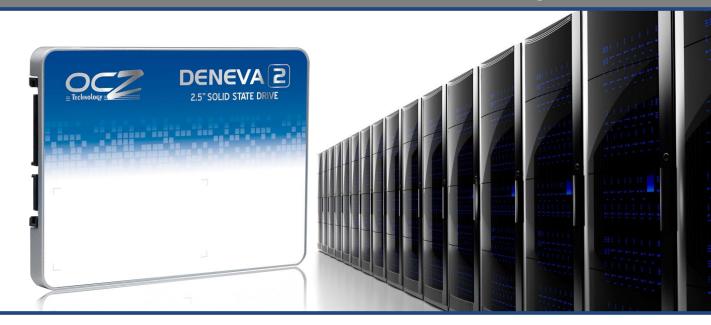


Deneva 2 R Series Storage Solutions



Deneva 2 SATA 3.0 Solid State Drives - 2.5" eMLC

R Series at a Glance

- Leading-edge SATA 6Gb/s storage solution designed to dramatically increase productivity & application performance
- High endurance eMLC-based design with best-in-class reliability & features
- Advanced feature-set includes power loss data protection

Raising the Bar in Performance

- Nearly double the speed of the previous generation
- Delivers the performance of hundreds of hard disk drives in a single server
 - Over 550MB/s of throughput
 - Up to over 80,000 4K random write IOPS

Reliable, Longer-Lasting, & Secure

- DataWrite Assurance $^{\text{TM}}$ (data preservation in case of sudden power loss)
- Data fail recovery ensures superior reliability
- Maximized product lifespan with write amplification as low as 0.2
- Intelligent block management & wear-leveling for increased endurance
- Advanced security with 128-bit AES encryption support
- Strong error correction for enhanced data integrity

Flexible Design with a Wide Array of Configurations

 Deneva 2 comes in an industry-standard 2.5" model; however, its unique architecture can be tailored to fit specific applications

Cost-Savings that Other SSD Lines Cannot Deliver

- Alternative flash options provide a greater spectrum of price per IOPS
- Support for next generation NAND flash geometries

KEY DIFFERENTIATORS:

- Highest performing SSD in its class
- Unique eMLC design for maximum endurance in enterprise applications
- Sophisticated flash management increases drive life by up to five times the rated NAND flash P/E cycles
- Unique ability to customize form factor, functionality (i.e. firmware), & components
- Robust feature-set including enterpriseclass ECC, data reliability, data path parity protection, and power fail protection

OCZ Deneva 2 SSDs are designed and manufactured to solve today's enterprise storage challenges and address the limitations hard drive technology imposes on IT infrastructures. The Deneva 2 Series delivers the industry's best performance while meeting the stringent reliability, security, and economical needs of enterprise storage environments including cloud storage, web-serving, and data warehousing. Providing a lucrative option for datacenters, Deneva 2 maximizes IOPS per dollar enabling increased data throughput with lower power consumption and a smaller operating footprint.

enterprise



enterprise Deneva 2 R eMLC Series Specifications

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100GB ~ 400GB Usable Capacities (IDEMA)

NAND Components Synchronous-Mode Enterprise Multi-Level Cell (eMLC)

Interface Serial ATA (SATA) 6Gb/s

Form Factor

SandForce® 2582 NAND Controller

Dimensions (L x W x H) 100 x 69.75 x 9.20 mm

Weight 83g (may vary slightly due to capacity)

PERFORMANCE

Max Read up to 550 MB/s

Max Write up to 530 MB/s

up to 59,000 IOPS Random Read Operations (4kB)

Random Write Operations (4kB) up to 81,000 IOPS

ENVIRONMENTAL

Idle: 1.3 Watts Active: 2.85 Watts **Power Consumption**

0°C ~ 55°C **Ambient Temperature**

0°C ~ 70°C Operating Temperature

Storage Temperature

RoHS, CE, FCC, KCC, C-Tick, BSMI VCCI Certifications

RELIABILITY/SECURITY

MTBF

Power Fail Protection DataWrite Assurance™ Technology (capacitance power back-up to ensure data hardening)

Data Fail Recovery Recovers data from up to one NAND flash block

Data Path Protection ECC: Up to 55 bits correctable per 512-byte sector

Data Reliability Read Unrecoverable Bit Error Rate (UBER) 10e-17

Data Encryption 128-bit AES-compliant

Product Health Monitoring Self-Monitoring, Analysis and Reporting Technology (SMART) Support w/ enterprise attributes

COMPATIBILITY

Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with Serial ATA

ATA/ATAPI-8 Standard Native Command Queuing (NCQ)

Windows XP 32-bit / 64-bit; Windows Vista 32-bit / 64-bit; Windows 7 32-bit / 64-bit; Linux; Mac OS X Operating Systems

Standard SATA Power Connector Power Requirements

ADDITIONAL FEATURES

Performance Optimization TRIM (requires OS support)

Service & Support

NAME	TYPE	RAW	IDEMA	WRITE ENDURANCE	PART NUMBER	UPC
Deneva 2 R	2.5" eMLC	128GB	100GB	Up to 19 PB	D2RSTK251E19-0100	842024031031
Deneva 2 R	2.5" eMLC	256GB	200GB	Up to 38 PB	D2RSTK251E19-0200	842024031048
Deneva 2 R	2.5" eMLC	512GB	400GB	Up to 76 PB	D2RSTK251E19-0400	842024031055