

Ace Drive™ II

U.2 (2.5") NVMe SSD

I-Series (Industrial)

Resilient, Consistent and
Built for Demanding
Industrial Applications



Ace Drive II Industrial SSDs can safely store important information when temperatures exceed the tolerances of commercial SSDs. Static wear leveling, over-provisioning and garbage collection technologies provide longevity, enabling the Ace Drive II SSD to reliably retain data for extended periods of time. Included SMART health monitoring detects and reports on indicators to predict drive availability.

Included PowerGuard® technology provides data consistency when power is unexpectedly disrupted. Power On Data Erase along with AES encryption provide an extra layer of data security.

Applications

Ace Drive I-Series SSDs are ideal for industrial applications such as:

- Oil, gas and solar infrastructure data gathering
- Airborne vehicle data delivery and retrieval
- Communications infrastructure management
- Agriculture, forestry and aquaculture management
- Transportation monitoring and inspection
- Unmanned vehicles
- Industrial automation

Features

- Industrial temperature control technology
- AES-256 Encryption
- PowerGuard® Power Loss Data Protection
- Power On Data Erase
- High Performance NVMe
- TRIM and SMART Monitoring and Reporting

Product Specifications

Physical

Form Factor	U.2 (2.5")
Mounting	HDD/SSD standard, all orientations
Connector	PCIe 3.0 x4 (SFF 8639), NVMe 1.2
Dimensions (L x W x H)	100 mm x 69.85 mm x 9.5 mm

Capacity

MLC	Up to 2 TB
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Note: 1 TB = 1,000,000,000,000 Bytes.

Performance

Sequential	Read: Up to 2.7 GB/s Write: Up to 1.35 GB/s
Random	Read: Up to 280K IOPS @4K Write: Up to 250K IOPS @4K

Power

Voltage	12V DC (±8%)
PowerGuard Power Loss Data Protection	Supported (Optional)
Power Saving Modes	APST, ASPM, L1.2
Active (Read/Write)	MLC: 5.6 W/7.3 W @ 2 TB

Environmental

Operational Temperature	Industrial: -40 to 85 °C
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Reliability

MTBF	>2,000,000
Write Endurance	MLC: >2.79 PBW @ 2 TB
TRIM	Supported
SMART	Supported

Security

Power On Data Erase	Supported via NVMe Format Command
AES 256 Encryption	Supported

Warranty

Standard	6 months
Extended (Optional)	2 years

For more Information

Email: sales@bitmicro.com

Call: +1 (888) 72-FLASH