

E-Disk® Altima™ II

U.2 (2.5") NVMe SSD

I-Series Plus

Highly Durable and Persistent Storage Device for Challenging Industrial Applications



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

BiTMICRO SecurErase® technology along with 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. pSLC and MLC flash, static wear leveling, over-provisioning and garbage collection technologies extend the usable life of E-Disk Altima II I-Series Plus SSDs.

Applications

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

- Air, Land, Sea, Space, and Data Applications
- Airborne Surveillance and Content Delivery
- Scientific Field Research
- Communications
- Pipeline and Other Inspection Equipment
- Transportation Monitoring and Inspection
- Unmanned Vehicles
- Manufacturing and Medical Equipment
- Energy, Mining, and Resource Management
- Agriculture, Forestry, and Aquaculture

Features

- Industrial Temperature Control Technology
- PowerGuard® Power Loss Data Protection
- SecureErase® Power Loss Data Erase
- SecureErase® Power Loss Mobile Data Erase
- Power On Data Erase via NVMe Format Command
- TRIM and SMART Monitoring & Reporting
- FIPS 140-2 Level 3 Compliant
- AES 256 Support
- TCG Opal Compliant
- High Performance NVMe

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Product Specifications

| Physical | |
|------------------------|------------------------------------|
| Form Factor | U.2 (2.5") |
| Mounting | HDD/SSD standard, all orientations |
| Interface | PCIe 3.0 x4 (SFF 8639), NVMe 1.2 |
| Dimensions (L x W x H) | 100.45 mm x 69.85 mm x 9.5 mm |

| Capacity | |
|---------------------------------------|---------------------------|
| pSLC | Up to 1 TB |
| MLC | Up to 2 TB (4TB optional) |
| <small>Note: Usable capacity.</small> | |

| Sustained Performance | |
|-----------------------|-----------------|
| Sequential Read | Up to 2.7 GB/s |
| Sequential Write | Up to 1.35 GB/s |

| Security & Encryption | |
|---|-----------------------------------|
| Power On Data Erase | Supported via NVMe Format Command |
| SecurErase Power Loss Data Erase | Optional |
| SecurErase Power Mobile Data Erase | Optional |
| SecurErase Power On Military Sanitization | Optional |
| AES 256 Encryption | Supported |
| FIPS 140-2 Level 3 Compliance | Optional |
| TCG Opal 2.0 Compliance | Supported |

| Environmental (Operational) | |
|-----------------------------|----------------------------|
| Temperature | Industrial: -40 to 85 °C |
| Altitude | 0 to 80,000 ft |
| Humidity | 10 to 90% (non-condensing) |
| Shock | 1,500 G |
| Vibration | 16.4 Grms |

| Reliability | |
|-------------|--|
| MTBF | > 2,000,000 |
| Endurance | > 16.76 PBW (@1TB pSLC) > 2.79 PBW (@2TB MLC) |

| Power | |
|---------------------------------------|---|
| Voltage | 12V DC (±8%) |
| PowerGuard Power Loss Data Protection | Supported (Optional) |
| Power Savings Modes | APST, ASPM, L1.2 |
| Power Consumption | Read: 5.6 W @ 2TB Write: 7.3 W @ 2TB |

| Warranty | |
|---------------------|---------|
| Standard | 1 year |
| Extended (Optional) | 3 years |

For more Information

Email: sales@bitmicro.com

Call: +1 (888) 72-FLASH