

E-Disk® Altima™ II mSATA SSD I-Series Plus

Durable and Persistent Small
Form Factor Storage Device



E-Disk Altima II I-Series Plus mSATA SSDs include a small form factor, low power consumption, shock/vibration/temperature/humidity resistance, and fast boot/shutdown capabilities. The maximum bandwidth of the E-Disk Altima II I-Series Plus mSATA SSD is 550 MB/s with a capacity range of up to half a terabyte.

Power Loss Data Protection feature provides data consistency when power is unexpectedly disrupted. Additional features provide longevity to reliably retain data for extended periods of time. MLC flash, static and dynamic wear leveling, and over-provisioning technologies extend the usable life of E-Disk Altima II I-Series Plus mSATA SSDs.

Applications

E-Disk Altima II I-Series Plus SSDs are ideal for industrial 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
- Power Loss Data Protection
- Power On Data Erase
- TRIM and SMART Monitoring & Reporting

Product Specifications

Physical

| | |
|------------------------|-----------------------------|
| Form Factor | mSATA |
| Interface | SATA 6 Gb/s (SATA Rev. 3.2) |
| Dimensions (L x W x H) | 50.8 mm x 29.85 mm x 4 mm |

Capacity

| | |
|-----|-----------------|
| MLC | 16 GB to 512 GB |
|-----|-----------------|

Note: Usable capacity.

Sustained Performance

| | |
|------------------|----------------|
| Sequential Read | Up to 550 MB/s |
| Sequential Write | Up to 490 MB/s |

Security

| | |
|---------------------|---------------------------|
| Power On Data Erase | Supported via ATA Command |
| HW Write Protect | Supported via GPIO |

Reliability

| | |
|-----------|-----------------|
| MTBF | > 2,000,000 |
| Endurance | 544 TBW @512 GB |

Environmental (Operational)

| | |
|-------------|--------------------------|
| Temperature | Industrial: -40 to 85 °C |
| Shock | 1,500 G |
| Vibration | 20 Grms |
| Altitude | 0 to 80,000 ft |

Power

| | |
|---------------------------------|------------------------------------|
| Voltage | 3.3V (+/-5%) |
| Power Loss Data Protection | Supported (Optional) |
| Power Savings Modes | DEVSLP (Optional) DIP/HIPM Mode |
| Power Consumption (Typical R/W) | 1.45 / 2.69 W @512 GB |

Warranty

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

For more Information

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