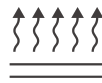




SPECIFICATIONS

Model Name	VORTIQ E21SKIB6 SATA				
Capacity	480GB	960GB	1.92TB	3.84TB	7.68TB
Flash Memory	3D NAND				
DRAM Cache	1GB DDR4	2GB DDR4	3GB DDR4	8GB DDR4	8GB DDR4
Form Factor	2.5 inch				
Interface	SATA Gen3				
Compatibility	SATA Gen3 / Gen2 / Gen1				
Dimensions	100mm (L) x 69.85mm (W) x 7.00mm (H)				
Latency Read	110 µs	110 µs	110 µs	110 µs	115 µs
Latency Write	45 µs	45 µs	45 µs	45 µs	50 µs
Sequential Read up to (MB/s)	530				
Sequential Write up to (MB/s)	500				
Random Read 4KB up to (IOPS)	94 KIOPS	98 KIOPS	98 KIOPS	98 KIOPS	98 KIOPS
Random Write 4KB up to (IOPS)	24 KIOPS	30 KIOPS	35 KIOPS	30 KIOPS	19 KIOPS
Maximum Operating Power (W)	2.7	2.8	2.9	3.2	3.3
Idle Power PS3 (mW)	1.3	1.3	1.5	1.7	1.7
Operating Temperatures	0°C - 70°C				
Storage Temperatures	-40°C - 85°C				
Terabytes Written (TBW)	876	1752	3504	7008	14016
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	Hardware-based Power Loss Protection - prevents data corruption during unexpected power failures Thermal Throttling Mechanism for temperature control End-to-End Data Path Protection - ensures data integrity throughout the transfer path TCG Opal 2.0 - complies with self-encrypting drive security standards				

FEATURES



HIGH ENDURANCE GUARANTEE

Features 1 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	SATA Gen 3 (6Gbps)
Operating System	Windows 11 Pro 21H2 OS Build 22000.778
CPU	11 th Gen Intel Core i7-11700KF @3.60GHz
Memory	Crucial DDR4-2400 8G x2
Chipset	MSI MPG Z590 GAMING CARBON WIFI
Test Program	Crystal Diskmark 8.04, ATTO Disk Benchmark V4.01.0f1, IO Meter v1.1.0