



Features

- Capacities up to 8GB
- Small form factor for embedded applications
- IDE interface
- 2 million write/erase cycles
- Sustained throughput up to 10MB/s
- Low power consumption
- Engineered for harsh environments
- Industrial operating temperature ranges
- Automatic bad block management
- Configurable vendor ID/Product ID (VID/PID)
- MTBF: Over 4 million hours
- 5-year warranty
- RoHS compliant

IDE FlashDisk Module

Industrial Grade Solid State Storage

SimpleTech Flash Disk Modules provide non-volatile, solid-state storage in a compact design perfectly suited for embedded applications. Built-in wear leveling algorithms, on-the-fly ECC, and over two million write/erase cycles give you superior data integrity and reliability. Available with industry standard IDE interface; Application software compatibility is ensured as no proprietary software drivers are required.

At the heart of all SimpleTech industrial grade solid state storage products is a proprietary controller that incorporates an advanced dynamic wear leveling algorithm in combination with 5 bit EDC / 4 bit ECC delivering exceptional endurance and reliability.

With no moving parts, SimpleTech flash disk modules are inherently more rugged and reliable than rotating hard drives. New applications for flash disk modules are rapidly emerging due to the low cost per megabyte. Most applications running embedded operating systems such as VxWorks, Windows, XP/embedded, and Linux do not have large data storage requirements, and a cost savings can be immediately realized.

SimpleTech also offers value-added services like customized form factors, testing, custom firmware, software imaging, controlled bill of materials, customer-specific labeling and serialization.

Product Key

Part #: SLFDM(xx)(zzz)-(xxx)(M/G)M1U(I)

xx = Pin
xxx = Capacity
M/G = Megabyte/Gigabyte
I = Industrial Temperature
U = RoHS Compliant

zzz = IDE Connector Orientation:

V (Vertical), **H** (Horizontal),

LPV (Low profile vertical), **LPH** (Low profile horizontal)

ex. **SLFDM40H-512MM1U(I)** =

512MB 40Pin Flash Disk Module (Horizontal)

SLFDM44LPV-8GM1U(I) =

8GB 44Pin Flash Disk Module (Low profile vertical)

Specifications

INTERFACE

TRUE IDE (40/44 pin)

CAPACITY

128MB to 8GB

PERFORMANCE

Data Transfer Rate

Sustained Read/Write

Up to 10MB/sec

Burst Read/Write

Up to 16.7MB/sec

POWER CONSUMPTION

Typical Power Consumption

Sleep Current

2mA

Read Current

60mA - 70mA

Write Current

65mA - 75mA

ENVIRONMENTAL

Operating Temperature

Commercial

32°F to 158°F (0°C to 70°C)

Industrial

-40°F to 185°F (-40°C to 85°C)

Storage Temperature

-40°F to 185°F (-40°C to 85°C)

Operating Vibration

15 G, 10-2000 Hz @ 147 meter/sec

Operating Shock

1000 G, 4903.3 meter/sec

RELIABILITY

Data Write/Erase Endurance

2 million cycle min.

Data Reliability

1 in 10¹⁴ bits read

Data Retention

10 years

PHYSICAL

Length

2.00 to 2.19 in. (50.80 to 55.63 mm)

Width

0.88 to 1.58 in. (22.35 to 40.13 mm)

Thickness

0.44 to 0.64 in. (11.18 to 16.26 mm)

Applications

- Instrumentation
- Medical Equipment
- Machine Automation
- Telecommunications
- Data Recorders
- Avionics Systems
- Electronic Kiosks
- Networking Equipment



Worldwide Headquarters

STEC, Inc.
3001 Daimler Street
Santa Ana, California 92705 USA
Tel: (949) 476-1180
Fax: (949) 476-1209
Web: www.stec-inc.com

STEC Europe

Donau-City-Strasse 1
1220 Vienna, Austria
Tel: +43-1-263-38-08
Fax: +43-1-263-37-65
Web: www.stec-inc.com

STEC Hong Kong

Unit 01-02, 10/F, 88 Hing Fat Street
Causeway Bay, Hong Kong
Tel: +852-3150-8398
Fax: +852-3150-8399
Web: www.stec-inc.cn

STEC Japan

YOKOHAMA, Landmark Tower
20/F 2-2-1, Minato-Mirai, Nishi-ku
Yokohama, 220-8120, Japan
Tel: +045-670-7030
Fax: +045-670-7001
Web: www.stec-inc.jp

STEC Taiwan

4F, No. 3, Lane 91, Dongmei Road
Hsinchu City, Taiwan
Tel: +886-3-5733233
Fax: +886-3-5733633
Web: www.stec-inc.com