

# SATA III mSATA SSD

## KEY FEATURES

- Power Loss Protection: MCU-based\* with data-at-rest and in-flight protection
- PLP Diag\* (Self-Diagnosing Capacitor Check)
- EcoFlush\* (Flush Cache Optimization Technology)
- Data Retention: Up to 10 years at 55 °C (pSLC)\*
- Security: Self-Encrypting Drive (SED) with AES 256-bit encryption, TCG Opal 2.0\*
- LDPC & RAID Data Recovery
- End-to-End Data Path Protection

\* May vary by product and project support

Product Line	Premium		Superior	Value
	A800Pi	A750Pi	A650Si / A650Sc	A600Vi / A600Vc
Interface	SATA III 6 Gb/s			
Flash Type	SLC	3D TLC (pSLC mode)	3D TLC	
Form Factor	MO-300A			
Operating Temperature	-40°C to 85°C		-40°C to 85°C / 0°C to 70°C	
Power Loss Protection Options	Hardware + Firmware Based			Firmware Based
Optional SED Features	AES 128/256-bit Encryption	AES 256-bit Encryption, TCG Opal 2.0		-
Capacity	8 GB to 128 GB	80 GB to 320 GB	240 GB to 960 GB	128 GB to 1 TB
Performance				
Sequential Read (MB/s) up to	530	560		
Sequential Write (MB/s) up to	430	510	525	
Random Reads IOPS up to	77,000	92,000	104,000	70,500
Random Writes IOPS up to	75,000	85,000	90,000	92,500
Endurance and Reliability				
Endurance (TBW) <sup>1</sup> up to	10,666 TB	29,620 TB	10,240 TB	1,530 TB
Reliability MTBF @ 25°C	>2,000,000 hours	>3,000,000 hours		>2,000,000 hours
Others				
Dimensions (mm)	50.8 x 29.85 x 3.5			
Certifications	CE, FCC, UKCA, RoHS, REACH	CE, FCC, BSMI, UKCA, RoHS, REACH		
Warranty	5 years		2 years	

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



Technologies	S.M.A.R.T./ Life Monitor	PLP Diag	AcuCurrent	EcoFlush	Industrial Temperature	Firmware-Based Power Loss Protection	Hardware-Based Power Loss Protection	Advanced Wear Leveling	AutoRefresh	Dynamic Data Refresh	Auto-Read Calibration	ETEDP	SED	Software Secure Erase	Hardware Secure Erase	Hardware Write Protect
Premium A800Pi	○				○	○	○	○	○	○			○	○		
Premium A750Pi	○	○	▲	○	○	○	○	○	○	○	○	○	○	○	▲	▲
Superior A650Si / A650Sc	○	○	▲	○	○	○	○	○	○	○	○	○	○	○	▲	▲
Value A600Vi / A600Vc	○				○	○		○	○	○	○					

▲: Customization option available on a project basis.