OCZ Z-Drive R3 p84

PCI-Express x8 Solid State Drive

Key Features:

- PCI-Express Gen2 x8
- Bootable
- MLC Flash
- 1,000 MB/s Read
- 970 MB/s Write
- 135,000 IOPS (4K)
- ECC Protection
- Power Loss Protection
- AES-128 Encryption

Design & Technology:

The all-new Z-Drive R3 PCI-Express SSD is a sophisticated all-in-one solution designed to push enterprise-class solid state storage to the extreme. Based on award-winning architecture, the Z-Drive R3 eliminates the I/O bottlenecks attributable to inferior interface and storage technology and creates new possibilities in enterprise data management. The Z-Drive R3 is capable of delivering a full gigabyte of data per second and up to 135,000 random write IOPS all with an elegant and small form factor that makes for an easy upgrade for virtually any workstation or server farm that's falling behind with SATA or SAS hard drives. Unlike HDD arrays, a single Z-Drive can tackle and thrive in intensive workload environments while diminishing potential failure points along the way. Furthermore, the R3 provides advanced reliability features including world-class power loss data protection, endurance, encryption, and ECC protection. Setting out to revolutionize storage infrastructures, the Z-Drive R3 is the ultimate solution for clients who place a premium on sustainable performance, overall efficiency, and superior total cost of ownership (TCO).

Applications:

Tier 1: (applicable mission-critical storage)

- Data centers
- Cloud computing
- Video on demand
- Data warehousing
- Caching of tier 2 storage

Tier 2: (reliable storage requiring fast data access)

- General purpose servers (fast tier 2)
- High performance storage networks
- Green storage

Tier 3: (speed per dollar requirement)

- Video and audio editing
- CAD, photo editing & 3D rendering
- Scientific computing and research
- Highly complex financial & statistical models
- Programming, engineering, and design
- Computer Gaming

	Part Numbers	UPC
OCZ Z Drive R3 P84 300GB	OCZSSDPX-ZD3P84300G	842024023623
OCZ Z Drive R3 P84 600GB	OCZSSDPX-ZD3P84600G	842024023340
OCZ Z Drive R3 P84 1.2TB	OCZSSDPX-ZD3P841.2T	842024023364

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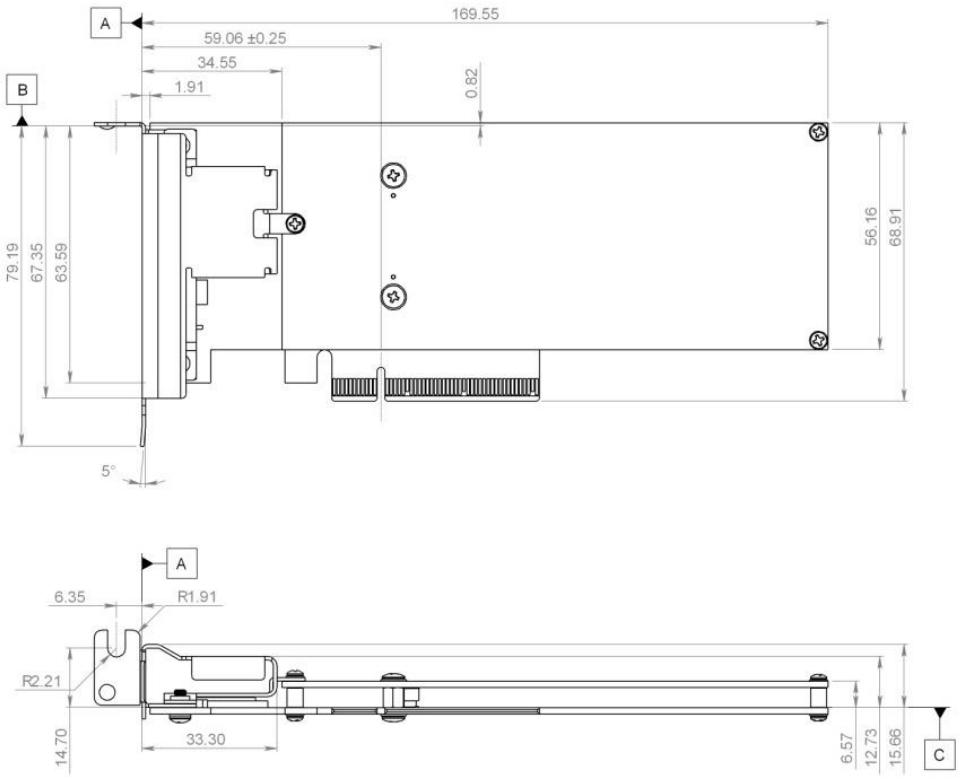
Specifications:

PERFORMANCE	
Max Read[1]	Up to 1000 MB/s
Max Write[1]	Up to 970 MB/s
Sustained Write[2]	Up to 900 MB/s
4KB Random Write[3]	135,000 IOPS
Seek Time	0.1 ms
PHYSICAL	
Usable Capacities (IDEMA)	300GB, 600GB, 1.2TB
NAND Components	Multi-Level Cell (MLC)
Interface	PCI Express 2.0
Form Factor	X8 slot, half height, half length
Controller	4x SandForce 1565
Dimensions (L x W x H)	169.55 x 79.19 x 19.24 mm
Weight	139g
ENVIRONMENTAL	
Power Consumption	Idle: 6 Watts Active: 14 Watts
Operating Temperature	0°C ~ +70°C
Storage Temperature	-45°C ~ +85°C
Shock Resistance	1500G
Certifications	RoHS, CE, FCC
RELIABILITY/PROTECTION/SECURITY	
MTBF	10 million hours
Power Loss Protection	Built-In Super Capacitor
ECC Recovery	Up to 24 bytes correctable per 512-byte sector
Unrecoverable Read Errors	Read unrecoverable bit error rate (UBER) 10e-17
Data Encryption	128-bit AES-compliant
COMPATIBILITY	
PCI-Express	Fully compliant with the PCIe Electromechanical Specification Rev. 2.0, and with the PCI-Express Base Specification Rev. 2.0
Operating System	Windows XP 32-Bit and 64-Bit; Windows Vista 32-Bit & 64 Bit; Windows 7 32-Bit and 64-Bit; Linux
Power Requirements	PCI Express only, no external power
ADDITIONAL FEATURES	
Performance Optimization	Onboard RAID 0
Service & Support	3-Year Warranty, Toll-Free Tech Support, 24 Hour Forum Support, Engineering Support for OEMs

[1] Maximum Sequential Speeds are determined using ATTO
[2] Sustained transfer rate is measured using Iometer 2008, Queue Depth 32, 128KB
[3] Small file I/O performance is measured using Iometer 2008, Queue Depth 32, 4KB Aligned

Mechanical Specifications:



NOTE:

1. THIS DRAWING MUST BE USED TO IDENTIFY CRITICAL DIMENSIONS, TOLERANCES AND REFERENCE.
2. INTERPRET DIMENSION AND TOLERANCE PER ANSI 14.5M-1994
3. UNLESS OTHERWISE SEPCIFIED: DIMENSIONS ARE IN MILLIMETERS