

# Ace Drive™ E-Series 2.5” SATA SSD

Think fast.

BITMICRO's 2.5" SATA Ace Drive E-Series provides the speed and capacity that enterprise servers and storage systems need. With their SATA 6Gb interface, Ace Drives are a huge boost to the performance of enterprise applications.

Ace Drives come in a small 2.5" form factor and are easy drop-in replacements for traditional SATA hard drives. When integrated into a server or storage system, a single drive produces 32k IOPS and 520 MB/s, vastly outperforming their hard drive counterparts.

Ace Drives support SMART, Native Command Queuing up to 32 commands and dynamic/static wear leveling, ensuring reliability and extending drive life and endurance. Their power utilization is extremely efficient, typically consuming only 3W when active.

Ace Drives are built with hardware ECC, which ensures that data is protected without sacrificing performance. Drive life is prolonged with Advanced SSD Life Monitor and wear leveling.

## Applications

Ace Drive E-Series SSDs are ideal for enterprise applications such as: streaming data, web applications, front-end web and email.

## Features

- Dynamic/static wear leveling algorithm
- Advanced SSD Life Monitor
- SMART support
- NCQ support for up to 32 commands
- TRIM command support

## Performance

<b>Random</b>	Read: 32,000 IOPS @ 4KB Write: 22,000 IOPS @ 4KB
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<b>Sequential</b>	Read: 520 MB/s Write: 500 MB/s
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## Environmental

<b>Operational Temperature</b>	0 to 70°C
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<b>Airflow</b>	None required
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## Capacity

<b>MLC</b>	240GB, 480GB
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## For Information...

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## Additional Specifications

### Physical

<b>Form Factor</b>	2.5"
<b>Mounting</b>	HDD standard, all orientations
<b>Connector</b>	SATA 6.0 Gbps
<b>Size (L x W x H)</b>	3.95" x 2.75" x 0.37"
<b>Weight</b>	4.23 oz.

### Power

<b>Voltage</b>	5V DC (±5%)
<b>Active</b>	3 W

### Reliability

<b>MTBF</b>	2 million hours
<b>Error Correction</b>	Corrects 55 bits per 512B
<b>Write Endurance</b>	1.44 PB @ 480GB

### Compliance

<b>Interface</b>	SATA Rev. 3.0
<b>EMC</b>	FCC Part 15 Class B EN 55022: 2010 EN 55024: 2010
<b>Safety</b>	UL 60950-1 CSA C22.2 60950-1
<b>RoHS</b>	EU RoHS 2002/95/EC

### Warranty

<b>Standard</b>	1 year
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