

Deneva 2 C シリーズ ストレージ ソリューション



Deneva 2 SATA 3.0 Solid State Drives – 2.5” MLC

C シリーズの概要

- 生産性 & アプリケーションの性能を劇的に向上させる最先端の SATA 6Gb/s ストレージソリューション
- クラス最高の耐用性と信頼性を兼ね備えた、コスト効率の良い MLC ベースのデザイン

SATA 3.0 インターフェース：より高い性能の実現へ

- ・ 前世代製品よりも約2倍の転送速度
- ・ ハードディスク・ベースのシングルサーバよりも数千倍高い性能
 - 500MB/s以上の転送速度
 - 最大 85,000 4K ランダムライト IOPS

信頼性、耐用性、そしてセキュリティ機能

- ・ データフェイル・リカバリ機能により、卓越した信頼性を確保
- ・ インテリジェントなブロックマネジメントとウェアレベル
- ・ インテリジェントブロック・マネジメント&ウェアレベリング機能により、耐用性の向上
- ・ 256-bit AES エンクリプション対応により、優れたセキュリティ機能を実現
- ・ 強化されたエラー訂正機能により、拡張されたデータの安全性

顧客の要望に応える柔軟性のある製品仕様

- ・ Deneva 2 は、業界標準の2.5”モデルを採用、しかし顧客要望に合うようにSSDの仕様を変更することが可能
- ・ 顧客のアプリケーションに最適なNAND flash タイプを選択可能
- ・ 次世代のNAND flashメモリに対応

KEY DIFFERENTIATORS:

- Highest performing SSD in its class
- Ultra-high endurance for enterprise applications (increases drive life by up to 5x 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.

お問い合わせ先



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
NAND Controller	SandForce® 2281	SandForce® 2281
Dimensions (L x W x H)	99.7 x 69.75 x 9.2 mm	99.7 x 69.75 x 9.2 mm
Weight	88g (may vary slightly due to capacity)	88g (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 (up to 85,000 IOPS)	45,000 IOPS (up to 85,000 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
Data Reliability	Read unrecoverable bit error rate (UBER) 10e-16
Data Encryption	128-bit & 256-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 System	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)

SYNC	CAPACITY	PART NUMBER	UPC	ASYNC	CAPACITY	PART NUMBER	UPC
	64GB/60GB	D2CSTK251M11-0060	842024028482		64GB/60GB	D2CSTK251A10-0060	842024026990
	128GB/120GB	D2CSTK251M11-0120	842024026372		128GB/120GB	D2CSTK251A10-0120	842024027003
	256GB/240GB	D2CSTK251M11-0240	842024026389		256GB/240GB	D2CSTK251A10-0240	842024027010
	512GB/480GB	D2CSTK251M11-0480	842024026396		512GB/480GB	D2CSTK251A10-0480	842024028956

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**PHYSICAL**

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PRODUCT		CAPACITY			ORDERING	
NAME	TYPE	RAW	IDEMA	WRITE ENDURANCE*	PART NUMBER	UPC
Deneva 2	2.5" SLC	32GB	30GB	Up to 15PB	D2CSTK251S14-0030	842024029045
Deneva 2	2.5" SLC	64GB	60GB	Up to 30PB	D2CSTK251S14-0060	842024027522
Deneva 2	2.5" SLC	128GB	120GB	Up to 60PB	D2CSTK251S14-0120	842024027515