

E-Disk[®] Altima[™] II U.2 (2.5") NVMe SSD I-Series

Highly Durable and Persistent
Storage Device for Challenging
Industrial Applications



E-Disk Altima II I-Series SSDs utilize many of the same technologies found in proven military grade products from BiTMICRO[®]. E-Disk Altima II I-Series SSDs can store important information when temperatures, vibration, and humidity exceed the tolerances of ordinary SSDs.

AES encryption and TCG Opal ensure that access to data is authorized. PowerGuard[®] technology provides data consistency when power is unexpectedly disrupted. Additional technologies provide longevity to reliably retain data for extended periods of time. Static wear-leveling, over-provisioning and garbage collection technologies extend the usable life of E-Disk Altima II I-Series SSDs.

Applications

E-Disk Altima II I-Series 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

- Industrial Temperature Control Technology
- PowerGuard[®] Power Loss Data Protection
- Power On Data Erase
- TRIM and SMART Monitoring & Reporting
- AES 256 Support
- TCG Opal Compliant
- High Performance NVMe

Product Specification

Physical	
Form Factor	U.2 (2.5")
Mounting	HDD/SSD standard, all-orientations
Interface	PCIe 3.1 x 4 (U.2), NVMe 1.3
Dimensions (L x H x W)	100.45mm x 69.85mm x 9.5mm

Capacity	
Storage Capacity	BiCS3 3D TLC : Up to 4TB pSLC : Up to 1.2TB
NAND Types	BiCS3 3D TLC NAND, SLC Mode Over BiCS3 3D TLC NAND (pSLC)

Performance	
Sequential Read	Up to 3.2 GB/s
Sequential Write	Up to 3 GB/s

Security	
Power on Data Erase	Supported
AES 256 Encryption	Optional
TCG Opal 2.0 Compliance	Optional

Reliability	
MTBF	> 2, 000, 000
Endurance	Up to 3 PBW (@1TB BiCS3 3D TLC)

Environmental Operation	
Temperature	-40 to 85 °C
Shock	2,000 G
Vibration	20 Grms
Altitude	0 to 80,000 ft.
Humidity	5 to 95% (non-condensing)

Power	
Voltage	12V (+/-8%)
Power Loss Data Protection	Supported (Optional)
Power Saving Mode	APST, ASPM, L1.2
Power Consumption (Typical R/W @1TB BiCS3 3D TLC)	Read: 7.2W Write: 6.1W

Warranty	
Standard	1 Year
Extended (Optional)	3 Years

For more information

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