DellEMC™ Enterprise Systems Rail Sizing and Rack Compatibility Matrix

This document provides mounting features and key dimensions of the rack rails used for mounting many DellEMC enterprise systems and peripheral devices in a rack enclosure.

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Introduction

This document provides information about the mounting features and key dimensions of the rack rails used for mounting many DellEMC™ enterprise systems and peripheral devices in a rack enclosure. This document also provides a compatibility summary for select DellEMC racks as well as some common third-party racks. Note that the product list is not all-inclusive and updates will be made as needed.

The dimensions provided in this document are for reference only. Some minor deviations due to manufacturing tolerances and variances should be expected.

DellEMC rail kits may not be compatible with racks from other vendors, however, all DellEMC rail kits are designed for compliance with the EIA-310-E specification for 19-inch racks.

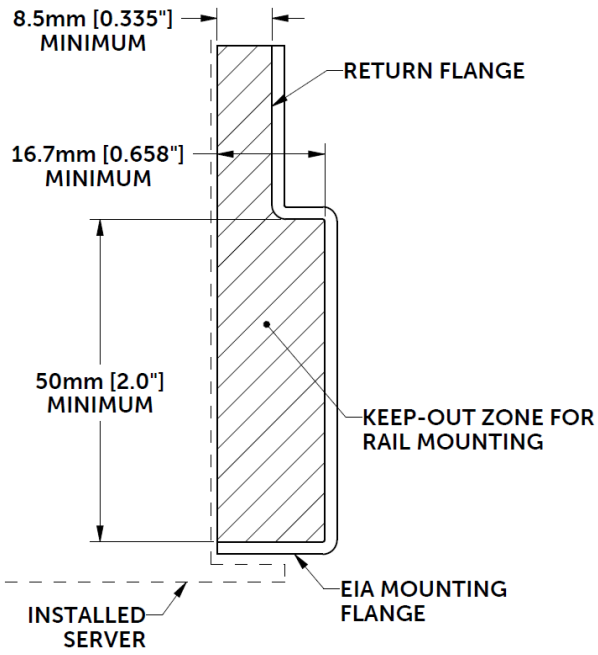
Considerations

Please pay attention to the footnotes indicated in the tables because they provide important information on using the rails in different racks and circumstances.

It is assumed that rack mount peripherals and cable bundles do not protrude into the space directly behind the systems.

Note that DellEMC rail kits with a Rail Identifier code have been designed to be compliant with the *Server System Infrastructure (SSI) Specification for Computer Server Cabinet Enclosures & Racks*, which specifies a minimum offset distance for return flanges on the rack mounting flanges to allow sufficient room for mounting the rail kits, as indicated in Figure 1. For more information about the *Server System Infrastructure (SSI) Specification for Computer Server Cabinet Enclosures & Racks*, see the SSI Forum at ssiforum.org.

Figure 1. Top view of right front EIA mounting flange

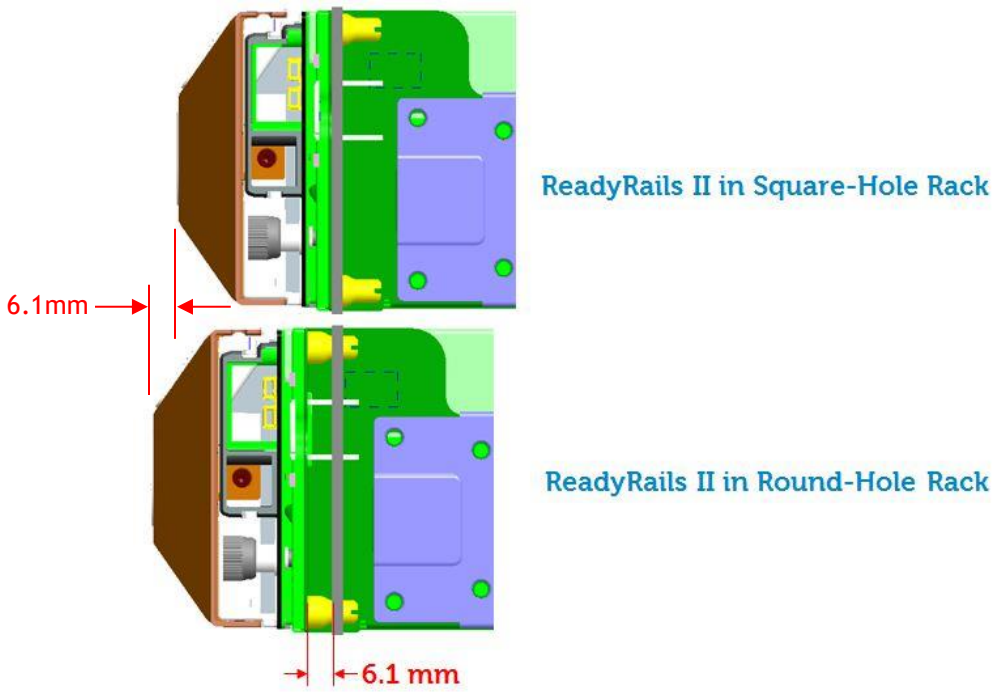


Some third-party racks may not meet this requirement, and although DellEMC has made extensive efforts to accommodate as many third-party racks as possible, it is not feasible to provide a solution for every circumstance.

