



SCSI Narrow 2.5"

E2S20BL

When Size and Performance Matter
 Enhanced Productivity and System Performance



Ideal for Storage Applications in:

- Desktop and Mobile Computing
- Energy and Utilities
- Medical, Laboratory and Scientific Research
- Military and Aerospace
- Industrial Automation
- Real-Time Data Acquisition
- Control and Instrumentation

E-Disk® Altima™ SCSI Narrow 2.5-inch SSD

The future of storage is solid state, and BITMICRO Networks, Inc. brings you the most advanced solid state disk (SSD) solution with the E-Disk® Altima™ series. Powered by BITMICRO's proprietary "Enhanced Datamover and Storage Accelerator" (EDSA™) flash I/O controller and "Logical Unifier of Extensive Transfer Arrays" (LUNETATM™) memory flash interface ASICs, E-Disk® Altima™ SSDs utilize high-density flash memory chips to create massive storage capacities in standard disk drive form factors. What's more, flash memory-based E-Disk® Altima™ SSDs boost system performance by eliminating seek time and latency for faster I/O and sustained transfer rates. With no moving parts, E-Disk® Altima™ SSDs set the bar for storage reliability, durability and endurance in all types of operating environments.

BITMICRO Networks E-Disk® Altima™ SCSI products offer optimum solution to address ever growing storage capacity requirements and performance demands of today's computing applications. It is designed without device driver requisites, making it easy to install and operate. Armed with patented FlashBus™ technology, E-Disk® Altima™ SCSI offers 20 MB/sec burst rate and storage capacities of up to 300 GB.

Increased High Speed Performance

- 20 MB/sec Burst Rate

Highest Storage Capacities

- 2.5-inch: 8 to 300 GB*

**Up to 20 GB at 9.5 mm height*

Data Security Features

- DataSentinel
- securErase®
- Write Protect

Compliance

- EU RoHS 2002/95/EC

Industry Standard SCSI Interface

- No Device Driver Required
- Ultra SCSI Narrow
- Completely Bootable

SPECIFICATIONS FOR  SCSI Narrow 2.5" Flash Disk and Solid State Disk Storage Solutions

Performance Specifications:

Burst Rate	20 MB/sec
Fully Associative Cache	Up to 64 MB

Physical Specifications:

Form Factor	2.5"	
Storage Capacity*	8 to 300 GB	
Dimension	Width	2.75 in (69.85 mm)
	Length	3.955 in (100.45 mm)
	Height**	0.374 in (9.50 mm) to 1.000 in (25.40 mm)
Weight**	3.016 oz (85.50 gm) to 9.065 oz (257.00 gm)	
Mounting Considerations	HDD Industry Standard, All Orientations	
Connector	50-Pin 2.00 mm 2.5-inch connector	

* 1 GB = 1024 MBytes

**Heights and weights are approximate. Contact your Sales Representative for the specific configurations and tolerance levels.

Endurance:

Write Endurance	8 GB
	38.36 years @ 100 GB/day Erase/Write Cycles
Read Endurance	Unlimited

Compatibility/Compliance:

Supported Security Erase Standards	NISPOM DoD 5220.22-M, NSA 130-2, Air Force AFSSI 5020, Army 380-19, IRIG-106
RoHS Compliance	EU RoHS 2002/95/EC

Reliability:

Bit Error Rate	<10 ⁻²⁷
Data Reliability	Built-in EDC/ECC Based on BCH Algorithm Corrects up to 9 Random Bit Errors per 528-Byte Block; Detects up to 10 Bit Errors
Data Integrity	10 years
Diagnostics	Built-In Power-Up Self Test Self-Monitoring Diagnostics Database

Power Requirements:

Input Voltage	5 VDC (±5%)
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Product Part Number:

Part Number Options	E2S020B + XXXXY + TGM + AC
XXX: Capacity Last digit denotes single decimal number (i.e. 0040G = 4.0 GB, 3000G = 300.0 GB)	9.5 mm Height: 8, 20 >9.5 mm Height: 116, 208, 300
Y: Capacity Unit*	G: Gigabyte
T: Temperature	C: Commercial (0 to 70 °C) I: Industrial (-40 to +85 °C)
G: PowerGuard®	N: No PowerGuard® Option
M: Media Type	L: Large Block SLC NAND Flash
A: Casing	R: Rugged Casing
C: Coating	N: No Conformal Coating (Default) A: Acrylic Conformal Coating S: Silicone Conformal Coating
Example	E2S020B0080GCNLRN

* 1 GB = 1,024 MBytes

BitMICRO's product specifications and engineering development objectives are subject to change at anytime without prior notice. All information provided herein is provided for design comparison and reference purposes only.

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One gigabyte, or GB, equals 1,073,741,824 bytes when referring to solid state disk capacity. Formatted capacity will vary based on various factors, such as type of operating system, file sizes, file formats, optional features, and application software.

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