

MAXio® E-Series PCIe Full Height SSD



BitMICRO® MAXio® E-Series PCIe solid state drives offer the benefits of flash memory in the enterprise storage environment, delivering high performance, reliability and capacity while minimizing operational expenses. Utilizing cost-effective MLC flash, this latest SSD product line is an ideal scale-up system upgrade for mixed workload applications, resulting in the right balance of performance, price and capacity.

MAXio PCIe products are powered by BitMICRO technology, such as the Talino™ architecture which utilizes BitMICRO-developed ASICs. These ASICs are unique in the industry because they not only offload the Flash Translation Layer (FTL) from the host server to the MAXio SSD but also support high storage capacity in a single PCIe edge card form factor. Offloading the FTL, reduces the compute and DRAM burden on the host server. Furthermore, a high storage capacity PCIe SSD storage solution enables the use of larger data sets, which increases application performance.

BitMICRO's user-friendly DriveLight™ management software provides value-added monitoring features for multiple MAXio SSDs and non-BitMICRO SCSI drives in a single user interface, simplifying storage administration.

Applications

MAXio E-Series SSDs are ideal for enterprise applications such as video-on-demand, video streaming, file servers, web applications, cloud services, and big data analytics.

Features

- BitMICRO-designed Talino™ ASIC Architecture
- SecurErase® Technology
- High Capacity (Up to 3TB raw flash) with Low Host Resource Utilization
- Enterprise-Class Performance
- Advanced Flash Management
 - Dynamic Wear Leveling
 - Background Garbage Collection
 - Zero Pattern Elimination
- User-Friendly SSD Management Tool
- Industry-Competitive Thermal Characteristics and Low Energy Usage

Capacity

MLC	1536GB, 3072GB raw capacity
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Note: Actual number varies based on overprovisioning percentage and drive formatting. Contact your sales representative for more information.

Performance

4KB Read IOPs	240,000
4KB Write IOPs	120,000
4KB Read Latency	Less than 50 µSec
4KB Write Latency	Less than 30 µSec

Physical

Form Factor	PCIe full height, half length
Flash Type	MLC
Mounting	PCIe standard slots
Connector	PCIe rev2.0 x8
Size (L x W x H)	6.60" x 0.74" x 4.38"

Power

Voltage	3.3V/12V (+/- 5%)
Active	Less than 30W

Reliability

Error Correction	Corrects 41 bits per 1KB
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Platform Support

OS	Windows® 2012 R2 Server (64-bit) Windows® 2008 Server (32/64-bit) Windows® 2008 with Hyper-V Windows® 7 (64-bit) Red Hat® Enterprise 6 Ubuntu® 10 CentOS 6 Oracle® Enterprise Linux 6 OpenSUSE® Desktop 12 VMWare® ESXi 5
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Interface

PCIe V2.0, backward compatible with earlier PCIe versions

Environmental

Operational Temperature	0 to 70°C
Altitude	10,000 ft
Minimum Airflow Requirements	300 LFM

Warranty

Standard	3 years or maximum endurance used
Extended	5 years or maximum endurance used

For Information...

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