Data Sheet

Huawei eKitStor Xtreme 300P PCIe 4.0 SSD

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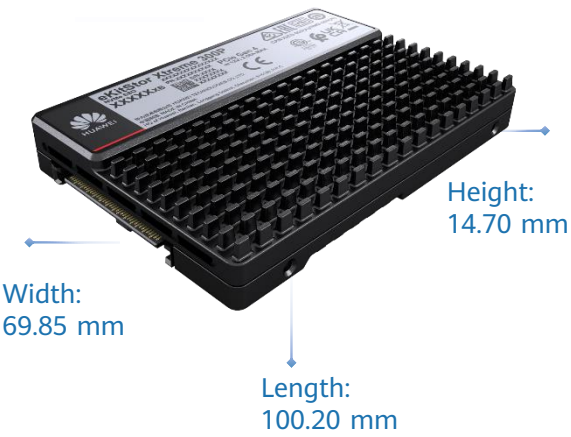
The eKitStor Xtreme 300P is an enterprise-grade NVMe PCIe SSD that features high performance, fast response, and high reliability, greatly boosting storage I/O performance. This product is compatible with mainstream operating systems and virtualization systems. It enhances service performance across databases, virtualization, and high-performance computing (HPC) while slashing system TCO. With the enhanced device management function, the eKitStor Xtreme 300P supports OS-native drivers. It also supports comprehensive hot swap for easy maintenance.

The eKitStor Xtreme 300P provides many single-disk capacity and specifications options.

- Single-disk capacity of the read-intensive model: 1,920 GB, 3,840 GB, 7,680 GB, and 15,360 GB
- Single-disk capacity of the mixed read/write model: 1,600 GB, 3,200 GB, and 6,400 GB

Key Specifications



- Max. sequential read and write bandwidths: 7.4 GB/s and 4.8 GB/s
- Max. random read and write IOPS: 1,600 k and 500 k
- Ultra-low read and write latencies: 65 µs and 12 µs

► High Performance

- ✓ High read/write bandwidth
- ✓ High read/write IOPS
- ✓ Low read/write latency

► High Reliability

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

► Easy O&M

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

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Product	eKitStor Xtreme 300P						
Model Number	HSSD-E021T9P4L1N	HSSD-E023T8P4L1N	HSSD-E027T6P4L1N	HSSD-E0215TP4L1N	HSSD-E021T6P4V1N	HSSD-E023T2P4V1N	HSSD-E026T4P4V1N
Interface Protocol	PCIe 4.0 1*4 (single-port), NVMe 1.4						
Capacity	1.92 TB	3.84 TB	7.68 TB	15.36 TB	1.6 TB	3.2 TB	6.4 TB
FTL Size	4 KB	4 KB	4 KB	8 KB	4 KB	4 KB	4 KB
Sequential Read/ Write Bandwidth @128KB	6,800/2,500 MB/s	7,400/4,700 MB/s	7,400/4,700 MB/s	7,400/4,800 MB/s	6,800/2,500 MB/s	7,400/4,700 MB/s	7,400/4,700 MB/s
Random Read/ Write IOPS@4KB	900k/200k	1,600k/200k	1,600k/250k	1,600k/150k	900k/300k	1,600k/400k	1,600k/500k
Average Read/Write Latency @1QD	65/12 µs	65/12 µs	70/12 µs	70/12 µs	65/12 µs	65/12 µs	70/12 µs
Endurance[1]	1 DWPD, 5 years				3 DWPD, 5 years		
Max. Data Written[2]	3.504 PBW	7.008 PBW	14.016 PBW	28.032 PBW	8.760 PBW	17.520 PBW	35.040 PBW
Form Factor	U.2						
Weight	182 g						
NAND Flash	3D TLC						
Average Power Consumption	7.5 W (idle); 18 W (active)						
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)						
Reliability	MTBF: 2.5 million hours; AFR: ≤ 0.35%; UBER: 10^{-18}						
TRIM	Supported						
Power Failure Protection	Supported						
Media Failure Protection	Supported						
Data Retention Period (Power Failure)	3 months at 40° C (104° F)						
Certification	China: RoHS; Europe: WEEE, RoHS, REACH, and CE; North America: NRTL; UK: UKCA; Japan: VCCI; Canada: IC; Australia: RCM; IEEE Member Countries/Regions: 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. DWPD represents drive writes per day tested according to the JESD219 standards. An SSD can be used for five years if the DWPD stays below the specified value; otherwise, the SSD service life will be affected.
2. The PBW is tested with 4 KB I/O size and alignment.

HUAWEI eKit App

HUAWEI eKit Store

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