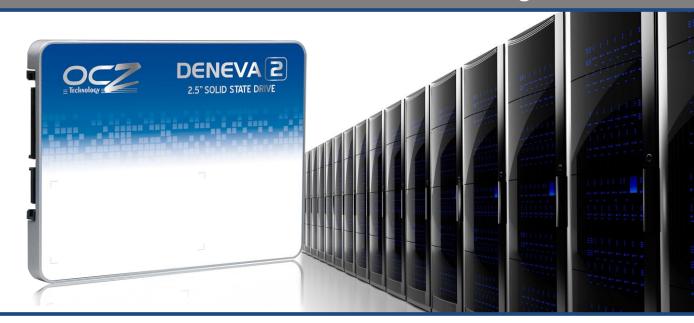


Deneva 2 C Series Storage Solutions



Deneva 2 SATA 3.0 Solid State Drives – 2.5" MLC

C Series at a Glance

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

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 500MB/s of throughput
 - Up to 60,000 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 SSD in its class
- 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 enterpriseclass 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 Deneva 2 C MLC Series Specifications

PHYSICAL	2.5" Deneva 2 C Series (Sync)	2.5" Deneva 2 C Series (Async)	
Usable Capacities (IDEMA)	60GB ~ 480GB	60GB ~ 480GB	
NAND Components	Synchronous-Mode Multi-Level Cell (MLC)	Asynchronous-Mode Multi-Level Cell (MLC)	
Interface	Serial ATA (SATA) 6Gb/s	Serial ATA (SATA) 6Gb/s	
Form Factor	2.5 inch	2.5 inch SandForce® 2281	
NAND Controller	SandForce® 2281		
Dimensions (L x W x H)	100 x 69.75 x 9.2 mm	100 x 69.75 x 9.2 mm	
Weight	83g (may vary slightly due to capacity) 83g (may vary slightly due to capacity)		
PERFORMANCE			
Max Read	up to 550 MB/s	up to 525 MB/s	
Max Write	up to 520 MB/s	up to 500 MB/s	
Random Read Operations (4kB)	40,000 IOPS	35,000 IOPS	
Random Write Operations (4kB)	60,000 IOPS	45,000 IOPS	
ENVIRONMENTAL			
Power Consumption	Idle: 1.65 Watts Active: 3 Watts	Idle: 1.5 Watts Active: 2.7 Watts	
Ambient Temperature	0°C ∼ 55°C	0°C ∼ 55°C	
Operating Temperature	0°C ∼ 70°C	0°C ∼ 70°C	
Storage Temperature	-45°C ~ 85°C	-45°C ~ 85°C	
Certifications	RoHS, CE, FCC	RoHS, CE, FCC	
RELIABILITY/SECURITY			
MTBF	2 million hours		
Data Fail Recovery	Recovers data from up to one NAND flash block (available on 120GB and up)		
Data Path Protection	ECC: Up to 55 bits correctable per 512-byte sector		

COMPATIBILITY

Product Health Monitoring

Data Reliability

Data Encryption

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)

Self-Monitoring, Analysis and Reporting Technology (SMART) Support

Read Unrecoverable Bit Error Rate (UBER) 10e-16

128-bit AES-compliant

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

CAPACITY	PART NUMBER	UPC
64GB/60GB	D2CSTK251A20-0060	842024029908
128GB/120GB	D2CSTK251A20-0120	842024029915
192GB/180GB	D2CSTK251A20-0180	842024030485
256GB/240GB	D2CSTK251A20-0240	842024029922
384GB/360GB	D2CSTK251A20-0360	842024031239
512GB/480GB	D2CSTK251A20-0480	842024029939

	CAPACITY	PART NUMBER	UPC
	64GB/60GB	D2CSTK251M21-0060	842024029861
U	128GB/120GB	D2CSTK251M21-0120	842024029878
Z	256GB/240GB	D2CSTK251M21-0240	842024029885
S	512GB/480GB	D2CSTK251M21-0480	842024029892

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