Huawei eKitStor Xtreme 200E

Basic Specifications

Form Factor	M.2 2280	
Interface Protocol	PCIe 4.0 1×4, NVMe 2.0	
Dimensions (H x W x D) (mm)	Max. 2.7 × (22.00 ± 0.15) × (80.00 ± 0.15)	
Capacity	512GB	1TB

Performance

Sequential Read (MB/s)	6600	7000
Sequential Write (MB/s)	3400	6500
Random Read@4 KB (k IOPS)	500	900
Random Write@4 KB (k IOPS)	800	1000

Reliability

Write Endurance (TBW)[3]	200	400
Mean Time Between Failures (MTBF)	1,500,000 hours	

Environmental Specifications

Temperature	Non-operating: -40°C to 85°C (-40°F to 185°F); operating: 0°C to 70°C (32°F to 158°F)	

Power Consumption

Active (Max. RMS)	<6W	<6W
Idle (L1.2)	3mW	3mW

Limited Warranty

5 years or max. endurance (TBW) limit, whichever is reached first	

Certifications

RoHS, CE, WEEE, VCCI, KC	

Notes: The specifications are subject to change without notice. Performance results are based on internal testing and use. Results and performance may vary according to configurations and systems, including device capacity, operating system versions, and test tools.
1. 1 GB = 1 billion bytes; 1 TB = 1 trillion bytes Total accessible capacity may vary depending on the operating environment.
2. 1 MB/s = 1 million bytes per second.
3. TBW (total bytes written) values are calculated using JEDEC client workload (JESD219) and vary depending on the product capacity.

HUAWEI eKit

OSs
Flexible, compatible, stable, and durable

Software
Smooth multi-task processing

Gaming platforms
Excellent game experience with safe archives

Professional-grade apps
Agile processing and efficient operation

HUAWEI eKit APP   HUAWEI eKit Store

For more information about HUAWEI eKitStor series, contact your local Huawei office or visit HUAWEI eKit website: http://ekit.huawei.com.

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Huawei eKitStor Xtreme 200E

M.2 NVMe Solid State Drive (SSD)

Redefining the DRAM-less experience

*Compatible with various M.2 2280 interface devices, including gaming consoles, desktops, and laptops.

Beyond the Xtreme for Data Acceleration
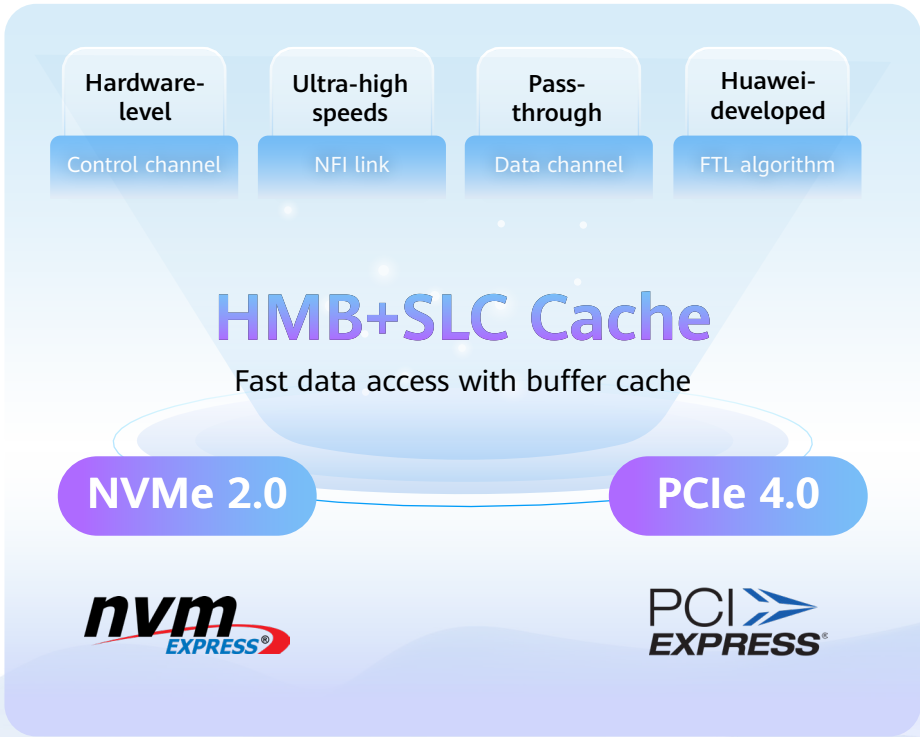
HUAWEI

Huawei eKitStor Xtreme 200E

The eKitStor Xtreme 200E is an M.2 NVMe SSD built for refined DRAM-less experience. With its high-speed read/write bandwidths, solid durability, and effortless management features, it runs smoothly under both daily office use and heavy workloads—delivering a fast, stable user experience.

XtremeLink Architecture

Ultra-high Read/Write Bandwidths

Huawei SSD runs on NVMe 2.0, an PCIe 4.0 interface, and XtremeLink architecture, and other cutting-edge technologies to enable high-speed file transfers and system response. Even with concurrent tasks and demanding workloads, it delivers consistent and stable performance.

Hardware-level	Ultra-high speeds	Pass-through	Huawei-developed
Control channel	NFI link	Data channel	FTL algorithm

HMB+SLC Cache
Fast data access with buffer cache

NVMe 2.0 — PCIe 4.0

7,000 MB/s
Sequential read bandwidth

6,500 MB/s
Sequential write bandwidth

900K IOPS
4 KB random read

1,000K IOPS
4 KB random write

*Source: Huawei lab

400 TBW

Ultimate Lifespan

Block health checks, FSP and LDPC error correction algorithms, periodic data inspection and restoration, and high-performance particles combine to deliver an excellent lifespan—with 400 Total Bytes Written (TBW) and 1.5 million hours MTBF. This disk design ensures reliable, always-on storage for whatever the workload, such as complex office tasks, high-workload design, or AAA games.

400 TBW
Creating **436** professional-grade .psd files each day

400 TBW
Producing **8** hours of vlog videos each day

400 TBW
Downloading **11** mid-size and large games each day

*These values are averages based on the following scenarios: 5 years of continuous use, a total lifespan of 400 TBW, 500 MB .psd files, 4K 60p .mp4 vlog file and a write rate of 8 MB/s, and 20 GB write volume for each game. Actual performance may vary depending on actual operating conditions.

> 1,500
Program/Erase cycles

The particles will not quickly degrade or fail due to frequent read/write operations, reducing the frequency and cost of replacing storage devices and ensuring long-term stable, secure, and reliable data storage.

Wear leveling
10% more P/E cycles

The block health check uses the wear leveling algorithm to balance the wear of particles.

Reliable data
Efficient and accurate reads

FSP and LDPC error correction algorithms ensure that data is read using the optimal voltage on the first attempt.

Fast recovery
Periodic data inspection + Restoration

Multiple data protection methods detect and recover data problems seamlessly.

eKitStor Toolkit

Effortless Management

HUAWEI eKitStor Toolkit is a cross-platform management tool for eKitStor series M.2 SSDs, providing health checks, and performance testing features. Designed for everyday and professional workloads, it ensures data resilience, system stability, and easy and efficient disk management.

Health checks
Manage devices and check the disk lifespan

Performance testing
Tests the device IOPS and bandwidth

Multiple OSs
Supports Windows and macOS

Backed by 5-Year Warranty

Proven Durability

Five-year warranty or max. endurance (TBW) limit, whichever is reached first.