

HUAWEI eKitStor Xtreme 201

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	1TB	2TB
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Performance

Sequential Read (MB/s)	7400	7400
Sequential Write (MB/s)	6700	6700
Random Read@4 KB (k IOPS)	1000	1000
Random Write@4 KB (k IOPS)	1300	1300

Reliability

Write Endurance (TBW) ³	2000	4000
Mean Time Between Failures (MTBF)	2,000,000 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)	
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Power Consumption

Active (Max. RMS)	< 4W	
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Idle (L1.2)	Supported	
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Limited Warranty

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

Certifications

RoHS, CE, WEEE, REACH, CB, and VCCI

Notes: 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.



OSs

Flexible, compatible, stable, and durable

Software

Smooth multi-task processing

Gaming platforms Professional-grade apps

Excellent game experience with safe archives

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 201

Huawei Flagship High-Endurance SSD

Extreme Performance, Built to Last.



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

Beyond the Xtreme for Data Acceleration



HUAWEI eKitStor Xtreme 201

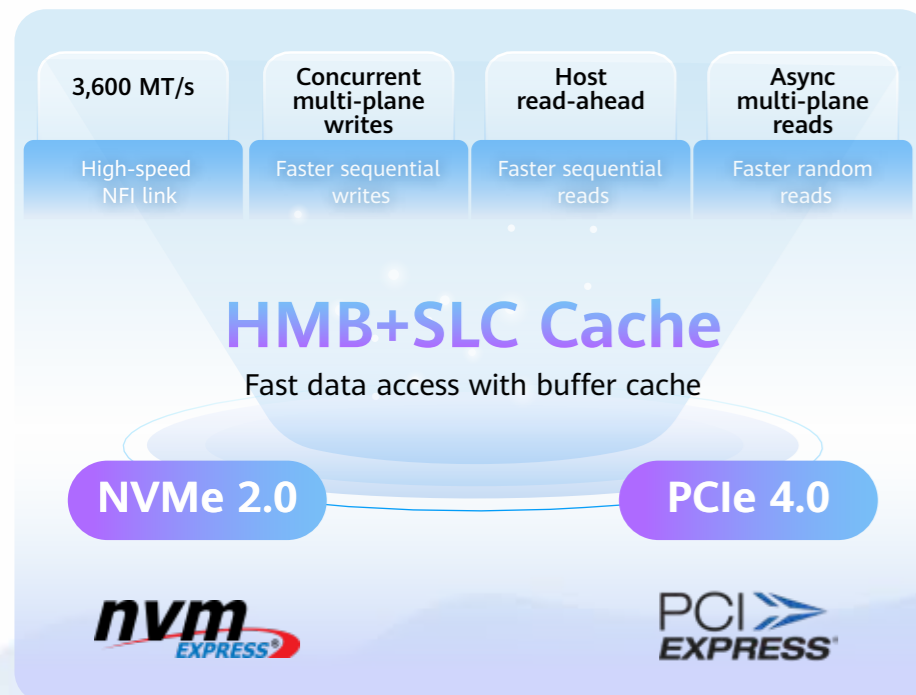
The eKitStor Xtreme 201 is an M.2 NVMe SSD built for refined DRAM-less experience. With its high-speed read/write bandwidths, solid durability, and effortless management features, it runs smoothly under both daily office use and heavy workloads—delivering a fast, stable user experience.



7,400 MB/s

Ultra-high Read/Write Bandwidths

The SSD uses the NVMe 2.0 protocol over a PCIe 4.0 interface and internally uses a 3,600 MT/s high-speed NAND Flash Interface (NFI). It optimizes multi-plane read/write to enable high-speed file transfers and system response. This ensures consistent and stable performance even with concurrent tasks and demanding workloads.



7,400 MB/s
Sequential read bandwidth

6,700 MB/s
Sequential write bandwidth

1,000K IOPS
4 KB random read

1,300K IOPS
4 KB random write

*Source: Huawei lab

4,000 TBW

Ultimate Lifespan

The write amplification factor (WAF) is improved using algorithm innovation and premium NAND flash, which gives the SSD an ultra-long lifespan of 4,000 Total Bytes Written (TBW) and 2 million hours of MTBF. This design ensures reliable, always-on storage for whatever the workload, such as complex office tasks, intensive design work, or casual entertainment.

4000 TBW

Creating **4363** professional-grade .psd files each day

4000 TBW

Producing **74** hours of vlog videos each day

4000 TBW

Downloading **18** 4K UHD movies each day

*The 4,000 TBW specification applies to the 2 TB version of eKitStor Xtreme 201. These values are averages based on 5 years of continuous use with the 4,000 TBW limit reached in the following conditions: 500 MB for each .psd file; 4K 60 fps .mp4 vlog file and a write speed of 8 MB/s; and peak bitrate of 128 Mbps for a 2-hour native 4K Blu-ray movie. Performance may vary depending on operating conditions.

Premium NAND flash

60% longer equivalent lifespan than the previous generation

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.

Intelligent algorithms

10% lower write amplification

FTL algorithm optimization and intelligent SLC caching effectively reduce write amplification and NAND flash wear.

Reliable data

Efficient and accurate reads

4K LDPC offers a stronger error correction capability to enable real-time data error detection and correction.

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.

