

Huawei eKitStor Xtreme 300P PCIe 5.0 SSD



DATA SHEET

Key Specifications

- PCIe 5.0 @ U.2
- 3.2 TB to 15.36 TB capacity
- Up to 14.8 GB/s read bandwidth and 11 GB/s write bandwidth
- Up to 3,450 k read IOPS and 900 k write IOPS
- 7 μ s ultra-low write latency
- Meantime between failures (MTBF): 2.5 million hours
- Annual failure rate (AFR): $\leq 0.35\%$
- Uncorrectable bit error rate (UBER): 10^{-18}

• High Performance

- ✓ Up to 14.8 GB/s read bandwidth
- ✓ Up to 11 GB/s write bandwidth
- ✓ Up to 3,450 k read IOPS
- ✓ Up to 900 k write IOPS
- ✓ 7 μ s ultra-low write latency

• High Reliability

- ✓ FSP and LDPC algorithms
- ✓ Dynamic RAID
- ✓ E2E data protection
- ✓ Intelligent multi-stream
- ✓ Intelligent recycling
- ✓ Health Indicator Feature

• Easy O&M

- ✓ Firmware activation in seconds
- ✓ I/O-related service function statistics
- ✓ One-click repair

Huawei eKitStor Xtreme 300P

PCIe 5.0 SSD



Technical Specifications

DATA SHEET

Model	Huawei eKitStor Xtreme 300P PCIe 5.0 SSD				
Form Factor	U.2				
Interface	PCIe 5.0 x4				
NVMe Protocol	NVMe 2.0				
NAND Flash	3D TLC				
Available Capacity	3.2 TB	3.84 TB	6.4 TB	7.68 TB	15.36 TB
Model Number	HSSD-E023T2P5V5N	HSSD-E023T8P5L5N	HSSD-E026T4P5V0N	HSSD-E027T6P5L0N	HSSD-E0215TP5L0N
Sequential Read/Write Bandwidth @128KB	14,800/8,200 MB/s	14,800/8,200 MB/s	14,800/11,000 MB/s	14,800/11,000 MB/s	14,800/11,000 MB/s
Random Read/ Write IOPS@4KB	3,000 k/720 k	3,000 k/350 k	3,450 k/900 k	3,450 k/470 k	3,300 k/500 k
Average Read/Write Latency@4KB	58/7 μs	58/7 μs	55/7 μs	55/7 μs	56/7 μs
Average Power Consumption (Idle, Active)	< 5 W, 18 W				
Endurance ¹	3 DWPD, 5 years	1 DWPD, 5 years	3 DWPD, 5 years	1 DWPD, 5 years	1 DWPD, 5 years
Max. Data Written ²	17.52 PBW	7.008 PBW	35.04 PBW	14.016 PBW	28.032 PBW
Weight (g)	< 200 g				
TRIM	Supported				
Power Failure Protection	Supported				

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Technical Specifications

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Model	Huawei eKitStor Xtreme 300P PCIe 5.0 SSD	
Chip Failure Protection	Supported	
Reliability	Meantime between failures (MTBF): 2.5 million hours Annual failure rate (AFR): ≤ 0.35% Uncorrectable bit error rate (UBER): 10 ⁻¹⁸	
Temperature	Non-operational: -40°C to 85°C (-40° F to 185°F) Operational: 0°C to 83°C (32° F to 181.4°F)	
Data Retention (Power-off)	3 months at 40°C (104°F)	
Supported Servers	Servers supporting U.2 NVMe SSD disks	
Certifications	China: RoHS Europe: WEEE Europe: RoHS Europe: REACH Europe: CE Northern America: NRTL UK: UKCA Japan: VCCI Canada: IC Australia: RCM Member States of IEEE: CB	

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 The DWPD is tested according to the JESD219 standard. An SSD can be used for five years if the DWDP stays below the specified vale. Otherwise, the SDD service life will be affected.
- 2 Max. Data Written: measured by petabyte writes (PBW)

To learn more about Huawei eKitStor products, please contact your local Huawei office or visit Huawei eKitStor website: <http://ekit.huawei.com>.



HUAWEI eKit App



HUAWEI eKit Store

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