

Data Sheet

Pulsar[®]

True enterprise solid state drive (SSD) for blade and general server applications

200GB, 100GB and 50GB solid state drive •
SLC NAND flash • SATA 3Gb/s

Key Advantages

- Single-level cell (SLC) technology optimizes SSD reliability and endurance
- Up to 200GB capacity in a 2.5-inch form factor and 7mm z-height
- 0.44 percent AFR for high reliability and endurance
- Power loss data protection to help ensure against data loss upon power failure
- 5-year limited warranty
- SATA 3Gb/s interface to support current blade server chipsets
- 30 years of Seagate leadership in meeting enterprise customer requirements
- Leverages industry-leading, global enterprise support
- Industry-leading solid-state storage (SSS) and solid state drive standards development through JEDEC and SNIA

Best-Fit Applications

- Enterprise blade server applications
- General enterprise server applications





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Specifications	200GB ¹	100GB ¹	50GB ¹
Model Number	ST9200011FS	ST9100011FS	ST950011FS
Interface	SATA 3Gb/s	SATA 3Gb/s	SATA 3Gb/s
NAND Flash Type	SLC	SLC	SLC
Product Application Class	Enterprise Standard	Enterprise Standard	Enterprise Standard
Storage Type	SSD	SSD	SSD
Guaranteed Logical Blocks	390,721,968	195,371,568	97,696,368
Performance			
Sustained Data Transfer Rate (Mb/s)	240,000	240,000	240,000
I/O Data Transfer Rate, Max (MB/s)	300	300	300
Sequential Read/Write Command Rate (MB/s)			
Peak, 128KB	240/220	240/220	240/220
Sustained, 128KB	200/100	200/60	200/30
Random Read/Write Command Rate (IOPS)			
Peak, 4KB	30,000/25,000	30,000/25,000	30,000/25,000
Sustained, 4KB	25,000/5200	25,000/5200	25,000/2600
Configuration/Reliability			
Unrecoverable Read Errors per Bits Read			
New, Max	1 LBA per 10E16	1 LBA per 10E16	1 LBA per 10E16
EOL, Max	1 LBA per 10E15	1 LBA per 10E15	1 LBA per 10E15
Annualized Failure Rate (AFR)	0.44%	0.44%	0.44%
Power Management			
5V Start Max Current (A)	0.83	0.80	0.83
Average Idle Power (W)	0.75	0.70	0.65
Average Operating Power (W)	1.30	0.80	0.80
Environmental			
Ambient Temperature (C°)			
Operating	5 to 60	5 to 60	5 to 60
Nonoperating	-40 to 70	-40 to 70	-40 to 70
Temperature Change per Hour, Operating, Max	20	20	20
Temperature Change per Hour, Nonoperating, Max	20	20	20
Shock, 0.5ms (Gs)			
Operating, Max	1500	1500	1500
Nonoperating, Max	1500	1500	1500
Relative Humidity, Noncondensing (%)			
Operating	5 to 95	5 to 95	5 to 95
Nonoperating	5 to 95	5 to 95	5 to 95
Vibration, <2000Hz (Grms)			
Operating	16	16	16
Nonoperating	16	16	16
Physical			
Height (in/mm)	0.276/7.0	0.276/7.0	0.276/7.0
Width (in/mm)	2.76/70.1	2.76/70.1	2.76/70.1
Length (in/mm)	3.96/100.53	3.96/100.53	3.96/100.53
Weight, typical (lb/g)	0.298/135	0.298/135	0.298/135
Warranty			
Limited Warranty (years)	5	5	5

¹ One gigabyte, or GB, equals one billion bytes and one terabyte, or TB, equals one trillion bytes when referring to drive capacity.

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