

# CONSISTENTLY AMAZING. INTEL® SOLID STATE DRIVES.



## Intel® SSD Data Center Family for PCIe\* Delivers...

### Scalable, Flexible, and Stable



NVMe\* for scalable performance, flexible form factors, and industry stability

### Advantages over SATA SSDs

up to  
**50%**  
Reduced Latency

up to  
**6X**  
Performance Improvement

up to  
**2X**  
CPU utilization

### Better Technologies and Features



NVMe provides low power and security features

### Superior Bandwidth



1 GB/s per lane to 1-16 lanes per drive directly attached to CPU, eliminate HBA costs and overhead

## Lenovo\* Platform Selection Guide

### Intel® SSD DC P3700 Series - Write Intensive Workloads

VSAN* CERTIFIED	Capacity	Intel Model #	Lenovo* PN	Intel MM	Description
	400 GB	SSDPE2MD400G4L	00YA818	935795	400GB, U.2 2.5-Inch, PCIe 3.0, 7.3 PBW
	800 GB	SSDPE2MD800G4L	00YA821	935796	800GB, U.2 2.5-Inch, PCIe 3.0, 14.6 PBW
	1600 GB	SSDPE2MD016T4L	00YA824	935797	1600GB, U.2 2.5-Inch, PCIe 3.0, 43.8 PBW
	2000 GB	SSDPE2MD020T4L	00YA827	935798	2000GB, U.2 2.5-Inch, PCIe 3.0, 62.05 PBW
	1600 GB	SSDPEDMD016T4L	00YA812	945087	1600GB, HHHL, PCIe 3.0, 43.8 PBW
	2000 GB	SSDPEDMD020T4L	00YA815	945090	2000GB, HHHL, PCIe 3.0, 62.05 PBW

#### Qualified on the following Lenovo\* Platforms:

ThinkServer\* Platforms:  
RD550, R650

System x\* Platforms:  
x3550 M5, X3650 M5, x3850 X6, x3950 X6, Flex x240 M5

### Intel® SSD DC P3600 Series - Mixed Use Workloads

VSAN CERTIFIED	Capacity	Intel Model #	System x* PN	Intel MM	ThinkServer* PN	Intel MM	Description
	400 GB	SSDPE2ME400G4L	90Y3227	939259	-	-	400GB, U.2 2.5-Inch, PCIe 3.0, 2.19 PBW
	800 GB	SSDPE2ME800G4L	90Y3230	939257	SSD0F55476	935800	800GB, U.2 2.5-Inch, PCIe 3.0, 4.38 PBW
	1200 GB	SSDPE2ME012T4L	-	-	SSD0F55477	935801	1200GB, U.2 2.5-Inch, PCIe 3.0, 6.57 PBW
	1600 GB	SSDPE2ME016T4L	90Y3233	939255	SSD0F55478	935802	1600GB, U.2 2.5-Inch, PCIe 3.0, 8.76 PBW
	2000 GB	SSDPE2ME020T4L	90Y3236	939253	SSD0F55479	935803	2000GB, U.2 2.5-Inch, PCIe 3.0, 10.95 PBW

#### Qualified on the following Lenovo\* Platforms:

System x\* Platforms:  
x3850 X6, x3950 X6, Flex x240 M5

VSAN CERTIFIED

Represents Intel® SSD that are VMWare\* Virtual SAN\* certified

View online



<sup>1</sup> Intel® SSD Data Center Family for PCIe\* performance information based on:

[www.intel.com/content/www/us/en/solid-state-drives/intel-ssd-dc-family-for-pcie-brief.html](http://www.intel.com/content/www/us/en/solid-state-drives/intel-ssd-dc-family-for-pcie-brief.html)

Results measure by Intel® based on the following configurations. Configurations: Intel® S2600CP server, Intel® Xeon® E5-2690v2 x2, 64GB DDR3, Intel® SSD DC P3700 Series 400GB, LSI 9207-8i, Intel® SSD DC S3700, HGST 6GBps SAS. Test document performance of components on a particular test, in specific systems. Differences in hardware, software, or configuration will affect actual performance. Intel Technologies', features and benefits depend on system configuration and may require enabled hardware, software, or service activation. Performance varies depending on system configuration. No computer systems can be absolutely secure. Check with your system manufacturer or retailer or learn more at Intel.com.

<sup>2</sup> Intel® SSD DC S3710 Series and Intel® SSD DC S3610 Series only.

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# Intel® SSD Data Center Family for SATA Delivers...



