

E-Disk[®] Altima[™] II

M.2 NVMe SSD

M-Series

Power Efficient and Durable
Small Form Factor Storage



E-Disk Altima II M.2 SSD – M-Series comes in small form factor, 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 military requirement and applications. E-Disk Altima II M.2 NVMe SSD – M-Series has the latest high performance and optimized protocol which compliments PCIe technology that offers maximum bandwidth up to 3.4 GB/s with a capacity range of up to 2TB.

Additional features provide longevity to reliably retain data for extended periods of time. Static and dynamic wear leveling, LDPC ECC, and over-provisioning technologies extend the usable life of E-Disk Altima II M.2 NVMe SSD – M-Series.

Applications

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

- Air, Land, Sea, Space, and Data Applications
- Rugged Mobile Surveillance Equipment
- Scientific Field Research
- Mobile Targeting 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
- TCG Opal Support
- TRIM and SMART Monitoring & Reporting
- Power On Data Erase
- Crypto Erase

Product Specification

Physical	
Form Factor	M.2 2280
Interface	PCIe Gen3 x4, NVMe 1.3
Dimensions (L x W x H)	80mm x 22mm x 5mm

Capacity	
NAND Support	SLC, pSLC, MLC, pMLC, 3D TLC
Capacity	Up to 2TB depending on NAND type required

Performance	
Sequential Read	Up to 3.4 GB/s
Sequential Write	Up to 2.7 GB/s

Security	
Power On Data Erase	Supported via NVMe Command
TCG Opal Compliant	Included
AES-256 Encryption	Included
Crypto Erase	Included

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

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

Power	
Voltage	3.3V (+/-5%)
Power Savings Mode	APST, ASPM, L1.2AASMP
Power Consumption (Typical RW @1TB 3D TLC)	Read: 7.2W Write: 6.1W

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

Warranty	
Standard	1 Year
Extended (Optional)	3 Years

For more information

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