

Deneva 2 C Series Storage Solutions



Deneva 2 SATA 3.0 Solid State Drives – 2.5” MLC

C M14 Series at a Glance

- Leading-edge SATA 6Gb/s storage solution designed to dramatically increase productivity & application performance
- Premium Toggle Mode MLC-based design with best-in-class endurance & reliability

Performance Second to None

- Industry's fastest SATA solution maximizes I/O operations
- Delivers the performance of hundreds of hard disk drives in a single server
 - Over 500MB/s of throughput
 - Up to 75,000 4K random write IOPS

Reliable, Longer-Lasting, & Secure

- 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 MLC-based SSD
- Ultra-high endurance for enterprise applications (increases drive life by up to five times the rated P/E cycles of the NAND flash)
- Unique ability to customize form factor, functionality (i.e. firmware), & components
- Robust feature-set including enterprise-class ECC, data reliability, and data path parity 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

**PHYSICAL**

Usable Capacities (IDEMA)	60GB ~ 240GB
NAND Components	Toggle-Mode Multi-Level Cell (MLC)
Interface	Serial ATA (SATA) 6Gb/s
Form Factor	2.5 inch
NAND Controller	SandForce® 2281
Dimensions (L x W x H)	99.7 x 69.75 x 9.2 mm
Weight	88g (may vary slightly due to capacity)

PERFORMANCE

Max Read	up to 550 MB/s
Max Write	up to 510 MB/s
Random Read Operations (4kB)	up to 50,000 IOPS
Random Write Operations (4kB)	up to 75,000 IOPS

ENVIRONMENTAL

Power Consumption	Idle: 1.65 Watts Active: 3 Watts
Operating Temperature	0°C ~ 55°C
Storage Temperature	-45°C ~ 85°C
Certifications	RoHS, CE, FCC

RELIABILITY/SECURITY

MTBF	2 million hours
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-16
Data Encryption	128-bit AES-compliant
Product Health Monitoring	Self-Monitoring, Analysis and Reporting Technology (SMART) Support

COMPATIBILITY

Serial ATA	Fully compliant with Serial ATA International Organization: Serial ATA Revision 3.0. Fully compliant with ATA/ATAPI-8 Standard Native Command Queuing (NCQ)
Operating Systems	Windows XP 32-bit / 64-bit; Windows Vista 32-bit / 64-bit; Windows 7 32-bit / 64-bit; Linux; Mac OS X
Power Requirements	Standard SATA Power Connector

ADDITIONAL FEATURES

Performance Optimization	TRIM (requires OS support)
Service & Support	3-Year Warranty; Dedicated FAE/FSE support (includes PM/engineer support through validation cycle)

PRODUCT	TYPE	RAW Capacity	IDEMA Capacity	PART NUMBER	UPC
Deneva 2 C M14 Series	2.5" MLC	64GB	60GB	D2CSTK251M14-0060	842024029472
Deneva 2 C M14 Series	2.5" MLC	128GB	120GB	D2CSTK251M14-0120	842024028222
Deneva 2 C M14 Series	2.5" MLC	256GB	240GB	D2CSTK251M14-0240	842024028239