Mounting interface

The ReadyRails™ II mounting interface supports tool-less installation in 4-post square-hole and unthreaded round-hole racks as well as native support for tooled installation in threaded-hole racks. Note that installing this mounting interface in a square-hole rack allows the bracket to be placed flush against the mounting post, while installation in a round-hole rack results in a slight offset of approx. 6 mm from the mounting post, which also results in an approx. 6 mm bezel offset; refer to Figure 2.

Figure 2. System offset for round-hole racks



The original **ReadyRails** mounting interface is used for both static and sliding rails, and supports tool-less installation in 4-post square-hole and unthreaded round-hole racks. Static ReadyRails kits also support tooled installation in threaded-hole racks and 2-post racks. When installed in unthreaded round-hole racks, the original ReadyRails will also have the 6 mm offset from the mounting post that was discussed in the previous ReadyRails II paragraph. In order to install sliding ReadyRails kits into a threaded-hole rack, adapter brackets are required. 1U and 2U adapter bracket kits are available that support systems ranging from 1U to 5U in height.

The adapter bracket kits include six brackets to accommodate different rail lengths, plus four sets of custom screws in 10-32, 12-24, M5 and M6 thread sizes. The design of the brackets has been optimized to limit the forward shift of the system in the rack to only 17.3 mm. Depending on the depth of the rack used and the position of the mounting rails within the rack, it may be necessary to remove the system's bezel in order to close the front door of the rack. For the front door to close with the system bezel installed, you need a minimum clearance of 58 mm between the back surface of the door panel and the front face of the EIA flange.

The **RapidRails™** mounting interface supports tool-less installation in 4-post square-hole racks only, while the **VersaRails™** mounting interface supports tooled installation in 4-post square-hole and unthreaded round-hole racks. Mounting the VersaRails in threaded-hole racks is not recommended and is not supported by DellEMC.

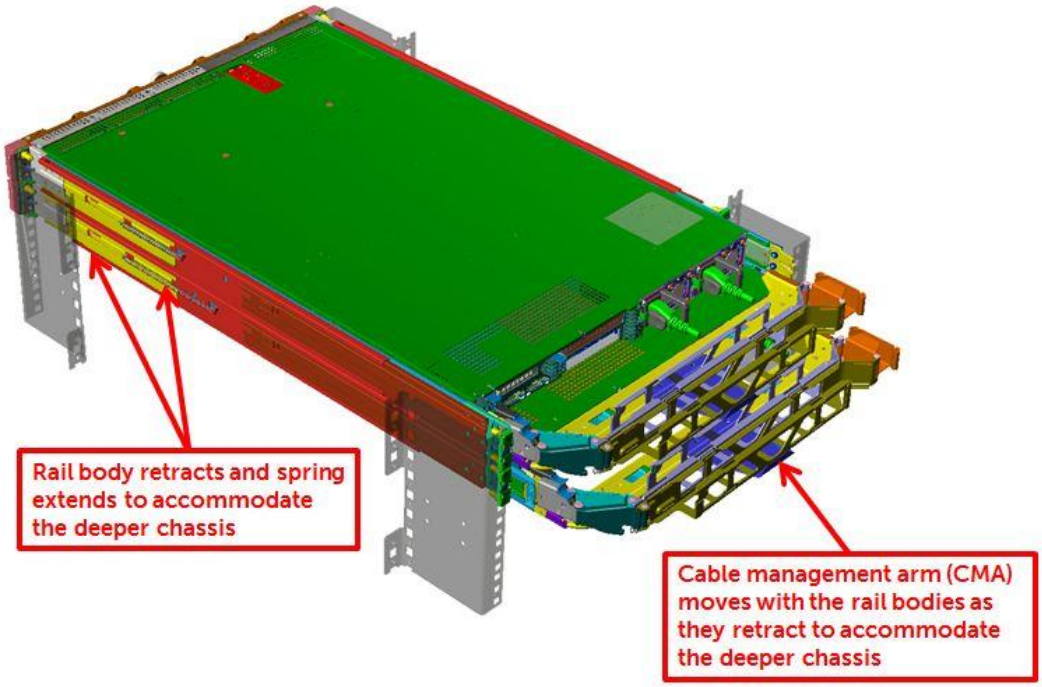
The **Generic** mounting interface encompasses all other mounting interfaces outside of the ones listed above. Unless indicated to be tool-less, tools are required for installation.

Rail types

Sliding rails allow you to fully extend the system out of the rack for service. Most sliding rails support Cable Management Arms (CMAs) which enable the system to be extended out of the rack without disconnecting data/power cables at the rear of the system.

