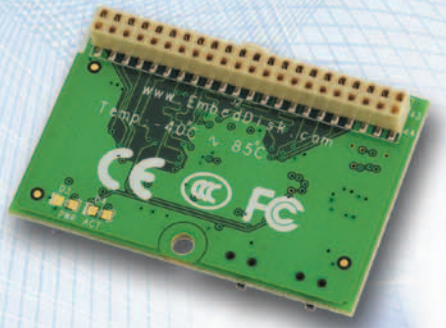
DDOM-SST- 44P-H



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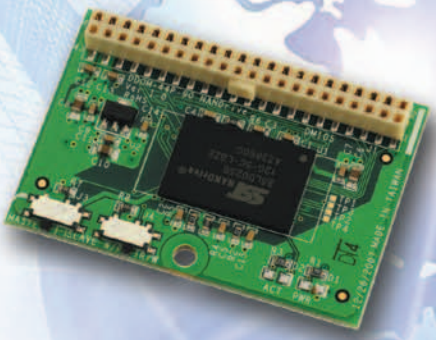

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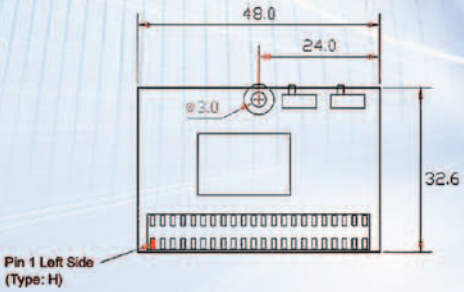

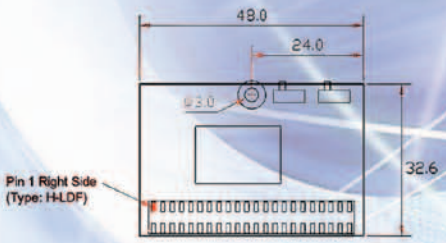

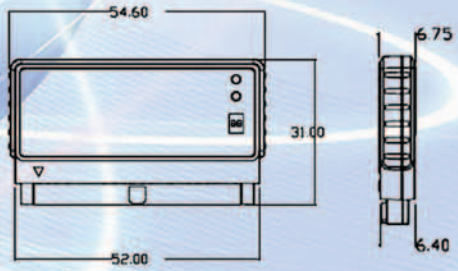

Features

- -40 °C to +85 °C extreme temp range
- Power & Active LEDs, easy to check work status
- RoHS Compliant
- Industrial grade connector, avoid inaccuracy connection
- Write Protect
- Low power operation
- Fixed hole layout
- Unitized 44 pin IDE
- ECC for exceptional data reliability
- Completely solid state – no moving parts
- Entirely bootable for current embedded O/S
- 50G operating shock
- 5G operating vibration
- 16.6 MB/s burst R/W rate
- 10 years data integrity

Ordering information

★ IDE-2.0mm 44pin	★ IDE-2.54mm 40Pin
DDOM-SST-128MB~4GB-44P-H	IDM-128MB~8GB-40P-H-X
DDOM-SST-128MB~4GB-44P-HL	IDM-128MB~8GB-40P-HL-X
DDOM-SST-128MB~4GB-44P-V	IDM-128MB~8GB-40P-V-X

Product Information

- **Dependable and secure**

Designed with advanced IDE flash controller technology, EmbedDisk is 100% compatible with the standard IDE/ATA storage interface without the need for special device driver. This advanced multi-tasking IDE flash controller's integrated error-detection, error-correction, re-mapping and wear-leveling technologies with power hold-up circuit greatly improves data reliability. Its low-power requirement, advanced PIO modes, multi-sector transfer support and LBA addressing can satisfy application with high performance and reliability requirements.

- **Anti Shock & Anti Vibration**

Using advanced solid-state storage technology, without moving parts, EmbedDisk is able to perform all of its designated function without being affected by shock and vibration.

- **Wide Operating Temperature**

EmbedDisk is designed to support commercial and industrial applications operating in environment exposed to extreme temperature range. The EmbedDisk DDOM series supports -40°C to +85°C operating temperature.

EmbedDisk

Wide Temperature -40ºC ~ +85ºC

Specifications

Item	DDOM-SST-128M~256M	DDOM-SST-512G ~ 4G		
IDE Transfer Mode	PIO Mode 0-4 MwDMA Mode 0-2	PIO Mode -6 MwDMA Mode 4 Ultra DMA Mode-4		
Drive Config.	Switch Master/Slave	Switch Master/Slave		
Protocol Mode	N/A	N/A		
Access Mode	N/A	N/A		
Data Transfer Rate		512M	1G	2G
Read Transfer Rate	>10Mbytes	>17Mbytes	>30Mbytes	>30Mbytes
Write Transfer Rate	>5Mbytes	>5Mbytes	>10Mbytes	>20Mbyte
Burst Transfer Rate	16.6MB/sec.			
Serials Physical				
Bus Interface	ATA Compatibility			
Connector	40/44pin IDE/ATA ANSI Standards			
Storage capacity	128M to 4GB			
Sector Size	512 bytes			
Driver Number	Drive 0 or 1			
Environmental Specification				
Operation Temp.	-45°C~+85°C			
Storage Temp.	-65°C~+150°C			
Humidity	10%~95% non-condensing			
Vibration	5G (7~2000Hz)			
Shock	50G/10ms			
System Reliability				
ECC technology	High Reliability based on the internal ECC function			
MTBF	>3,000,000 hours			
R/W Endurance	2,000,000 times (wear-leveling)			
Data integrity	10 years			
Power requirement				
DC input voltage	+5V single power supply operation			
Power mode	Auto Stand-by and sleep mode			
Power consumption	150mA (max.)			
Physical Specification				
Enclosure Material	PC Mechanical Cover and UL-94			
Dimension	44 pin:48 x 32.6 mm (W x H)			