

SATADIMM™ SSD

SATADIMM™ Solid State Drive

SATADIMM™ is an Enterprise Solid State Drive (SSD) in a DIMM form factor. With high-capacity, high-performance, advanced flash management and wear leveling, this solution enables users to significantly increase the capacity and storage performance of their existing server, storage or cloud computing solution/appliances.

Features

High-Capacity Enterprise SSD

Best in class SATA 6Gb performance

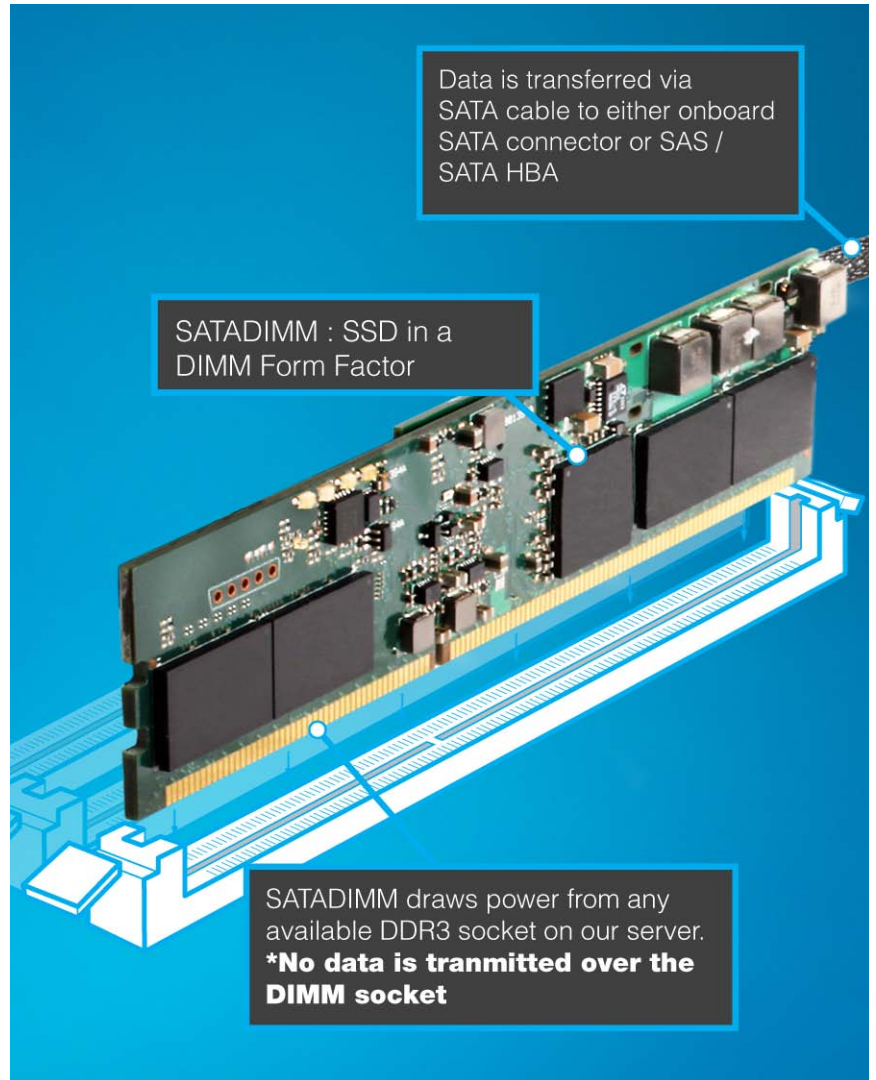
No data loss upon power failure

MLC/SLC NAND Support

Advanced SSD-specific SMART Command support

Data compression for industry-leading endurance

Protection against catastrophic flash sector/page/block failures



SATADIMM Applications

SATADIMM Applications		
Array	Boot	Cache

Mitigate Human Error

Booting and caching are just two applications where the removability of a hard drive form factor can be problematical. Imagine the ramifications of a degraded or downed system resulting from an operator removing the boot or cache drive by mistake. The ultra-reliable SATADIMM™ is safely stored away inside the server ensuring this sort of catastrophe is easily avoidable.