For many systems, the 1U and 2U sliding rails have been standardized with a slim drop-in design that holds a wide system chassis to accommodate more features and functions. They also have a self-adjusting mechanism that accommodates different depths of systems, offering compatibility across multiple platform models. Refer to Figure 3 for an illustration of how the self-adjustment works.

Figure 3. ReadyRails II self-adjusting mechanism



Static rails do not support the ability to service the system in the rack and are not compatible with the CMA. However, they do offer more flexibility in the types of racks and installations supported.

Cable Management Solutions

To help manage the numerous cables associated with rack-mounted servers, a Cable Management Arm (CMA) or Strain Relief Bar (SRB) can be used. An optional CMA is offered with most sliding rails. CMAs attach on either the right or left side without tools.

SRBs are offered on select systems as an optional method for managing cables at the rear of the system due to the potential of a cable bundle size that exceeds the capacity of the CMA. The rail depth with a SRB is significantly less than that of a CMA, which in many cases, enables fitment of the rails in shallow racks.

Note that using a CMA or SRB with a deeper system may interfere with access to power distribution units (PDUs) in certain racks. If your configuration does not require CMA support, you can remove the outer CMA mounting brackets from some of the sliding rail kits to reduce the overall length of the rails and eliminate potential interference with rear-mounted PDUs or the rack rear door.

Backward compatibility

Some systems may offer backward compatibility with the rail kits from previous-generation systems. This is not always possible, because changes to chassis features, dimensions or weight can prevent older rail kits from being used with newer systems. Please refer to Table 1 for cross-generational compatibility of DellEMC servers and rails.

Table 1. DellEMC server rails compatibility chart

14th Generation product	Backward compatibility with 13th generation rails/CMAs		
	Sliding rails	CMA	Static rails
R440	X	✓	✓
R540/R540xd	✓	✓	✓
R640	✓	✓	✓
R740/R740xd	✓	✓	✓
R840/940xa	X	X	X
R940	X	✓	N/A
C4140	N/A	N/A	✓
C64xx	N/A	N/A	✓
T440	X	✓	N/A
T640	✓	✓	N/A

13th Generation product	Backward compatibility with 12th generation rails/CMAs		
	Sliding rails	CMA	Static rails
R230	N/A	N/A	✓
R330	✓	✓	✓
R430	✓	✓	✓
R530	✓	✓	✓
R630	✓	✓	✓
R730/R730xd	✓	✓	✓
R830	✓	✓	✓
R930	✓	✓	N/A
T330	✓	✓	N/A

T430	✓	✓	**N/A**
T630	X	✓	**N/A**

12th Generation product	Backward compatibility with 11th generation rails/CMAs		
	Sliding rails	CMA	Static rails
R220	**N/A**	**N/A**	✓ (R210 II)
R320	✓	✓★	✓
R420	✓	✓★	✓
R520	✓	✓★	✓
R620	X	X	X
R720/R720xd	X	X	X
R820	X	X	**N/A**
R920	X	X	**N/A**
T320	✓ (T610)	✓ (T610)	**N/A**
T420	✓ (T610)	✓ (T610)	**N/A**
T620	✓	✓	**N/A**

✓ - Compatible X – Not compatible
*Only with the previous generation sliding rails

Definitions

Rail identifier is a two-character code used on some rail kits to indicate compatibility between rails and systems. The two-character code consists of a letter followed by a one or two digit number. It is typically located on a front inside surface on both the left and right rails. If there is a component of the rail kit that is attached to the chassis prior to installing the system into a rack, such as with the stab-in style of static rails, the identifier is located closer to the center of the component.

Mounting interface describes the type of rail bracket design used for mounting the rail in the rack.

Rail adjustability range represents the allowable distance between the outside-facing surfaces of the front and rear mounting posts of the rack. This does not include the portion of the rail kit that may extend beyond the mounting posts.

Rail depth represents the minimum depth of the rail as measured from the rack front mounting posts when the rail rear bracket is positioned all the way forward. The rail may extend beyond the rear bracket, particularly for sliding rail kits to support CMA or SRB attachment.

