

PCIe® Gen4 NVMe E1.S SSD

The Global Leader in Specialized Storage and Memory Solutions



KEY FEATURES

- Endurance: 1 DWPD (5 years Enterprise workload)
- Sustained Write Performance: Up to 3,000 MB/s
- Power Loss Protection: MCU-based* with data-at-rest and in-flight protection
- PLP Diag*(Self-Diagnosing Capacitor Check)
- AcuCurrent (Signal Optimization Technology)
- Security: Self-Encrypting Drive (SED) with AES 256-bit Encryption, TCG Opal 2.0*
- End-to-End Data Path Protection
- 9.5 mm symmetric enclosure

Built with 176-layer NAND and boasting an impressive 11,000+ 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.S 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.S 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.

^{*} May vary by product and project support

Specifications

Product Line	Superior						
	N651Si						
Interface	PCIe G4 x4						
Flash Type	3D TLC						
Form Factor	E1.S						
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 to 7.68 TB						
	Performance						
Sequential Read (MB/s) up to	6,400						
Sequential Write (MB/s) up to	6,100						
Random Reads IOPS up to	1,000,000						
Random Writes IOPS up to	1,200,000						
	Endurance and Reliability						
Endurance (TBW) ¹ up to	79,000 TB						
Reliability MTBF @ 25°C	>3,000,000 hours						
	Others						
Dimensions (mm)	118.75 x 33.75 x 9.5						
Certifications	CE, FCC, BSMI, UKCA, RoHS, REACH						
Warranty	5 years						

^{1.} Under highest Sequential write value. May vary by density, configuration and applications.

	logies	S.M.A.R.T/ Life Monitor	PLP Diag	AcuCurrent	Industrial Temperature	Firmware-Based Power Loss Protection	Hardware-Based Power Loss Protection	Advanced Wear Leveling	AutoRefresh		Auto-Read Calibration	ETEDP		Software Secure Erase		Hardware Write Protect
		0	0	0	0	0	0	0	0	0	0	0	0	0	•	A

 \blacktriangle : Customization option available on a project basis.



Product spec and its related information are subject to change without advance notice.

Please refer to www.atpinc.com for latest information

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ATP EUROPE