U.2 PCIe SSD

ADATA SR2000SP U.2 2.5" solid state drives implement 3D Enterprise NAND Flash for superb transfer rates of up to 3500/3500MB per second. They feature low power consumption, high reliability, and compatibility across diverse storage applications that require security, convenience, performance, and capacity. They are purpose-made for enterprise servers, hyperscale computing, data centers, big data analytics, and embedded applications. They undergo the strictest quality controls to provide excellent reliability and rugged performance. This guarantees that the drives meet the exacting requirements of industrial and enterprise applications. Furthermore, value-added ADATA SSD software provides scalable overprovisioning (OP) adjustment, making them ideal for different types of workload applications.

Key Features

● 3D eTLC NAND Flash - higher capacity, durability

● Wide range of capacities from 2TB to 11TB

● Consistently high IOPS and throughput

● S.M.A.R.T. data integrity protection

● Power failure protection

● Data path protection

● Hot plug support

● AES 256-bit data encryption

● Supports Windows TRIM command

● Supports scalable overprovisioning

Target Applications

Enterprise servers, cloud and hyperscale computing, big data analytics, deep learning applications, high-performance software-defined storage

Technology Support

● Data Path Protection

● AES 256-bit Data Encryption

● Scalable Overprovisioning

● Shock & Vibration Resistant

● S.M.A.R.T.

● TRIM

● Power Failure Protection

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Specifications

Model	SR2000SP
Form Factor	U.2 2.5”
Interface	PCIe 3.0 x 4
Flash Type	3D eTLC
Operating Voltage	12V (±8%)
Capacity	2TB, 3.6TB, 4TB, 8TB, 11TB
Sequential Read (Max)	Up to 3.5GB/s
Sequential Write (Max)	Up to 3.5GB/s
Random Read (4KB) IOPS	Up to 830K
Random Write (4KB) IOPS	Up to 140K
Operating Temperature	0°C to 35°C
Operating Humidity	25%-95% RH non-condensing
Power Consumption (Max)	Idle: 7W; Operating: 21W
MTBF (Est)	2,000,000 hours
Vibration Resistance	3.1G (5-800Hz)
Shock Resistance	1500G/0.5ms, Half Sine Wave
Dimensions (L x W x H)	100.45 x 69.85 x 14.80mm
Technologies	Power Failure Protection, Hot plug, AES256 Data Encryption, S.M.A.R.T, TRIM
DWPD (5-year warranty)	1, 2, 3

Ordering Information

Capacity	0°C to 35°C
2TB	ASR2000SP-002TQ
3.6TB	ASR2000SP-306TQ
4TB	ASR2000SP-004TQ
8TB	ASR2000SP-008TQ
11TB	ASR2000SP-011TQ

Dimensions

ADATA