

High Performance Intel® Solid-State Drives for Your Customer's Data Center

Dell* systems with the Intel® SSD DC S3700 Series, Intel® SSD DC S3610 Series or Intel® SSD DC S3500 Series can dramatically improve performance and efficiency for your enterprise customers.

Intel® SSDs...



- Reduce energy and support costs for a lower total cost of ownership (TCO)



- Remove performance bottlenecks in data center applications

Dell Poweredge* Server with Intel® SSD DC S3700 Series vs. 15K SAS HDD Storage Solution**

Below are test results comparing a Dell Poweredge* Server with a 400GB Intel® SSD DC S3700 Series and the same system with a 2.5-inch, 15K SAS HDD storage solution. The benchmark represents real usage with a 100% random workload, 70/30 read/write ratio.

IOPS, Queue Depth 32

Intel® SSD DC S3700 Series

23,676

15K SAS HDD

437

Performance per Watt, Random IOPS

Intel® SSD DC S3700 Series

1,857

15K SAS HDD

29

Fast, Consistent Performance with Stress-Free Protection

	Intel® Solid-State Drive (SSD) DC S3500 Series	Intel® Solid-State Drive (SSD) DC S3610 Series	Intel® Solid-State Drive (SSD) DC S3700 Series
Fast and Consistent Performance	4K Random read input/output operations per second (IOPS) up to 75K		
	Serial Advanced Technology Attachment (SATA) 6Gb/s		
	4K random write IOPS up to 11.5K	4K random write IOPS up to 24K	4K random write IOPS up to 36K
	Max. latencies of <500 µs, 99.9% of the time		
End-to-end Data Protection	Sequential read/write up to 500/450 MB/s		
	Sequential read/write up to 500/450 MB/s		
Outstanding Life Expectancy	<ul style="list-style-type: none"> Full data path and non-data path protection Parity checks Cyclic Redundancy Checks (CRC) Logical Block Addressing (LBA) tag validation Power loss protection 256-bit AES (Advanced Encryption Standard) 		
	2 million hours Mean Time Between Failures (MTBF)		
Efficient Power Usage	5 year limited warranty		
	<ul style="list-style-type: none"> 20nm MLC Up to 5.0W typical operational power 0.65 W standby 	<ul style="list-style-type: none"> 20nm MLC Up to 6.8W typical operational power 0.6 W standby 	<ul style="list-style-type: none"> 25nm MLC HET Up to 6.0W typical operational power 0.65 W standby
Exceptional Endurance	<ul style="list-style-type: none"> Up to 450 Terabytes Written (TBW) endurance rating 		
	<ul style="list-style-type: none"> High-Endurance Technology (HET) Up to 10.7 Petabytes Written (PBW) endurance rating 	<ul style="list-style-type: none"> High-Endurance Technology (HET) Up to 14.6 Petabytes Written (PBW) endurance rating 	<ul style="list-style-type: none"> High-Endurance Technology (HET) Up to 14.6 Petabytes Written (PBW) endurance rating

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Dell* Part Numbers

Family	Density	Intel® PN	Dell* PN	MM ¹	Description
Intel® SSD DC S3500 Series	120 GB	SSDSC2BB120G4RP	MVTNM	930603	120 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	160 GB	SSDSC2BB160G4RP	PX9CC	930603	160 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	300 GB	SSDSC2BB300G4RP	DYFP9	930604	300 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	480 GB	SSDSC2BB480G4RP	CFPWY	930605	480 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	NEW! 480 GB	SSDSC2BB480G4RG	7GPY7	940610	480 GB, 2.5in SATA 6Gb/s, 20nm, MLC, Qualified on 13G Platforms
	800 GB	SSDSC2BB800G4RP	4FR9D	930606	800 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	80 GB	SSDSC1NB080G4RP	FOPMD	932016	80 GB, 1.8in SATA 6Gb/s, 20nm, MLC
	240 GB	SSDSC1NB240G4RP	PGJJ6	932017	240 GB, 1.8in SATA 6Gb/s, 20nm, MLC
	400 GB	SSDSC1NB400G4RP	X7PVW	932018	400 GB, 1.8in SATA 6Gb/s, 20nm, MLC
	800 GB	SSDSC1NB800G4RP	XP4KG	932019	800 GB, 1.8in SATA 6Gb/s, 20nm, MLC
Intel® SSD DC S3610 Series	NEW! 200 GB	SSDSC2BX200G4RP	30481G	940769	200 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	NEW! 400 GB	SSDSC2BX400G4RP	65WJJ	940771	400 GB, 2.5in SATA 6Gb/s, 20nm, MLC
	NEW! 800 GB	SSDSC2BX800G4RP	9F3GY	940773	800 GB, 2.5in SATA 6Gb/s, 20nm, MLC
Intel® SSD DC S3700 Series	100 GB	SSDSC2BA100G3RP	T7G55	930195	100 GB, 2.5in SATA 6Gb/s, 25nm, MLC
	200 GB	SSDSC2BA200G3RP	KNT24	930196	200 GB, 2.5in SATA 6Gb/s, 25nm, MLC
	400 GB	SSDSC2BA400G3RP	58DVD	930197	400 GB, 2.5in SATA 6Gb/s, 25nm, MLC
	800 GB	SSDSC2BA800G3RP	DT8XJ	930198	800 GB, 2.5in SATA 6Gb/s, 25nm, MLC

¹50 pack quantity. For additional quantity information, please refer to mark.intel.com

Platform Selection Guide

Intel® SSD DC S3610 Series and Intel® SSD DC S3500 Series (120/480GB) are qualified on the following Dell server platforms:

13th generation Dell Poweredge* Servers

Rack Mount Servers	Blade Servers	Tower Servers
R830	M630	T630
R730	M830	
R630		

Intel® SSD DC S3700 Series and Intel® SSD DC S3500 Series are qualified on the following Dell server platforms:

12th generation Dell Poweredge* Server

Rack Mount Servers	Blade Servers	Tower Servers
R820	R520	M820
R720	R420	M620
R720-xd	R320	M520
R620		T320

11th generation Dell Poweredge* servers

Rack Mount Servers	Blade Servers	Tower Servers
R910	R710	R415
R905	R715	R410
R900	R630	R310
R815	R610	R300
R810	R515	R210
R805	R510	R210 II
		R200
	M910	T710
	M905	T610
	M710 HD	T605
	M610	T410
	M610x	T310
	M605	
		T300
		T110
		T110 II
		T100

Dell PowerEdge C* servers:

C8220	C6145
C8000	C6105
C6220 II	C5220
C6220	

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