Table 2. DellEMC rail sizing matrix

	Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
					4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
					Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
SERVERS	PowerEdge™	R320/R330/R420/R430 R620 (8-HDD) R630 (8-HDD) R640 (8-HDD)	A7	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	631	868	617	861	631	883	720[b]	845
			A8	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	608	879	594	872	604	890	622	-
			A10	Generic Tool-less	Sliding	✓	✓	✓	X	X	559	940	559	940	559	940	720[b]	845
		R620 (10-HDD) R630 (10/24-HDD) R640 (4-HDD/10-HDD)	A7	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	681	868	667	861	681	883	770[b]	895
			A8	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	608	879	594	872	604	890	622	-
			A10	Generic Tool-less	Sliding	✓	✓	✓	X	X	559	940	559	940	559	940	770[b]	895
		R440/R6415	A8	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	608	879	594	872	604	890	622	-
			A11	Generic Tool-less	Sliding	✓	✓	✓	X	X	559	940	559	940	559	940	720[b]	845
		R520/R530/R540/R540xd R720/R720xd/R730/R730xd R740/R740xd/R7415/R7425	B6	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	631	868	617	861	631	883	714[b]	845
			B4	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	608	879	594	872	608	890	622	-
			B13	Generic Tool-less	Sliding	✓	✓	✓	X	X	559	940	559	940	559	940	714[b]	845
		R820/R830	B6	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	676	868	662	861	676	883	759[b]	890
			B4	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	608	879	594	872	608	890	622	-
			B13	Generic Tool-less	Sliding	✓	✓	✓	X	X	559	940	559	940	559	940	714[b]	845
		R840	B15	Generic Tool-less	Sliding	✓	✓	✓	X	X	559	940	559	940	559	940	847	(900/922[l])
		R920/R930	B8	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	686	883	674	876	686	898	794[b]	883(834)
		R940	B12	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	600	894	586	887	600	909	773[b]	926(877)

DellEMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
				4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
				Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
R940xa	B16	Generic Tool-less	Sliding	✓	✓	✓	X	X	585	926	585	926	585	926	842	(898/921[l])
FX2/FX2s	B10	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	677	815	665	809	677	830	836	888
	B11	ReadyRails II	Static	✓	✓	✓[a,c]	X	X	644	916	632	910	644	930	828	-
C4130/C4140	A9	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	643	916	631	910	643	930	766	-
T630/T640	C4	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	686	756	672	749	686	771	756	840
T320/T330/T420/T430/T440 T620	C2	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	686	756	672	749	686	771	760	840
VRTX	C3	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	608	915	594	908	608	930	756	845
R210/R210 II R220	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
	A6	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	508[j]	751	494[j]	744	519[j]	762	515[j] 376[k]	-
R230	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
R310/R410/R415	A3	ReadyRails	Sliding	✓	✓	✓[e]	X	X	686	883	672	876	651	897	714[b]	835
	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
R510/R515	B3	ReadyRails	Sliding	✓	✓	✓[f]	X	X	686	883	672	876	651	897	714[b]	845
	B4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	608	890	622	-
R610	A1	ReadyRails	Sliding	✓	✓	✓[e]	X	X	692	756	678	749	657	770	768[b]	887
	A2	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	588	828	574	821	592	846	608	-
R710	B1	ReadyRails	Sliding	✓	✓	✓[f]	X	X	692	756	678	749	657	770	751	840
	A2	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	588	828	574	821	592	846	608	-
R715/R810 R815/R910	B2	ReadyRails	Sliding	✓	✓	✓[f]	X	X	686	883	672	876	651	897	755[b]	883
T610/T710	C1	ReadyRails	Sliding	✓	✓	✓[f]	X	X	692	756	678	749	657	770	760	840
M1000e	-	RapidRails	Static	✓	X	X	X	X	712	755	-	-	-	-	703	-
	-	VersaRails	Static	✓	✓	X	X	X	706	755	706	755	-	-	703	-

		Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
						4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
						Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
	PowerEdge C	C1100	-	Generic Tool-less	Sliding	✓	✓	X	X	X	665	950	665	950	-	-	685	-
		C2100	-	Generic	Sliding	✓	✓	✓	X	X	664	1110	664	1110	664	1110	720	-
		C410x	-	VersaRails	Sliding	✓	✓	X	X	X	737	972	737	972	-	-	734	-
		C5xxx	-	Generic Tool-less	Static	✓	✓	X	X	X	708	947	708	947	-	-	705	-
		C610x/C6145 C6220	-	Generic Tool-less	Static	✓	✓	X	X	X	615	925	615	925	-	-	606	-
		C63xx	-	Generic Tool-less	Static	✓	✓	X	X	X	725	917	725	917	-	-	-	-
		C64xx	-	Generic Tool-less	Static	✓	✓	X	X	X	603[a]	917	603[a]	917	-	-	-	-
		C8000	-	Generic Tool-less	Static	✓	✓	X	X	X	708	946	708	946	-	-	713	-
SWITCHES	KVM	1081AD/2161AD 1082DS/2162DS 4322DS	A5	ReadyRails	Static	✓	✓	✓	✓	✓	470	770	456	763	462	794	480	-
		180AS/2160AS 2161DS/2161DS-2 4161DS	-	Generic	Static	✓	✓	✓	✓	X	686	737	686	737	686	737	686	-
		2321DS	-	Generic	Static	✓	✓	✓	✓	X	533	737	533	737	533	737	533	-

