enterprise OCZ DENEVA SOLID-STATE DRIVES

# Overview: Deneva Reliability Series

# Key Features:

- SATA 3Gbps
- MLC Flash

ECHNOLOGY =

- 2.5" Form Factor
- 280 MB/s Read
- 270 MB/s Write
- 50,000 IOPS (4K)
- TRIM support
- ECC Protection
- Power Loss Data Protection
- AES-128 Encryption

# Design & Technology:

Deneva Reliability Solid State Drives are designed to provide the best of both worlds exceptional performance with the latest cuttingedge technology paired with unparalleled reliability. The Deneva Reliability pushes the limits in both large and small file speeds with up to 280MB/s and 50,000 IOPS (4KB random write). With an emphasis on endurance, the Deneva Reliability is an enterprise-class solution that utilizes MLC NAND flash to deliver outstanding maximized read and write performance. Along with best-in-class reliability and all the benefits of SSD technology including faster access times, lower power consumption, and superior durability compared to conventional hard drives, Deneva Reliability provides advanced ECC protection, encryption, and block management.

### **Ordering Information**

Deneva Reliability MLC 100GB	DENRSTE251M45-0100
Deneva Reliability MLC 200GB	DENRSTE251M45-0200
Deneva Reliability MLC 400GB	DENRSTE251M45-0400

(SLC)	and i. (applicable mis
-	Data centers
_	Cloud computing
-	Web Servers
-	Video on demand
_	Data warehousing
-	Caching of tier 2 storage
( reliable	storade requiring fast de

Tier 2: (reliable storage requiring fast data access)

General	pulpose	Servers	( lasi	uer	د ۲

#### Tier 3: (speed per dollar requirement)

-	Video	and	audio	editing	

- CAD, photo editing & 3D rendering
- Scientific computing and research
- Highly complex financial & statistical models
- Programming, engineering, and design

High performance storage networks

Green storage

Tier 0 (SLC) and 1: (applicable mission-critical storage)

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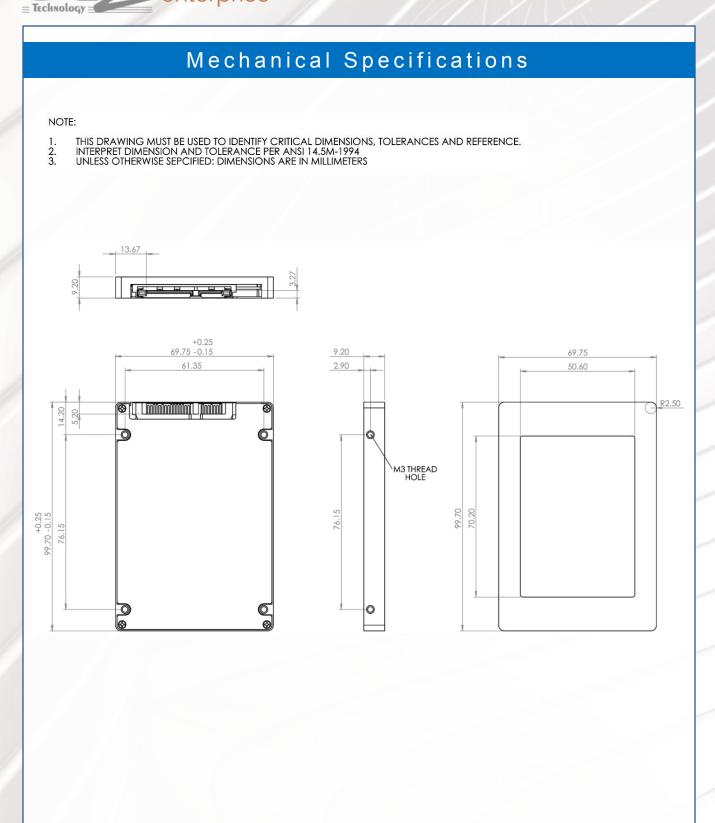
= Technology =	100GB/200GB	400GB		
pecifications:	10000,20000	10005		
	PERFORMA	NCE		
Max Read <sup>1</sup>	up to 280 MB/s	up to 250 MB/s		
Max Write1	up to 270 MB/s	up to 225 MB/s		
4KB Random Write <sup>2</sup>	50,000 IOPS	17,500 IOPS		
Seek Time	0.1 ms	0.1 ms		
	PHYSICA	A L		
Usable Capacities (IDEMA)	100GB, 200GB, 400GB			
NAND Components	Multi-Level Cell (MLC)			
Interface	SATA II / 3Gbps			
Form Factor	2.5 Inch			
Controller	SandForce 1565			
Dimensions (L x W x H)	99.8 x 69.63 x 9.3 mm			
Weight	77g (may vary slightly depending on capacity)			
	ENVIRONME	NTAL		
Power Consumption	Idle: 0.5 Watts Active: 2 Watts			
Operating Temperature	0 C ~ +55 C			
Storage Temperature	-45 C ~ +85 C			
Shock Resistance	1500G			
Certifications	RoHS, CE, FCC			
	RELIABILI	I T Y		
MTBF <sup>3</sup>	10 million hours			
Power Loss Data Protection	Built in backup power circuitry			
ECC Recovery	Up to 24 bytes correctable per 512-byte sector			
Unrecoverable Read Errors	Read unrecoverable bit error rate (UBER) 10e-	-17		
Data Encryption	128-bit AES-compliant			
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technolo	ogy (SMART)		
	СОМРАТІВІ	LITY		
Serial ATA (SATA)	Fully compliant with Serial ATA International Organization: Serial ATA Revision 2.6. Fully compliant with ATA/ATAPI-7 Standard Native Command Queuing (NCQ)			
Operating System	Windows XP 32-Bit and 64-Bit; Windows Vista 32-Bit & 64 Bit; Windows 7 32-Bit and 64-Bit; Linux			
Power Requirements	Standard SATA Power Connector			
	ADDITIONAL FE	EATURES		
Performance Optimization	TRIM (requires OS support)			
Service & Support	3-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support, Firmware Updates			

<sup>1</sup> Maximum Sequential Speeds are determined using ATTO

<sup>2</sup> Small file I/O performance is measured using Iometer 2008, Queue Depth 32, 4KB Aligned

<sup>3</sup> Specification is based on the MTBF of the SandForce 1565 controller

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