

E-Disk[®] Altima[™] II

M.2 SATA SSD

I-Series

Power Efficient and Durable
Small Form Factor Storage



E-Disk Altima II M.2 SSD – I-Series comes in a small form factor, with very low power consumption, and high capacity. AES-256 Encryption and TCG Opal security features ensure E-Disk Altima II M.2 SSD is protected from unauthorized access.

Shock, vibration, temperature, humidity resistance, and fast boot/shutdown capabilities address the needs of industrial requirements and applications. The maximum bandwidth of the E-Disk Altima II M.2 SATA SSD – I-Series is up to 560 MB/s with a capacity range of up to 2TB.

Advanced features provide longevity to reliably retain data for extended periods of time. State-of-the-art global wear leveling, sophisticated hardware LDPC ECC engine, and over-provisioning technologies extend the usable life of E-Disk Altima II M.2 SATA SSD – I-Series.

Applications

E-Disk Altima II SSDs are ideal for industrial applications such as:

- Air, Land, Sea, Space, and Data Applications
- Rugged Mobile Surveillance Equipment
- Scientific Field Research
- Oil and Gas Exploration Systems
- Pipeline and Other Inspection Equipment
- Transportation Monitoring and Inspection
- Rugged Medical Equipment
- Energy and Mining Equipment

Features

- Low Power Consumption
- Small Form Factor
- AES-256 Encryption (Optional)
- TCG Opal Support (Optional)
- Power On Data Erase (Supported via ATA Command)
- Crypto Erase (Optional)
- HW Write Protect (Optional)
- HW Instant Erase (Optional)
- TRIM and SMART Monitoring & Reporting

Product Specification

Physical	
Form Factor	M.2 2280
Interface	SATA 6 Gb/s (SATA Rev. 3.2)
Dimensions (L x H x W)	Commercial: 80mm x 22mm x 3.6mm Industrial: 80mm x 22mm x 5mm

Capacity	
NAND Support	SLC, pSLC, MLC, pMLC, BiCS3 TLC
Capacity	Up to 2TB depending on NAND type required

Performance	
Sequential Read	Up to 560 Mb/s
Sequential Write	Up to 530 Mb/s

Security	
Power on Data Erase	Supported via ATA Command
AES-256 Encryption	Optional
TCG Opal Support	Optional
Crypto Erase	Optional
HW Write Protect	Optional
HW Instant Erase	Optional

Advance Flash Management	
Wear Leveling	Included
Over-provisioning	Included
Bad Block Management	Included
SMART	Included
TRIM	Included

Environmental (Operation)	
Temperature	-40 to 85 °C
Humidity	5 to 95% RH
Shock	1,500 G
Vibration	20 Grms
Altitude	0 to 80,000 ft.

Power	
Voltage	3.3V (+/-5%)
Power Savings Mode	DEVSLP (optional) DIPM/HIPM Mode
Power Consumption (Typical R/W @1TB BiCS3 TLC)	Read: 1.5W Write: 1.6W Idle: 0.3W

Reliability	
MTBF	> 2,000,000 (depending on NAND type)

Warranty	
Standard	1 Year
Extended (Optional)	3 Years

For more information

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