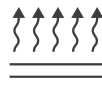




SPECIFICATIONS

Model Name	VORTIQ E43XHYV6 U.2				
Capacity	1.6TB	3.2TB	6.4TB	12.8TB	25.6TB
Flash Memory	3D NAND				
DRAM Cache	16GB DDR4	32GB DDR4	64GB DDR4	144GB DDR4	288GB DDR4
Form Factor	2.5 inch				
Interface	U.2 PCI Express Gen 4				
Compatibility	PCIe Gen4 / Gen3 / Gen2 / Gen1				
Dimensions	100mm (L) x 69.85mm (W) x 14.65.00mm (H)				
Latency Read	70 μs				
Latency Write	7 μs				
Sequential Read up to (MB/s)	7400				
Sequential Write up to (MB/s)	3,600	6,900	7,000	7,000	6,000
Random Read 4KB up to (IOPS)	1,750 KIOPS				
Random Write 4KB up to (IOPS)	300 KIOPS	460KIOPS	460 KIOPS	490 KIOPS	470 KIOPS
Maximum Operating Power (W)	13	18	19	21	20
Idle Power PS3 (mW)	5.5	5.8	5.9	7.4	8
Operating Temperatures	0°C – 70°C				
Storage Temperatures	-40°C – 85°C				
Terabytes Written (TBW)	8760	17520	35040	70080	140160
Mean Time Between Failure (MTBF)	Up to 2.0 Million Hours				
Limited Warranty	5 Years, or the coverage for the maximum TBW as stated, whichever comes first.				
Advanced Features	Logical Block Address Formats (LBAF): 512 / 512+8 / 4K / 4K+8 / 4K+64 bytes with metadata support				
	Namespaces: Supports up to 64 NVMe namespaces				
	Port Configuration: Single Port x4 or Dual Port (x2 + x2) operation for high availability				
	Reservation Command Support for multi-host access control				
	Metadata Protection				
	Thermal Throttling Mechanism for temperature control				
	Power Loss Protection (PLP) using integrated tantalum capacitors				
	Hardware AES-XTS 256-bit Encryption for data security compliance				
	SMBus Monitoring Interface				

FEATURES



HIGH ENDURANCE GUARANTEE

Features 3 DWPD (Drive Writes Per Day), specifically engineered for enterprise read/write mixed-use scenarios.



Comprehensive Data Protection

Supports End-to-End Data Path Protection to guarantee data integrity throughout the entire transmission process.



Advanced Security Encryption

Hardware AES-XTS 256-bit Encryption for data security compliance.



Hardware-Level Power Protection

Integrated Power Loss Data Protection (PLDP) prevents data loss during sudden power outages.



Industrial-Grade Vibration Resistance

Tested to withstand up to 1500G (non-operating shock), adapting to the most demanding physical environments.



3D NAND Flash

3D NAND flash technology brings dense storage in a compact design and allows storage capacities up to 960GB.



Security & Reliability

Built-in data security and error-correction capabilities extend the longevity of the NAND flash storage.



Low Latency Gaming

Enjoy minimal latency in smooth gameplay and loading games with optimized high-performance bandwidth and throughput.



MSI Center

Monitor SSD health status and key performance metrics in real time via MSI Center for stable and reliable system performance.



5 Years Warranty

MSI stands by the quality and reliability of their SSD's with a 5 year limited warranty.

TEST CONFIGURATION

Sequential and random performance, and power consumption were measured with the system configurations listed below. All performance data was tested with the SSD as a secondary drive.

Interface	U.2 PCI Express Gen 4
Operating System	Ubuntu 20.04.2 LTS
CPU	AMD Ryzen 7 3700X 8-Core Processor
Memory	Gigabyte Technology Co., Ltd. X570 AORUS MASTER
Kernel	Linux version 5.10.32-pim-20211006
RAM	DDR4 3200MHz 16GB