



ORCA 4836 Series Enterprise NVMe SSD

PCIe Gen4 U.2 SSD supports NVME1.4, proving mainstream solutions with capacities up to 7.68TB and random read up to 1000K IOPS.

ORCA 4836 SSD supports a variety of advanced features, and provides a high-perf, low-latency, high-reliable and flexible power adjustment storage solution for Internet, cloud computing, financial and other industries.

Advanced Features

• NVMe MI 1.1	• Secure Boot & Download	• Enhanced Power Loss Protection
• Multiple Namespace	• Sanitize	• Firmware Upgrade Activate without Reset
• End-to-End Data Protection	• Thermal throttling	• Flexible Power Adjustment
• RAID	• Telemetry	

Applications



Server



Distributed storage



Cloud computing



Edge Computing



Workstation

*This version is to be updated on July 15th, 2024. Actual conditions are subject to the Longsys website.

Key Benefits

01.

Smooth and Fast Performance

With integrated enterprise performance optimization mechanisms, our product ensures consistent QoS and performance. We provide maximum sequential bandwidth of up to 6.8GB/s* and maximum input/output operations per second (IOPS) of up to 1,000K*. With over 95% steady-state performance consistency*, our products empower end users with smooth and rapid data access across a variety of business applications.
02.

Secure and Reliable

Designed specifically for enterprise users, this product prioritizes data protection for user business scenarios. It offers reliability of an average of 2 million fault-free hours of operation. Additionally, our product features multiple enterprise data protection features, such as enhanced power-off data protection, end-to-end data protection, thermal throttling, and RAID, ensuring the utmost security and safety of user data.
03.

Energy-Efficient and Cost-Effective

This product responds to the call for energy conservation by being built with the principles of green and sustainable design. With maximum power consumption of only 14W and standby power consumption of just 5W, ours is one of the rare products in the industry that can support 9 levels of power adjustment in watt units (6W to 14W). Enterprise users can flexibly adjust power consumption based on their business needs to reduce cost and save energy.

ORCA 4836 Series NVMe SSD

Series		ORCA 4836 PRO			ORCA 4836 MAX		
NAND Flash		128 layer 3D eTLC					
Form factor		2.5" U.2					
Physical dimensions (mm)		70x100x15 mm					
Host interface		PCIe Gen 4*4					
Capacity		1.92 TB	3.84 TB	7.68 TB	1.6 TB	3.2TB	6.4TB
Performance ^[1]	Sequential read*	6800MB/s	6800MB/s	6400MB/s	6800MB/s	6800MB/s	6400MB/s
	Sequential write*	2600MB/s	4600MB/s	4600MB/s	2600MB/s	4600MB/s	4600MB/s
	Random read	740K IOPS	1000K IOPS	1000K IOPS	740K IOPS	1000K IOPS	1000K IOPS
	Random write*	130K IOPS	210K IOPS	220K IOPS	260K IOPS	380K IOPS	380K IOPS
Endurance(DWPD)		1.0	1.0	1.0	2.6	3.0	3.0
Warranty Period		5 years					
Uncorrectable Bit Error Rate (UBER)		1 sector per 10^17 bits read					
Mean Time Between Failure (MTBF)		2,000,000 hours					
Power consumption		Active:<=14 W Idle:<=5W					
Operating Temp ^[2]		0~70°C					
Spec Compliance		NVM Express Base Specification1.4 PCI Express Base Specification Revision 4.0 NVM Express Management Interface Specification1.1					

[1] The performance measurement is referred to the SNIA SSS-PTS-E test specification;
[2] Case surface temperature on the center-top side of the device;

*The data comes from internal test. The actual performance may vary due to equipment differences.

