EdgeWave

Enterprise PCIe5 NVMe U.2 SSD

Product Specifications

Interface	PCIe Gen5x4 / NVMe 2.0				
Edition	Standard				
Capacity	7680GB	15360GB	30720GB	7680GB (Dual port)	15360GB (Dual port)
Model	U2S7T68P5S200	U2S15T3P5S200	U2S30T7P5S200	U2S7T68P5S2DP	U2S15T3P5S2DP
Flash Type	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
Controller	SMI SM8366	SMI SM8366	SMI SM8366	SMI SM8366	SMI SM8366
DRAM	DDR4	DDR4	DDR4	DDR4	DDR4
Sequential Read (128KB)	14,100 MB/s	14,100 MB/s	9,020 MB/s	14,100 MB/s	14,100 MB/s
Sequential Write (128KB)	9,385 MB/s	9,385 MB/s	6,845 MB/s	9,385 MB/s	9,385 MB/s
Random Read (4KB)	3,231,000 IOPS	3,070,000 IOPS	1,532,000 IOPS	3,231,000 IOPS	3,070,000 IOPS
Random Write (4KB)	332,000 IOPS	326,000 IOPS	155,000 IOPS	332,000 IOPS	326,000 IOPS
TBW	8,320 TB	16,640 TB	33,280 TB	8,320 TB	16,640 TB
Operating Temperature	0~70 °C				
Storage Temperature	-40~85 °C				
Power Supply Voltage Range	12.0 V ± 10%				
Compatibility	Windows/Windows Server/ CentOS, Fedora, FreeBSD, openSUSE, Red Hat, Ubuntu, VMware ESXi, Citrix, KVM				
DWPD	**0.6**				
Mechanical form factor	**100.5 mm x 69.85 mm x 14.8 mm**				

Interface	PCIe Gen5x4 / NVMe2.0	
Edition	Pro	
Capacity	7680 GB	15360GB
Model	U2S7T68P5P200	U2S15T3P5P200
Flash Type	3D TLC	3D TLC
Controller	SMI SM8366	SMI SM8366
DRAM	DDR4	DDR4
Sequential Read (128KB)	14,100 MB/s	12,900 MB/s
Sequential Write (128KB)	9,385 MB/s	7,825 MB/s
Random Read (4KB)	3,187,000 IOPS	2,172,000 IOPS
Random Write (4KB)	824,000 IOPS	667,000 IOPS
TBW	13,760 TB	27,520 TB
Operating Temperature	0~70 °C	
Storage Temperature	-40~85 °C	
Power Supply Voltage Range	12.0 V ± 10%	
Compatibility	Windows/Windows Server/ CentOS, Fedora, FreeBSD, openSUSE, Red Hat, Ubuntu, VMware ESXi, Citrix, KVM	
DWPD	1	
Mechanical form factor	100.5 mm x 69.85 mm x 14.8 mm	

Key Product Features

- Surprise insertion / surprise removal (SISR) and hot-plug capable
- Advanced LDPC error correction
- High I/O and throughput performance
- Consistently High IOPS, Throughput and Sustained Low Latency
- Whole Disk Encryption with AES-XTS 256bit & Security Erase
- Enterprise Power Failure Protection Technology
- Global static and dynamic wear leveling
- Auto idle and PCIe link power management
- Support up to 256 Namespaces
- UBER: <1 sector per 10^{17} bits read
- MTBF: 2.0 million hours
- Hot Pluggable
- Support NVMe-MI for Out-of-band Management
- Support MCTP Over SMBUS
- Data Set Management Command (TRIM)
- Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T)
- Security: NVM Format and Support SED (TCG Opal2.01/AES-256)

Physical dimension diagram