

# E-Disk<sup>®</sup> Altima<sup>™</sup> 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<sup>®</sup>. 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<sup>®</sup> 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<sup>®</sup> 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 | 3D TLC : Up to 4TB<br>pSLC : Up to 1.2TB            |
| NAND Types       | 3D TLC NAND,<br>SLC Mode Over 3D TLC<br>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 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 3D TLC) | Read: 7.2W<br>Write: 6.1W |

| Warranty            |         |
|---------------------|---------|
| Standard            | 1 Year  |
| Extended (Optional) | 3 Years |

## For more information

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