

PCIe® Gen4 NVMe E1.S SSD

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES

- PCIe Gen4 x4 interface
- E1.S 9.5 mm symmetric enclosure
- Industrial temperature operable
- Thermal Management Solution
- MCU-based Power Loss Protection Design with Level 4 (data-in-flight) protection
- Hot-pluggable/Hot-swappable

Built with 176-layer NAND and boasting an impressive 5,000+ program/erase (P/E) cycle endurance, ATP's E1.S SSDs are designed for optimal performance leveraging cutting-edge PCIe® interface and NVMe protocol technologies.

Engineered for 1U Edge servers, ATP's E1.5 SSDs are designed for vertical placement in small-footprint systems, allowing up to 6 to 12 drives in a 1U chassis. They support hot swapping/hot plugging for easy serviceability and replacement of drives while the system is on.

High cross-temperature reliability translates to low bit errors and better transmission accuracy for higher data integrity.

Housed in a 9.5 mm symmetric enclosure, ATP's E1.5 SSDs are a result of thermal management solutions. The enclosure features customized hardware and sustained performance firmware tuning, making it an ideal solution to meet the demanding requirements of hyperscale architecture.



Specifications

	PCIe® Gen4 NVMe E1.S SSD								
	Superior								
Product Line	N651Si								
Interface	PCIe G4 x4								
Flash Type	3D TLC								
Form Factor	E1.5								
Operating Temperature	-40°C to 85°C								
Power Loss Protection Options	Hardware + Firmware Based								
Optional SED Features	AES 256-bit Encryption, TCG Opal 2.0								
Capacity	960 GB~7,680 GB								
	Performance								
Sequential Read (MB/s) up to	6,100								
Sequential Write (MB/s) up to	6,000								
Random Reads IOPS up to	870,000								
Random Writes IOPS up to	1,200,000								
	Endurance and Reliability								
Endurance (TBW) ¹ up to	14,000 TB								
Reliability MTBF @ 25°C	>2,000,000 hours								
	Others								
Dimensions (mm)	118.75 x 33.75 x 9.5								
Certifications	RoHS/VCCI/CE/FCC/UKCA								
Warranty	5 years								

^{1.} The endurance calculation is based on JESD219A Enterprise workload.

Technologies & Add-On Services	(%)	\$					٥				***************************************	\(\s\)_z		(Tillus
Aud-Oil Selvices						Dynamic Data Refresh		Auto-Read Calibration						Joint Validation
Superior	0	0	0	0	0	0	0	0	A	A	0	A	A	A

A: Customization option available on a project basis.

Product spec and its related information are subject to change without advance notice. Please refer to $\underline{www.atpinc.com}\,$ for latest information

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