

ATP SATA III 2.5" SSD series

Reliable 2.5" SSDs with advanced protection for industrial and safety-critical applications

Features

- MCU-based Power Loss Protection Design w/ Level 4 protection
- Self-Encrypting Drive with AES 256-bit encryption, TCG Opal 2.0
- NSA-compliant Secure Erase
- MIL-STD-810G standards



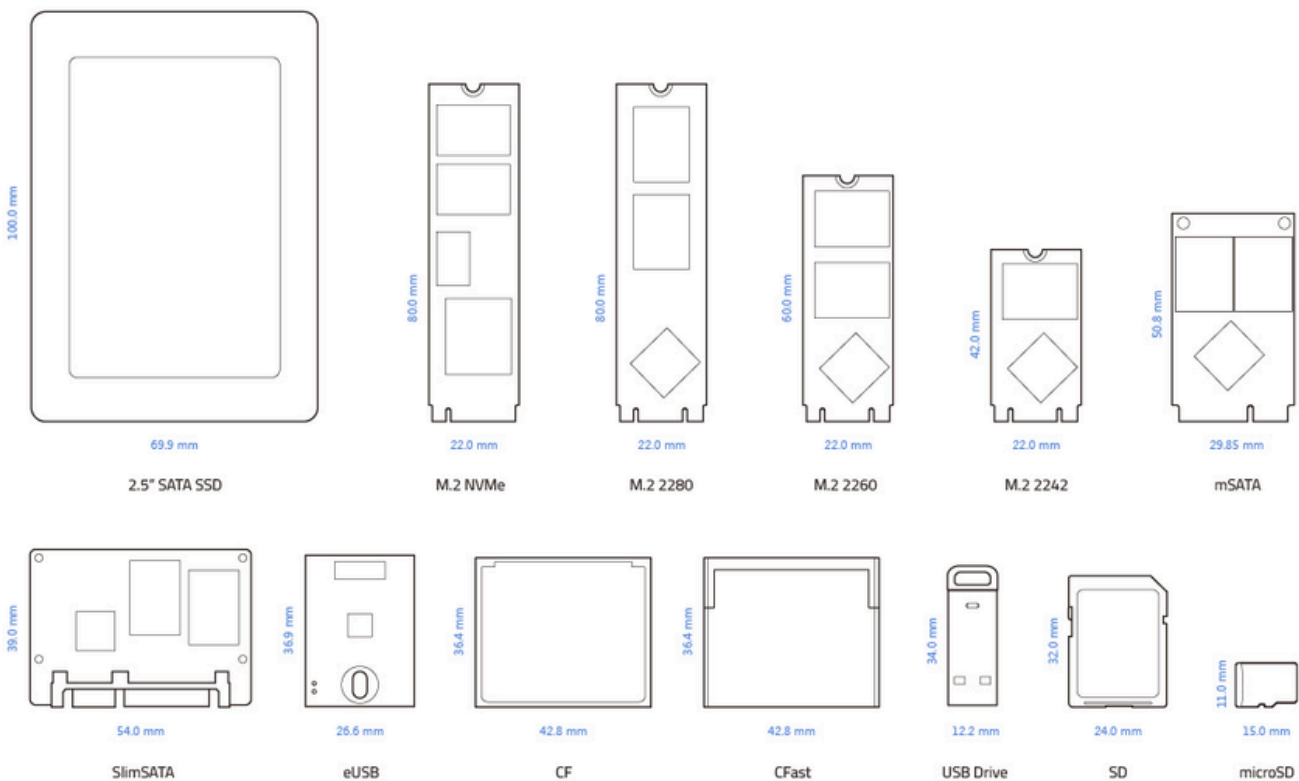
ATP SATA III 2.5" SSD series – Robust SSD solutions for industrial applications

ATP's shock/vibration-resistant industrial 2.5" SSDs are encased in durable enclosures for outstanding performance in challenging environments. The convenient 2.5" form factor and SATA III interface allow easy integration into SATA-based systems, while unique ATP technologies ensure extended endurance for long years of dependable use.

Power Loss Protection Design technology options combines hardware and/or firmware solutions to ensure that data is preserved and protected during a sudden power failure. The MCU design also protects the storage device from damage by allowing the power loss protection (PLP) to intelligently manage power challenges such as inrush current, input overvoltage, incorrect cache flushing and more.

ATP's 2.5" SSDs comply with US National Security Agency (NSA) and MIL-STD-810G standards. They support the S.M.A.R.T. ATA feature set and Advanced Wear Leveling algorithm for enhanced endurance.

Product dimensions comparison



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FEATURES								
Product Line	Premium			Superior				Value
Naming	A800Pi	A750Pi	A700Pi	A650Si	A650Sc	A600Si	A600Sc	A600Vc
Interface	SATA III 6 Gb/s							
Flash Type	SLC	3D TLC (pSLC mode)		3D TLC				
Form Factor	2.5"							
Operating Temperature	-40°C to 85°C			0°C to 70°C	-40°C to 85°C		0°C to 70°C	
Power Loss Protection Options	Hardware and Firmware Based							Firmware Based
Optional SED Features	-	AES 256-bit Encryption, TCG Opal 2.0						-
Capacity	8GB to 256GB	80GB to 640GB		240GB to 1,920GB		120GB to 1,920GB		32GB to 1TB
Sequential Read (MB/s) up to	520	560						
Sequential Write (MB/s) up to	420	520		525	520		525	
Random Reads IOPS up to	76,000	90,000		90,000	100,000		72,000	
Random Writes IOPS up to	74,000	88,000		90,000	91,000		85,000	
Endurance TBW [I] up to	21,333TB	38,400TB	25,600TB	9,310TB	5,585TB		2,792TB	
Reliability MTBF @ 25°C	>2,000,000 hours							
Reliability Number of Insertions	10,000 minimum							
Dimensions (mm)	100 x 69.85 x 9.2		100 x 69.85 x 7/9.2				100 x 69.85 x 7	
Certifications	CE, FCC, UKCA, RoHS, REACH		CE, FCC, BSMI, UKCA, RoHS, REACH					
Warranty	5 years			2 years				

Technologies & Add-On Services	S.M.A.R.T.	Firmware-based Power Loss Protection	Hardware-based Power Loss Protection	AutoRefresh	Advanced Wear Leveling	Dynamic Data Refresh	Auto-Read Calibration	Secure Erase	TCG Opal 2.0	Industrial Temperature	Anti-Sulfur Resistors	Conformal Coating	Joint Validation
Premium	○	○	○	○	○	○	○	▲	○	○	▲	▲	▲
Superior	○	○	○	○	○	○	○	▲	○	▲	▲	▲	▲
Value	○	○	—	○	○	○	○	—	—	—	—	—	—

[I] Under highest Sequential write value. May vary by density, configuration and applications.

▲ Customization option available on a project basis.