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	Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
					4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
					Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
Networking	PC8132/PC8132F PC8164/PC8164F	A5	ReadyRails	Static	✓	✓	✓	✓	✓	470	770	456	763	462	794	480	-
Networking	S4820T/S6000	A5	ReadyRails	Static	✓	✓	✓	✓	✓	470	770	456	763	462	794	480	-
Networking	S5000	-	Generic	Static	✓	✓	✓	X	X	680	830	680	830	680	830	680	-
Networking	Z9100	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	794	480	-
Networking	S4248	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	794	480	-
Networking	S41xx	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	S4048/S4048T	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	S6010	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	S3048	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	S6100	B9	ReadyRails II	Static	✓	✓	✓[a,c,d]	X	X	595	914	581	907	595	929	600	-
Networking	S6100NEBS	-	Generic	Static	X	X	X	✓	X	-	-	-	-	-	-	-	-
Networking	N2128PX-ON	-	Generic	Static	X	X	X	✓	X	-	-	-	-	-	-	-	-
Networking	N3132PX-ON	A5	ReadyRails	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	N1108T/N1108P	-	Generic	Static	X	X	X	✓	X	-	-	-	-	-	-	-	-
Networking	N1124T/N1124P	-	Generic	Static	X	X	X	✓	X	-	-	-	-	-	-	-	-
Networking	N1148T/N1148P	-	Generic	Static	X	X	X	✓	X	-	-	-	-	-	-	-	-
Networking	N3024/N3048	A5	ReadyRails	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	S5148	A5	ReadyRails	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	S31xx	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
Networking	N30xx	A5	ReadyRail	Static	✓	✓	✓	✓	✓	470	770	456	763	462	764	480	-
WORKSTATIONS	R7910	B6	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	631	868	617	861	631	883	714[b]	845

	Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
					4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
					Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
		B4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	608	890	622	-
	T7600/T7610	C2	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	686	756	672	749	686	771	760	840
	R5500/R7610	B2	ReadyRails	Sliding	✓	✓	✓[f]	X	X	686	883	672	876	651	897	755[b]	883
KMM	FPM185 (without KVM)	-	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	604	900	590	893	604	914	-	611
KMM	FPM185 (with KVM)	-	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	705	900	691	893	705	914	-	715
KMM	17FP	-	RapidRails	Sliding	✓	X	X	X	X	714	755	-	-	-	-	-	787
KMM	17FP	-	VersaRails	Sliding	✓	✓	X	X	X	709	755	709	755	-	-	-	787
UPS	Dell Rack Mount UPS Family	B5	ReadyRails	Static	✓	✓	✓[f]	X	X	518	769	504	762	483	783	526	-
OTHER	1U Fixed Equipment Shelf	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
STO Pow	NX3300/NX400	A7	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	631	868	617	861	631	883	720[b]	845

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				4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
				Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
	A8	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
NX3200	B6	ReadyRails II	Sliding	✓	✓	✓[a,c,d]	X	X	631	868	617	861	631	883	714[b]	845
	B4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	608	890	622	-
NX3500 Controller	A3	ReadyRails	Sliding	✓	✓	✓[e]	X	X	686	883	672	876	651	897	714[b]	835
	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
NX3500 UPS	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
DX6000G	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
	A6	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	508[c]	751	494[c]	744	519[c]	762	515[c] 376[d]	-
NX300/DX6004S	A3	ReadyRails	Sliding	✓	✓	✓[e]	X	X	686	883	672	876	651	897	714[b]	835
	A4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	604	890	622	-
NX3000/DX6000	B1	ReadyRails	Sliding	✓	✓	✓[f]	X	X	692	756	678	749	657	770	751	840
	A2	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	588	828	574	821	592	846	608	-
NX3100/DL2200 DX6012S/DR4000	B3	ReadyRails	Sliding	✓	✓	✓[f]	X	X	686	883	672	876	651	897	714[b]	845
	B4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	608	890	622	-
MD3060e/MD3660	-	VersaRail	Static	✓	✓	X	X	X	611	791	611	791	-	-	620	-
MD12xx/32xx/36xx NX36xx	B9	ReadyRails II	Static	✓	✓	✓[a,c,d]	X	X	595	914	581	907	595	929	600	-
	-	RapidRails	Static	✓	X	X	X	X	732	758	-	-	-	-	729	-
	-	VersaRails	Static	✓	✓	X	X	X	714	758	714	758	-	-	721	-
MD1120	-	RapidRails	Static	✓	X	X	X	X	732	759	-	-	-	-	729	-

DellEMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

	Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
					4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
					Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
		-	VersaRails	Static	✓	✓	X	X	X	714	759	714	759	-	-	721	-
	MD1000/MD3000	-	RapidRails	Static	✓	X	X	X	X	732	758	-	-	-	-	735	-
		-	VersaRails	Static	✓	✓	X	X	X	714	758	714	758	-	-	735	-
	PV114T/PV114X	B7	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	588	828	574	821	592	846	608	-
		-	RapidRails	Sliding	✓	X	X	X	X	722	750	-	-	-	-	792	870
		-	VersaRails	Sliding	✓	✓	X	X	X	701	745	701	745	-	-	792	870
	PV124T	-	RapidRails	Static	✓	X	X	X	X	729	755	-	-	-	-	732	-
		-	VersaRails	Static	✓	✓	X	X	X	711	755	711	755	-	-	732	-
EqualLogic™	FS7500 Controller	A1	ReadyRails	Sliding	✓	✓	✓e	X	X	692	756	678	749	657	770	768[b]	887
		A2	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	588	828	574	821	592	846	608	-
	FS7500 UPS	A4	ReadyRails	Static	✓	✓	✓a,c	✓a,c	✓c	608	879	594	872	604	890	622	-
	FS76xx/PS41xx PS61xx	B9	ReadyRails II	Static	✓	✓	✓a,c,d	X	X	595	914	581	907	595	929	600	-
		-	RapidRails	Static	✓	X	X	X	X	732	758	-	-	-	-	729	-
		-	VersaRails	Static	✓	✓	X	X	X	714	758	714	758	-	-	721	-
	PS6500/6510	-	ReadyRails	Sliding	✓	✓	✓a,c	X	X	597	793	583	786	605	817	885	885
	PS4000/6000/6010	-	Generic	Static	✓	✓a	✓a	X	X	616	914	616	914	616	914	616	-
Dell	SC8000	B6	ReadyRails II	Sliding	✓	✓	✓a,c,d	X	X	631	868	617	861	631	883	714[b]	845

DellEMC Enterprise Systems Rail Sizing and Rack Compatibility Matrix

Product	Rail identifier	Mounting interface	Rail type	Rack types supported					Rail adjustability range (mm)						Rail depth (mm)	
				4-Post			2-Post		Square		Round		Threaded		without CMA/SRB	with CMA(SRB)
				Square	Round	Thread	Flush	Center	Min	Max	Min	Max	Min	Max		
	B4	ReadyRails	Static	✓	✓	✓[a,c]	✓[a,c]	✓[c]	608	879	594	872	608	890	622	-
SC20xx/SC40xx	-	Generic	Static	✓	✓	✓[A]	X	X	611	914	614	914	614	914	-	-
SC2xx/FS86xx	B9	ReadyRails II	Static	✓	✓	✓[a,c,d]	X	X	595	914	581	907	595	929	600	-
	-	RapidRails	Static	✓	X	X	X	X	732	758	-	-	-	-	729	-
	-	VersaRails	Static	✓	✓	X	X	X	714	758	714	758	-	-	721	-
SCV30xx SC50xx SC7020	B9	ReadyRails II	Static	✓	✓	✓[a,c,d]	X	X	595	914	581	907	595	929	600	-
Series 40	-	Generic	Sliding	✓	✓[g]	✓[g]	X	X	669	923	669	923	707[g]	961[g]	693	-
Fibre Channel	-	Generic	Static[h]	✓	✓	✓	X	X	606	910	606	910	606	910	598	-
SAS (new rails)	-	Generic	Static[h]	✓	✓	X	X	X	606	910	606	910	606	910	598	-
SAS (old rails)	-	Generic	Static[h]	✓	✓	✓	X	X	682	885	682	885	682	885	598	-
NAS Gen3	-	Generic	Sliding	✓[i]	✓[i]	✓[i]	X	X	652	854	652	854	652	854	810	-

Notes:

[a] Minor conversion required

[b] With CMA brackets removed
[c] Mounting screws not included in the kit
[d] Mounting screw head diameter must be 10 mm or less
[e] Requires the 1U Threaded Rack Adapter Brackets Kit (Dell PN 8Y19G), which shifts the system forward in the rack by 17.3 mm
[f] Requires the 2U Threaded Rack Adapter Brackets Kit (Dell PN PKCR1), which shifts the system forward in the rack by 17.3 mm
[g] Requires adapter kit (included)
[h] System fully serviceable while in the rack
[i] Requires additional rail guide (included in kit) for full serviceability
[j] With middle brackets removed
[k] With rear brackets removed (applies to 2-post or cantilever mount only)
[l] SRB is staged furthest to the rack door

Table 3. DellEMC rack compatibility matrix

		Product	Rail Identifier	Mounting Interface	Rail Type	Dell-branded APC Racks (AR3100X717/AR3104X717)	Dell xx20/xx20D/xx20S	Dell xx20W	Dell xx10	HP 10XXX	HP/Compaq 9XXX	IBM S2	APC Netshelter SX (600mm Wide x 1070mm Deep)	24" Post Rack Spacing	Liebert Foundation	Chatsworth Teraframe	Wrightline Vantage S2
SERVERS	PowerEdge	R320/R330/R420 R430/R620 (8-HDD) R630 (8-HDD) R640 (8-HDD)	A7	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
			A8	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
			A10	Generic Tool-less	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	✓[14]	✓	✓	✓
		R620 (10-HDD) R630 (10/24-HDD) R640 (4-HDD/10-HDD	A7	ReadyRails II	Sliding	✓[3,4]	✓[2]	✓	✓[9]	✓	✓[1]	✓	✓[3,4]	X	✓	✓	✓
			A8	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
			A10	Generic Tool-less	Sliding	✓[3,4]	✓[2]	✓	✓[9]	✓	✓[1]	✓	✓[3,4]	✓[14]	✓	✓	✓
		R440/R6415	A8	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
			A11	Generic Tool-less	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	✓[14]	✓	✓	✓
		R520/R530/R540/R540xd R720/R720xd R730/R730xd R740/R740xd/R7415/R7425	B6	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
			B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
			B13	Generic Tool-less	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	✓[14]	✓	✓	✓
		R820/830	B6	ReadyRails II	Sliding	✓[3,4]	✓[2]	✓	✓	✓	✓[1]	✓	✓[3,4]	X	✓	✓	✓
			B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
			B13	Generic Tool-less	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	✓[14]	✓	✓	✓
		R840	B15	Generic Tool-less	Sliding	✓[4,6,12]	✓[5]	✓	✓[10]	✓[10]	✓[10,13]	✓[10]	✓	X	✓	✓[10]	✓[10,13]

