

Information update—SATA drive speed on the 12th generation of PowerEdge servers

This document provides information about the 12th generation of PowerEdge systems that support SATA drives.

The following tables list the 12th generation of PowerEdge systems with the backplane configurations that support SATA drives at 6 Gbps speed.

Table 1. Systems—Backplane without expander chip

Systems	Backplane configuration	Storage controller
R620	4x 2.5 inch with 2x 2.5 inch PCIe SSD	H310, H710, H710P
R820	8x 2.5 inch	H710, H710P
T320	8x 3.5 inch	H310, H710, H710P
T420	8x 3.5 inch	H310, H710, H710P
T620	8x 3.5 inch	H310, H710, H710P

Table 2. Systems—Backplane with expander chip

Systems	Backplane configuration
R620	10x 2.5 inch
R720	16x 2.5 inch
R720xd	12x 3.5 inch
R820	16x 2.5 inch
T320	16x 2.5 inch
T420	16x 2.5 inch
T620	16x 2.5 inch
	12x 3.5 inch
	32x 2.5 inch



The following tables list the 12th generation of PowerEdge systems with the backplane configurations that do not support SATA drives at 6 Gbps speed.

Table 3. Systems—Backplane without expander chip

Systems	Backplane configuration	Storage controller
R620	4x 2.5 inch	H310, H710, H710P
	8x 2.5 inch	
R720	8x 2.5 inch	H310, H710, H710P
	8x 3.5 inch	
R820	8x 2.5 inch	H310
R320	8x 2.5 inch	H310, H710, H710P
	4x 3.5 inch	
R420	8x 2.5 inch	H310, H710, H710P
	4x 3.5 inch	
R520	8x 3.5 inch	H310, H710, H710P

Table 4. Systems—Backplane with expander chip

System	Backplane configuration
R720xd	24x 2.5 inch
	24x 2.5 inch with 2x 2.5 inch rear drive
	12x 3.5 inch with 2x 2.5 inch rear drive

To use SATA drives at 6 Gbps speed, change the limit of negotiated speed to 6 Gbps using PowerEdge RAID Controller 8 (PERC8). For more information about the settings, see the *Dell PowerEdge RAID Controller (PERC) 8 User's Guide* at Dell.com/storagecontrollermanuals.