 (2.3.4)	NVMe PM1725 800 GB PCIe SSD Controller	IPM0LD3Q	SLES 12 SP2	nvme	4.4.21-69
T630 (2.3.4)	Intel X540 Adapter	17.5.10	SLES 12 SP2	ixgbe	4.0.1-k
T630 (2.3.4)	Emulex OneConnect OCe14102-UX-D 2-port PCIe 10 GbE CNA	02.00.04	SLES 12 SP2	be2net	11.0.0.0
M630P (2.3.5)	QLE2662 Dual Port FC16 HBA	08.00.15	WS 2012 R2 DC	ql2300i	9.1.11.3
M630P (2.3.5)	QLE2662 Dual Port FC16 HBA	08.00.15	RHEL 7.2	qla3xxx	v2.03.00-k5
M630P (2.3.5)	QLE2662 Dual Port FC16 HBA	08.00.15	SLES 12 SP2	qla3xxx	v2.03.00-k5
R930 (2.1.3)	Broadcom 57840 Adapter	08.07.25	WS 2012 R2 DC	bxnd60a	7.4.23.2
R930 (2.1.3)	Broadcom 57840 Adapter	08.07.25	RHEL 7.2	bnx2x	1.710.51-0
R930 (2.1.3)	Broadcom 57840 Adapter	08.07.25	SLES 12 SP2	bnx2x	1.710.51-0
R930 (2.1.3)	ConnectX-3 Dual Port 10 GbE DA/SFP + Network Adapter	02.36.50	WS 2012 R2 DC	mlx4eth63	4.4.13905

Server model with BIOS version	Controller model	Firmware version	Guest operating system (OS)	Guest OS Driver name	Guest OS Driver version used
R930 (2.1.3)	ConnectX-3 Dual Port 10 GbE DA/SFP + Network Adapter	02.36.50	RHEL 7.2	mlx4_core	2.2-1
R930 (2.1.3)	ConnectX-3 Dual Port 10 GbE DA/SFP + Network Adapter	02.36.50	SLES 12 SP2	mlx4_core	2.2-1
M630P (2.3.5)	Dell Express Flash NVMe SM1715 3.2 TB PCIe SSD Adapter by Samsung	IPV45D3Q	WS 2012 R2 DC	stornvme	6.3.9600.16421
M630P (2.3.5)	Dell Express Flash NVMe SM1715 3.2 TB PCIe SSD Adapter by Samsung	IPV45D3Q	RHEL 7.2	nvme	1.0
M630P (2.3.5)	Dell Express Flash NVMe SM1715 3.2 TB PCIe SSD Adapter by Samsung	IPV45D3Q	SLES 12 SP2	nvme	1.0

i **NOTE:** The preceding configuration is tested with Dell EMC customized image (6.5.0-4564106-A00).

i **NOTE:** Passthrough feature on NVMe devices is limited to the above listed devices, OS, and firmware in ESXi OS. For more information, see the [Dell PowerEdge Express Flash NVMe PCIe SSD 2.5 inch Small Form Factor User's Guide](#).

Getting help

Topics:

- [Contacting Dell EMC](#)
- [Related information for virtualization solutions](#)
- [Documentation resources](#)
- [Identifying the series of your Dell EMC PowerEdge servers](#)
- [Download drivers and firmware](#)
- [Documentation feedback](#)

Contacting Dell EMC

Dell EMC provides several online and telephone-based support and service options. Availability varies by country, region, and product, and some services may not be available in your area.

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

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

Related information for virtualization solutions

Table 22. Related information for virtualization solutions

If you need information about	See
Dell EMC VMware documentation	www.dell.com/virtualizationsolutions
OpenManage documentation	www.dell.com/openmanagemanuals
PowerEdge documentation	www.dell.com/poweredgemanuals
Basic configuration information for running ESXi on a Dell EMC PowerEdge server	Getting Started Guide at www.dell.com/virtualizationsolutions
<ul style="list-style-type: none"> • Information about downloading, installing, and configuring ESXi • Supported hardware configurations for running ESXi on a Dell EMC PowerEdge server 	Installation Instructions and Important Information Guide at www.dell.com/virtualizationsolutions
PowerEdge servers and compatibility with vMotion	VMware ESXi vMotion Support on Dell EMC PowerEdge Servers Compatibility Matrix at www.dell.com/virtualizationsolutions
PowerEdge and PowerVault compatibility information for running ESXi	VMware vSphere for Dell EMC PowerEdge Servers Compatibility Matrix at www.dell.com/virtualizationsolutions
Known issues and resolutions	VMware vSphere 6.5.x on Dell EMC PowerEdge Server Release Notes at www.dell.com/virtualizationsolutions
ESXi ISO image customization information	VMware ESXi on Dell EMC PowerEdge Systems Image Customization Information at www.dell.com/virtualizationsolutions

Technical support resources

- vmware.com/support

- Dell.com/support/home
- Dell.com/services

Discussion forums

- communities.vmware.com/community/vmtn
- [Dell Virtualization](#)
- [Wikis, Forums, Blogs, and Videos](#)
- [Dell Community](#)

Knowledge base



- kb.vmware.com/kb

 **NOTE:** For more information that is related to the VMware ESXi installation on Dell EMC PowerEdge servers, go to [Dell Virtualization](#).