**INCREASED PERFORMANCE**

Up to **300X FASTER** than a SAS HDD<sup>1</sup>



**DATA INTEGRITY AND RELIABILITY**

End-to-End Data Protection, Low Density Parity Check, Thermal Throttling, Power Loss Imminent



**POWER LOSS PROTECTION**



**HIGH ENDURANCE TECHNOLOGY (HET)**  
optimized for write intensive applications

## Lenovo\* Platform Selection Guide

### Intel® SSD DC S3710 Series - Write Intensive Workloads

VSAN* CERTIFIED	Capacity	Intel Model #	Lenovo* PN	Lenovo* 3.5" PN	Lenovo* NeXtScale PN	Intel MM	Description
	200 GB	SSDSC2BA200G4N	00YC320	-	00YC350	944736	200 GB, 2.5-Inch, 6GB SATA, 3.6 PBW
	400 GB	SSDSC2BA400G4N	00YC325	00YC340	00YC355	944738	400 GB, 2.5-Inch, 6GB SATA, 8.3 PBW
	800 GB	SSDSC2BA800G4N	00YC330	00YC345	-	944740	800 GB, 2.5-Inch, 6GB SATA, 16.9 PBW

#### Qualified on the following Lenovo\* Platforms:

System x\* Platforms:

x3100 M5, x3250 M5, x3500 M5, x3550 M5, X3650 M5, x3850 X6, x3950 X6, Flex x240 M5, Flex x280 x6, Flex x480 x6, Flex x880 x6, NextScale nx360 M5

### Intel® SSD DC S3610 Series - Mixed Use Workloads

VSAN* CERTIFIED	Capacity	Intel Model #	System X* PN	ThinkServer* PN	Intel MM	Description
	200 GB	SSDSC2BX200G4L	00YK151	SSD0L20142	949515	200 GB, 2.5-Inch, 6GB SATA, 1.1 PBW
	400 GB	SSDSC2BX400G4L	00YK170	SSD0L20143	949547	400 GB, 2.5-Inch, 6GB SATA, 3.0 PBW
	480 GB	SSDSC2BX480G4L	00YK212	SSD0L16540	949506	480 GB, 2.5-Inch, 6GB SATA, 3.7 PBW
	800 GB	SSDSC2BX800G4L	00YK217	SSD0L16541	949508	800 GB, 2.5-Inch, 6GB SATA, 5.3 PBW
	1200 GB	SSDSC2BX012T4L	00YK222	SSD0L16542	949510	1200 GB, 2.5-Inch, 6GB SATA, 8.6 PBW
	1600 GB	SSDSC2BX016T4L	00YK227	SSD0G16543	949512	1600 GB, 2.5-Inch, 6GB SATA, 10.7 PBW

#### Qualified on the following Lenovo\* Platforms:

ThinkServer\* Platforms:

TD350, RD350, RD450, RD550, R650

### Intel® SSD DC S3520 Series - Read Intensive Workloads

Capacity	Intel Model #	System X* PN	ThinkServer* PN	Intel MM	Description
240 GB	SSDSC2BB240G7N	01GR726	4XB0K12326	951402	240 GB, 2.5-Inch, 6GB SATA, 599 TBW
480 GB	SSDSC2BB480G7N	01GR731	4XB0K12329	951403	480 GB, 2.5-Inch, 6GB SATA, 945 TBW
960 GB	SSDSC2BB960G7N	01GR736	4XB0K12332	951410	960 GB, 2.5-Inch, 6GB SATA, 1663 TBW

#### Qualified on the following Lenovo\* Platforms:

ThinkServer\* Platforms:

TD350, RD350, RD450, RD550, R650

System x\* Platforms:

x3100 M5, x3500 M5, x3550 M5, X3650 M5, x3850 X6, x3950 X6, Flex x240 M5, Flex x280 x6, Flex x480 x6, Flex x880 x6, NextScale nx360 M5

Endurance	High	Mid	Low
<b>HPC</b>			
Scientific/ Financial	✓		
<b>Embedded</b>			
Factory Control Systems			✓
Medical HD Imaging	✓		
<b>OLTP Database</b>			
B2B (Online B2B)			✓
B2C (Online retail sales)		✓	
<b>OLAP Database (Big Data Analytics)</b>			
Departmental DB			✓
Distributed DB/Warehouse		✓	
Big Data / Hadoop	✓		
<b>Virtualization</b>			
Virtual Desktops		✓	✓
Virtual Servers		✓	✓
Large Scale Virtualization	✓		

ENDURANCE	DRIVE WRITES PER DAY (DWPD)	INTEL® SSD DC	
<b>HIGH</b>	UP TO 17 DWPD	P3700/S3700/S3710 Series	
<b>MID</b>	UP TO 3 DWPD	P3600/S3610 Series	
<b>LOW</b>	UP TO .3 DWPD	P3500/S3500/S3510 Series	
Endurance	High	Mid	Low
<b>Boot / OS</b>			
Boot Only			✓
Secure OS		✓	✓
<b>Unique Workloads</b>			
Email			✓
Machine Generated Data		✓	✓
<b>Content Delivery / Web Servers / Web Services</b>			
Static Web Content			✓
On-Demand Streaming	✓		