R920/R930	B8	ReadyRails	Sliding	✓[3,5]	✓[2]	✓	✓	✓	✓	✓	✓[3,5]	X	✓	✓	✓
R940	B12	ReadyRails II	Sliding	✓[3,6,12]	✓[3,6,12]	✓	✓[13]	✓[13]	✓[13]	✓[13]	✓	✓[15]	✓	✓	✓
R940xa	B16	Generic Tool-less	Sliding	✓[4,6,12]	✓[5]	✓	✓[10]	✓[10]	✓[10,13]	✓[10]	✓	X	✓	✓[10]	✓[10,13]
FX2/FX2s	B10	ReadyRails II	Sliding	✓[4,6,12]	✓[5]	✓	✓[10]	✓[10]	✓[10,13]	✓[10]	✓[4,6,12]	X	✓	✓[10]	✓[10,13]
	B11	ReadyRails II	Static	✓[4,6]	✓	✓	✓[10]	✓[10]	✓[10]	✓[10]	✓[4,6]	X	✓	✓[10]	✓[10]
C4130/C4140	A9	ReadyRails II	Sliding	✓[7]	✓[4,7,10]	✓[10]	X	X	X	X	✓[7]	X	✓[10]	X	X
T630	C4	ReadyRails	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
T320/T330/T420/T620	C2	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
VRTX	C3	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	✓[15]	✓	✓	✓
R210/R210 II/R220	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
	A6	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
R230	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
R310/R410/R415	A3	ReadyRails	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
R510/R515	B3	ReadyRails	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
	B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
R610	A1	ReadyRails	Sliding	✓[3]	✓[2]	✓	✓	✓	✓[1]	✓	✓[3]	X	✓	✓	✓
	A2	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
R710	B1	ReadyRails	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
	A2	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
R715/R810/R815/R910	B2	ReadyRails	Sliding	✓[3]	✓[2]	✓	✓	✓	✓[1]	✓	✓[3]	X	✓	✓	✓

		T610/T710	C1	ReadyRails	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
		M1000e	-	RapidRails	Static	✓[4,5]	✓	✓	✓	✓	✓	✓	✓[4,5]	X	✓	✓	✓
			-	VersaRails	Static	✓[4,5]	✓	✓	✓	✓	✓	✓	✓[4,5]	X	✓	✓	✓
	PowerEdge C	C1100	-	Generic Tool-less	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		C2100	-	Generic	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		C410x	-	VersaRails	Sliding	✓[8]	✓[8]	✓[8]	✓[8]	✓	✓	✓[8]	✓[8]	X	X	X	✓
		C5xxx	-	Generic Tool-less	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		C63xx	-	Generic Tool-less	Static	✓	✓	✓	✓[16]	✓	✓	✓	✓	✓[14]	✓	✓	✓
		C64xx	-	Generic Tool-less	Static	✓	✓	✓	✓[16]	✓	✓	✓	✓	✓[14]	✓	✓	✓
		C610x/C6145/C6220	-	Generic Tool-less	Static	✓[4]	✓	✓	✓	✓	✓	✓	✓[4]	X	✓	✓	✓
		C8000	-	Generic Tool-less	Static	✓[4,6]	✓[4, 11]	✓[11]	✓	✓	✓	✓	✓[4,6]	X	✓	✓	✓
SWITCHES	KVM	1081AD/2161AD 1082DS/2162DS 4322DS	A5	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
		180AS/2160AS 2161DS/2161DS-2 4161DS	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
		2321DS	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
	Networking	PC8132/PC8132F PC8164/PC8164F	A5	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓

		S4820T/S6000	A5	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
		S5000	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
WORKSTATIONS		R7910	B6	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	-	✓	✓	✓
			B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
		T7600/T7610	C2	ReadyRails II	Sliding	✓[2]	✓[11]	✓[11]	✓	✓	✓[1]	✓	✓[2]	-	✓	✓	✓
		R5500/R7610	B2	ReadyRails	Sliding	✓[3]	✓[2]	✓	✓	✓	✓[1]	✓	✓[3]	-	✓	✓	✓
KMM		FPM185 (without KVM)	-	ReadyRails II	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	-	X	✓	✓
		FPM185 (with KVM)	-	ReadyRails II	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	-	X	✓	✓
		17FP	-	RapidRails	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
			-	VersaRails	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
UPS		Dell Rack Mount UPS Family	B5	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
OTHER		1U Fixed Equipment Shelf	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓
STORAGE	PowerVault	NX3300/NX400	A7	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
			A8	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
		NX3200	B6	ReadyRails II	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓
			B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
		NX3500 Controller	A3	ReadyRails	Sliding	✓[2]	✓	✓	✓	✓	✓[1]	✓	✓[2]	X	✓	✓	✓

	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
NX3500 UPS	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
DX6000G	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
	A6	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
NX300/DX6004S	A3	ReadyRails	Sliding	✓2	✓	✓	✓	✓	✓1	✓	✓2	X	✓	✓	✓
	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
NX3000/DX6000	B1	ReadyRails	Sliding	✓2	✓	✓	✓	✓	✓1	✓	✓2	X	✓	✓	✓
	A2	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
NX3100/DL2200/ DX6012S/DR4000	B3	ReadyRails	Sliding	✓2	✓	✓	✓	✓	✓1	✓	✓2	X	✓	✓	✓
	B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
MD3060e/MD3660	-	VersaRails	Static	✓4,6	✓4	✓	✓10	✓10	X	✓10	✓4,6	X	✓	✓10	X
MD12xx/32xx/36xx	B9	ReadyRails II	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
NX36xx	-	RapidRails	Static	✓	✓	✓	✓	✓	X	✓	✓	X	X	✓	✓
	-	VersaRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
MD1120	-	RapidRails	Static	✓	✓	✓	✓	✓	X	✓	✓	X	X	✓	✓
	-	VersaRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓

		MD1000/MD3000	-	RapidRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
			-	VersaRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		PV114T/PV114X	B7	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
			-	RapidRails	Sliding	✓2	✓	✓	✓	✓	✓1	✓	✓2	X	✓	✓	✓
			-	VersaRails	Sliding	✓2	✓	✓	✓	✓	✓1	✓	✓2	X	✓	✓	✓
		PV124T	-	RapidRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
			-	VersaRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
	EqualLogic	FS7500 Controller	A1	ReadyRails	Sliding	✓3	✓2	✓	✓	✓	✓1	✓	✓3	X	✓	✓	✓
			A2	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓

	FS7500 UPS	A4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
	FS76xx/PS41xx/	B9	ReadyRails II	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
	PS61xx	-	RapidRails	Static	✓	✓	✓	✓	✓	X	✓	✓	X	X	✓	✓
		-	VersaRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
	PS6500/6510	-	ReadyRails	Sliding	✓7	✓2	✓	✓	✓	X	✓	✓7	✓15	✓	✓	✓
	PS4000/6000/6010	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
Dell Compellent	SC20xx/SC40xx	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓
	SC8000	B6	ReadyRails II	Sliding	✓2	✓	✓	✓	✓	✓1	✓	✓2	✓15	✓	✓	✓
		B4	ReadyRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓15	✓	✓	✓

		SC2xx/FS86xx	B9	ReadyRails II	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
			-	RapidRails	Static	✓	✓	✓	✓	✓	X	✓	✓	X	X	✓	✓
			-	VersaRails	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		SCV30xx SC50xx SC7020	B9	ReadyRails II	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓[15]	✓	✓	✓
		Series 40	-	Generic	Sliding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Fibre Channel	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		SAS (new rails)	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		SAS (old rails)	-	Generic	Static	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓
		NAS Gen3	-	Generic	Sliding	✓[6]	✓	✓	✓	✓	✓	✓	✓[6]	X	✓	✓	✓

Notes:

[1] A rear door extension kit is required to accommodate the CMA.

[2] CMA may impede access to forward bank of rear-mount PDUs.

[3] CMA and outer CMA brackets must be removed in order to access the forward bank of rear-mount PDUs.

[4] Rear-mount PDUs may impede extraction of some rear system modules.

[5] The strain relief bar interferes with the forward bank of rear-mount PDUs.

[6] Rails/system block the forward bank of rear-mount PDUs.

[7] Rails/system block both the forward and rearward banks of rear-mount PDUs.

[8] The rear mounting flanges of the rack must be moved rearward.

[9] The CMA tray interferes with rear door lock rod in top U and bottom U.

[10] Space for external cable routing is limited.

[11] May need to adjust the rack's mounting posts back to allow the front door to close.

[12] CMA/SRB fully blocks front bank of rear-mount PDUs, and partially blocks the rearward PDU banks. Recommend rotating PDUs 90°.

[13] CMA/SRB must be removed to enable rear door to close.

[14] The rails align with bezels on EMC systems (unthreaded round-hole rack).

[15] The rails require tooled installation for bezel alignment with EMC systems (unthreaded round-hole rack).