Virtualization videos for Dell EMC PowerEdge servers

All the supported virtualization videos for Dell EMC PowerEdge servers are available in the [Supported Operating Systems for Dell PowerEdge servers playlist](#).

Table 23. Virtualization videos for Dell EMC PowerEdge servers

Video title	Links
Downloading the Dell EMC customized ESXi image from support site	www.youtube.com/watch?v=YnVxtkAkYTI
Downloading Dell EMC customized ESXi image from VMware website	www.youtube.com/watch?v=TnWyuYuk5k
OS Deployment (VMware ESXi)—Installing Using CD/DVD	www.youtube.com/watch?v=-EbufUS86zA
Enabling and Configuring Fault Resilient Memory on Dell EMC PowerEdge servers	www.youtube.com/watch?v=retSh-XIsK0
OS Deployment (VMware ESXi)—Installing on BOSS S1 device	www.youtube.com/watch?v=TB1loXpFFME
OS Deployment (VMware ESXi)—Installing on IDSMD	www.youtube.com/watch?v=EC-Xntg5mgw
To enable UEFI Secure Boot on VMware ESXi for Dell's 13th generation of PowerEdge servers	www.youtube.com/watch?v=LI9qIF9qV9I
 NOTE: This video is applicable for VMware ESXi 6.5.x and VMware ESXi 6.7.	
To enable UEFI Secure Boot on VMware ESXi for Dell EMC's 14th generation of PowerEdge servers	www.youtube.com/watch?v=ZZB_XyV0enY
 NOTE: This video is applicable for VMware ESXi 6.5.x and VMware ESXi 6.7.	

Documentation resources

This section provides information about the documentation resources for your server.

Table 24. Additional documentation resources for your server

Task	Document	Location
Setting up your server	For information about installing the server into a rack, see the Rack documentation included with your rack solution or the <i>Getting Started Guide</i> that is shipped with your server.	www.dell.com/poweredgemanuals

Task	Document	Location
	For information about turning on the server and the technical specifications of your server, see the <i>Getting Started Guide</i> that is shipped with your server.	www.dell.com/poweredgemanuals
Configuring your server	For information about the iDRAC features, configuring and logging in to iDRAC, and managing your server remotely, see the <i>Integrated Dell Remote Access Configuration Tool User's Guide</i>	www.dell.com/idracmanuals
	For information about installing the operating system, see operating system documentation.	www.dell.com/operatingsystemmanuals
	For information about understanding Remote Access Controller Admin (RACADM) subcommands and supported RACADM interfaces, see the <i>iDRAC RACADM CLI Guide</i> .	www.dell.com/idracmanuals
	For information about updating drivers and firmware, see Download drivers and firmware topic in this document.	www.dell.com/support/drivers
Managing your server	For information about server management software offered by Dell EMC, see the Dell EMC <i>Systems Management Overview Guide</i> .	www.dell.com/openmanagemanuals
	For information about setting up, using, and troubleshooting OpenManage, see the Dell EMC <i>OpenManage Server Administrator User's Guide</i> .	www.dell.com/openmanagemanuals
	For information about installing, using, and troubleshooting Dell EMC OpenManage Essentials, go to www.dell.com/openmanagemanuals > <i>OpenManage Essentials User's Guide</i> .	www.dell.com/openmanagemanuals
	For information about installing and using Dell SupportAssist, see the Dell EMC <i>SupportAssist Enterprise User's Guide</i> .	www.dell.com/serviceabilitytools
	For understanding the features of Dell EMC Lifecycle Controller (LC), see the <i>Lifecycle Controller User's Guide</i> .	www.dell.com/idracmanuals
	For information about partner programs enterprise systems management, see the <i>OpenManage Connections Enterprise Systems Management</i> documents.	www.dell.com/esmmanuals

