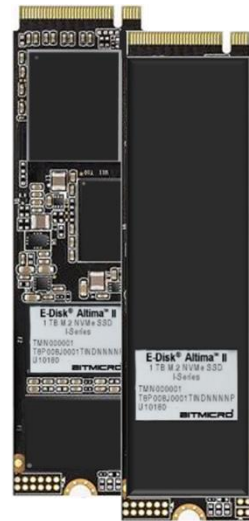# E-Disk® Altima™ II
M.2 NVMe SSD
I-Series

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. TRIM, SMART Monitoring & Reporting with 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. E-Disk Altima II M.2 NVMe SSD – I-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.

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 NVMe 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 NVMe command)
- Crypto Erase (Optional)
- TRIM and SMART Monitoring & Reporting

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
AES-256 Encryption	Optional
TCG Opal Support	Optional
Crypto 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 ºC
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 R/W @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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