

Enterprise PCIe4 NVMe U.2 SSD

Product Specifications

Interface	PCIe Gen4x4 / NVMe 1.4					
Edition	Standard					
Capacity	960GB	1920GB	3840GB	7680GB	15360GB	30720GB
Model	U2S960GP4S200	U2S1T92P4S200	U2S3T84P4S200	U2S7T68P4S200	U2S15T3P4S200	U2S30T7P4S200
Controller	Marvell 88SS1321	Marvell 88SS1321	Marvell 88SS1321	Marvell 88SS1321	Marvell 88SS1321	Marvell 88SS1321
Flash Type	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC	3D TLC
DRAM	DDR4	DDR4	DDR4	DDR4	DDR4	DDR4
Sequential Read (128KB)	3,190 MB/s	3,200 MB/s	3,200 MB/s	3,190 MB/s	2,750 MB/s	3,395 MB/s
Sequential Write (128KB)	1,360 MB/s	3,010 MB/s	3,010 MB/s	3,010 MB/s	2,825 MB/s	3,355 MB/s
Random Read (4KB)	244,000 IOPS	280,000 IOPS	346,000 IOPS	352,000 IOPS	172,000 IOPS	301,000 IOPS
Random Write (4KB)	35,000 IOPS	50,000 IOPS	53,000 IOPS	53,000 IOPS	23,000 IOPS	14,000 IOPS
TBW	1,040 TB	2,080 TB	4,160 TB	8,320 TB	16,640 TB	33,280 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 7 mm					

Interface	PCIe Gen4x4 / NVMe 1.4			
Edition	Pro			
Capacity	960 GB	1920 GB	3840 GB	7680 GB
Model	U2S960GP4P200	U2S1T92P4P200	U2S3T84P4P200	U2S7T68P4P200
Controller	Marvell 88SS1321	Marvell 88SS1321	Marvell 88SS1321	Marvell 88SS1321
Flash Type	3D TLC	3D TLC	3D TLC	3D TLC
DRAM	DDR4	DDR4	DDR4	DDR4
Sequential Read (128KB)	3,300 MB/s	3,330 MB/s	3,345 MB/s	3,350 MB/s
Sequential Write (128KB)	1,755 MB/s	3,005 MB/s	3,180 MB/s	3,015 MB/s
Random Read (4KB)	338,000 IOPS	382,000 IOPS	378,000 IOPS	381,000 IOPS
Random Write (4KB)	84,000 IOPS	114,000 IOPS	114,000 IOPS	1,000 IOPS
TBW	1,720 TB	3,440 TB	6,880 TB	13,760 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 7 mm			

Key Product Features

- Advanced LDPC error correction
- Global static and dynamic wear leveling
- UBER: <1 sector per 10¹⁷ bits read
- MTBF: 2.0 million hours
- HW power loss protection (HWPLP)
- Surprise insertion / surprise removal (SISR) and hot-plug capable
- Auto idle and PCIe link power management
- High I/O and throughput performance
- Next generation LDPC technology secures NAND endurance
- Advanced Flash management and global wear leveling algorithm extending drive life
- High stability and reliability
- Temperature monitoring and intelligent management

Physical Dimension Diagram