Task	Document	Location
	For information about viewing inventory, performing configuration, and monitoring tasks, remotely turning on or off servers, and enabling alerts for events on servers and components using the Dell EMC Chassis Management Controller (CMC), see the <i>Chassis Management Controller User's Guide</i> .	www.dell.com/esmanuals
Working with the Dell EMC PowerEdge RAID controllers	For information about understanding the features of the Dell EMC PowerEdge RAID controllers (PERC) and deploying the PERC cards, see the Storage controller documentation.	www.dell.com/storagecontrollermanuals
Understanding event and error messages	For information about checking the event and error messages generated by the system firmware and agents that monitor server components, see the Dell EMC <i>Event and Error Message Reference Guide for 14th Generation Dell EMC PowerEdge Servers</i> .	www.dell.com/openmanagemanuals
Troubleshooting your system	For information about identifying and troubleshooting the PowerEdge server issues, see the <i>PowerEdge Servers Troubleshooting Guide</i> .	www.dell.com/poweredgemanuals
Configuring Dell PowerEdge VRTX shared storage for VMware vSphere environment	For information on configuring Dell PowerEdge VRTX shared storage for VMware vSphere environment, see Dell EMC White papers.	Configuring Dell PowerEdge VRTX shared storage for VMware vSphere Environment

Identifying the series of your Dell EMC PowerEdge servers

The PowerEdge series of servers from Dell EMC are divided into different categories on the basis of their configuration. For easier reference, they are referred to as YX2X, YX3X, YX4X, YX4XX, or YX5XX series of servers. The structure of the naming convention is described below:

The letter Y denotes the alphabets in the server model number. The alphabets denote the form factor of the server. The form factors are described below:

- Cloud (C)
- Flexible(F)
- Modular (M or MX)
- Rack(R)
- Tower(T)

The letter X denotes the numbers in the server model number. The numbers denote multiple items about the server.

- The first digit (denoted by X) denotes the value stream or class of the server.
 - 1-5—iDRAC basic
 - 6-9—iDRAC Express
- The second digit denotes the series of the server. It is retained in the server naming convention and not replaced by the letter X.
 - 0—series 10

- 1—series 11
- 2—series 12
- 3—series 13
- 4—series 14
- 5—series 15
- The third digit (denoted by X) denotes the number of processor sockets a series of server supports. This is applicable only from series 14 of PowerEdge servers.
 - 1—one socket server
 - 2—two socket server
- The last digit (denoted by X) always denotes the make of the processor as described below:
 - 0—Intel
 - 5—AMD

Table 25. PowerEdge servers naming convention and examples


YX3X servers	YX4X systems	YX4XX systems	YX5XX
PowerEdge M630	PowerEdge M640	PowerEdge R6415	PowerEdge R6515
PowerEdge M830	PowerEdge R440	PowerEdge R7415	PowerEdge R7515
PowerEdge T130	PowerEdge R540	PowerEdge R7425	PowerEdge R6525

Download drivers and firmware

It is recommended that you download and install the latest BIOS, drivers, and systems management firmware on your system.

Ensure that you clear the web browser cache before downloading the drivers and firmware.


1. Go to Dell.com/support/drivers.
2. In the **Drivers & Downloads** section, enter the Service Tag of your system in the **Enter a Dell Service Tag, Dell EMC Product ID, or Model** field, and then click **Submit**.

 **NOTE:** If you do not have the Service Tag, click **Detect PC** to allow the system to automatically detect your Service Tag.
3. Click **Drivers & Downloads**.
A list of applicable downloads is displayed.
4. Download the drivers or firmware to a USB drive, CD, or DVD.

Download Dell EMC customized ESXi image from Dell EMC support site

 **NOTE:** Ensure that you clear the web browser cache before downloading the drivers and firmware.

1. Go to Dell.com/support/drivers.
2. In the **Drivers & Downloads** section, enter the Service Tag of your system in the **Enter a Dell Service Tag, Dell EMC Product ID, or Model** box, and then click the right arrow button.

 **NOTE:** If you do not have the Service Tag, select **Detect PC** to allow the system to automatically detect your Service Tag, or click **Browse all products**, and then navigate to your product.
3. Click **Drivers & Downloads**.
The drivers that are applicable to your system are displayed.
4. In the **Operating System** list, select the appropriate VMware version.
5. In the **Category** list, select **Enterprise Solutions**.
The latest Dell EMC VMware ESXi customized images are displayed.
6. Click **Download**.

Download Dell EMC customized ESXi image from VMware site

 **NOTE:** Ensure that you clear the web browser cache before downloading the drivers and firmware.

 **NOTE:** You should be registered with my.vmware.com to be able to download drivers and firmware.

1. Go to my.vmware.com and login with your account credentials.
2. Select **View & Download products > All Products** and then click the **View Download Components** link of **VMware vSphere**.
3. Select the image version from the **Select Version** list.
4. Click **Custom ISOs**.
5. Expand the **OEM Customized Installer CDs** option and then click **Go to Downloads** for the image that you want to download.

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