SATADIMM™ SSD PRODUCT SPECIFICATIONS

Capacity

SLC	Up to 200GB
MLC / eMLC	Up to 480GB (512GB Raw)

Performance

Sustained Read / Write	Up to 520MB/s
Sustained Random R/W	Up to 60,000 IOPS

Environmental

Shock	50g, 11ms, 3 shocks applied in each direction, 3 axes
Vibration	16.4g rms 10-2,000 Hz, 3 axes
Temperature	0°C to +70°C (commercial) -40°C to +85°C (industrial)
Compliance	FCC, CE, TUV

Dimensions

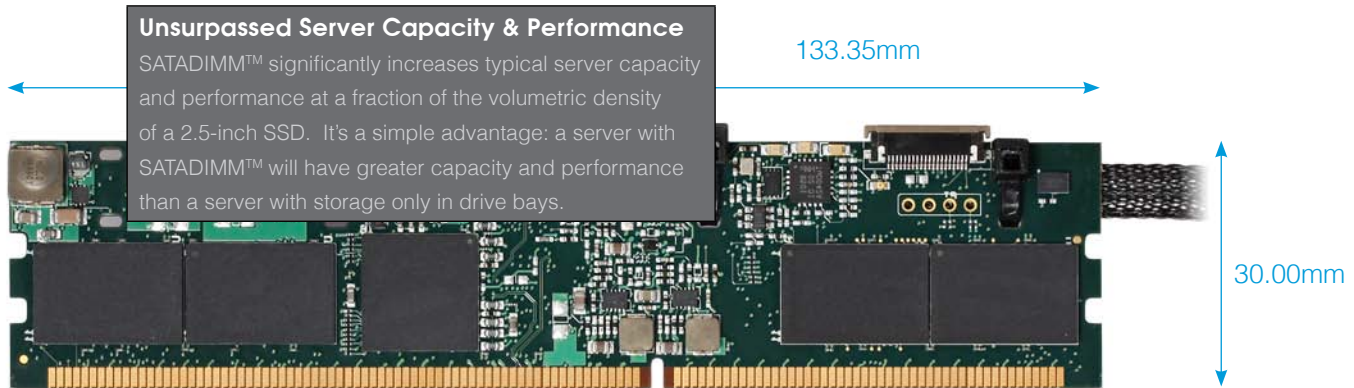
Form factor	JEDEC MO-269
Interface	Standard SATA 6Gb/s

Power

Voltage	1.25 - 1.5V
Active (typical)	<6.0 watts
Idle	0.5 watts

Reliability

ECC	55 bit BCH
Bit Error Rate (BER)	<1 in 10 ¹⁷ bits read
Tiered Error Protection	Data recovery from sector/page/block failures
Endurance	5 years



Unsurpassed Server Capacity & Performance

System Goals	Server Storage Deployment Methodology	
	Drive Bays + SATADIMMs	Drive Bays Only
Highest storage performance	•	
Highest storage capacity	•	
Highest SSD cache hit ratio	•	
Most DRAM capacity		•

Global Locations

US Headquarters	Europe	Asia Pacific	Japan
20091 Ellipse Foothill Ranch, CA 92610 Toll Free: +1 800 338 2361 Main: +1 949 643 7255 Fax: +1 949 643 7250	Lerchenstrasse 1 D-91710 Gunzenhausen Germany Phone: +49 2921 981 6463	No 2 Chai Chee Drive Singapore, 109840 Phone: +65 6839 8008	Shinagawa Grand Central Tower 6F 2-16-4 Konan, Minato-ku, Tokyo 108-0075, Japan Phone: +81-3-6863-5351