

Talos 2 R Series Storage Solutions



Talos 2 SAS Enterprise Solid State Drives

R Series at a Glance

- Premium full duplex, dual-port SAS 6Gb/s storage solution with compact 2.5" form factor for drop-in deployment
- Cost-effective MLC-based design with best-in-class endurance & reliability
- Advanced feature-set includes power loss data protection
- Ideal for applications that benefit from increased 4K, 8K, and 16K IOPS

Mixed-Workload Power House

- Superior mixed-workload performance for increased throughput
 - 54,000 IOPS 4K Random (75% Read; 25% Write)
 - 42,000 IOPS 8K Random (75% Read; 25% Write)
- Substantially improved performance with simultaneous read and write operations

Proprietary Virtualized Controller Architecture™ (VCA) 2.0

- Optimizes Talos 2 for enterprise environments and mixed-workloads
 ensuring excellent overall performance
- Intelligent complex command queuing structure with unique queue balancing algorithms

Reliable, Longer-Lasting, & Secure

- DataWrite Assurance[™] (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

KEY DIFFERENTIATORS:

- True dual-ported, full duplex solution with two active channels
- Highest performing SSD in its class
- Complete power fail protection & drive-level recovery in high capacity 2.5-inch model
- Ultra-high endurance design for enterprise applications (increases drive life by up to five times the rated P/E cycles of the flash)

The 2.5-inch OCZ Talos 2 Series is designed to deliver unparalleled performance, reliability, and enterprise features to meet the demands of today's I/O-intensive applications. With storage capacities up to 1TB, Talos 2 features a leading-edge SAS design that far surpasses the throughput capabilities of even the most advanced enterprise hard drives. Talos 2 SSDs leverage VCA 2.0 to boost transactional performance and provide a complete range of enhanced features, making it the ideal drop-in replacement for multiple hard drives in enterprise storage systems. Datacenters can now deploy an SSD solution that delivers superior application performance, all the necessary enterprise capabilities, and substantial power savings, at a significantly improved total cost of ownership.

enterprise

OCZ enterprise Talos 2 R Series Specifications

PHYSICAL						
Usable Capacities (IDEMA)	200GB	, 400GB, 800GB				
NAND Components	Synchr	Synchronous Mode Multi-Level Cell (MLC)				
Interface	Dual-P	ort SAS 6.0 Gbit/s (Full	Duplex/Active-Active)			
Form Factor	2.5 incl					
Dimensions (L x W x H)	100.0	100.0 x 69.85 x 14.5 mm				
Weight	155g (may vary slightly due to ca	pacity)			
PERFORMANCE						
Bandwidth	up to 5	50 MB/s (read); up to 3	75 MB/s (write)			
Random Operations (4kB)	70,000	70,000 IOPS (read); 35,000 IOPS (write)				
Mixed Workload (75% R; 25% V	V) 54,000	54,000 IOPS (4kB random); 42,000 IOPS (8kB random)				
ENVIRONMENTAL						
Power Consumption	Idle: 5.	Idle: 5.1 Watts Active: 7.4 Watts				
Ambient Temperature	0°C ~	0°C ~ 55°C				
Operating Temperature	0°C ~	0°C ~ 70°C				
Storage Temperature	-45°C -	-45°C ~ 85°C				
Certifications	RoHS,	CE, FCC				
RELIABILITY/SECURITY						
MTBF	2 millio	2 million hours				
Power Fail Protection	DataW	DataWrite Assurance™ Technology (capacitance power back-up to ensure data hardening)				
Data Fail Recovery	Recove	Recovers data from up to one NAND flash block per NAND controller				
Data Path Protection	ECC: L	ECC: Up to 55 bits correctable per 512-byte sector; Data path parity protection				
Data Reliability	Read L	Read Unrecoverable Bit Error Rate (UBER) 10e-17				
Data Encryption	128-bit	128-bit AES-compliant				
Product Health Monitoring	Self-Mo	Self-Monitoring, Analysis and Reporting Technology (SMART) Support w/ enterprise attributes				
COMPATIBILITY						
SAS (Serial Attached SCSI)	SAS SF	SAS SFF-8482 cable with LP4 power connector				
T10-DIF (Data Integrity Field)	Availat	Available; please contact OCZ representative				
Operating Systems	Window	ws XP 32/64-bit; Windo	ws Vista 32/64-bit; Windo	ws 7 32/64-bit; Windows Server 2	2008 R2; Linux	
ADDITIONAL FEATURES	_					
Performance Optimization	SCSIL	Inmap (requires OS su	oport)			
Flash Virtualization Layer	OCZ V	OCZ VCA (Virtualized Controller Architecture™) 2.0				
Secure Erase	Enable	d via OCZ Toolbox(W	indows and Linux version	s)		
Service & Support	3-Year	Warranty; Dedicated F.	AE/FSE support (includes	PM/engineer support through v	alidation cycle)	
PRODUCT FORM	A FACTOR	RAW CAPACITY	IDEMA CAPACITY	PART NUMBER	UPC	
Talos 2 R Series	2.5"	256GB	200GB	TL2RSAK2G2M1X-0200	84202402978	
2 Talos 2 R Series	2.5"	512GB	400GB	TL2RSAK2G2M1X-0400	84202402979	

800GB

Talos 2 R Series Talos 2 R Series

2.5"

1024GB

© 2011 OCZ Technology Group, Inc. All rights reserved.

842024029809

TL2RSAK2G2M1X-0800