

E-Disk[®] Altima[™] II

M.2 SATA 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. AES-256 Encryption and 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. The maximum bandwidth of the E-Disk Altima II M.2 SATA SSD – I-Series is up to 560 MB/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 SATA 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 ATA Command)
- Crypto Erase (Optional)
- HW Write Protect (Optional)
- HW Instant Erase (Optional)
- TRIM and SMART Monitoring & Reporting

Product Specification

| Physical | |
|------------------------|--|
| Form Factor | M.2 2280 |
| Interface | SATA 6 Gb/s (SATA Rev. 3.2) |
| Dimensions (L x H x W) | Commercial: 80mm x 22mm x 3.6mm Industrial: 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 560 Mb/s |
| Sequential Write | Up to 530 Mb/s |

| Security | |
|---------------------|---------------------------|
| Power on Data Erase | Supported via ATA Command |
| AES-256 Encryption | Optional |
| TCG Opal Support | Optional |
| Crypto Erase | Optional |
| HW Write Protect | Optional |
| HW Instant 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 °C |
| Humidity | 5 to 95% RH |
| Shock | 1,500 G |
| Vibration | 20 Grms |
| Altitude | 0 to 80,000 ft. |

| Power | |
|---|---|
| Voltage | 3.3V (+/-5%) |
| Power Savings Mode | DEVSLP (optional) DIPM/HIPM Mode |
| Power Consumption (Typical R/W @1TB 3D TLC) | Read: 1.5W Write: 1.6W Idle: 0.3W |

| Reliability | |
|-------------|---|
| MTBF | > 2,000,000 (depending on NAND type) |

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

For more information

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