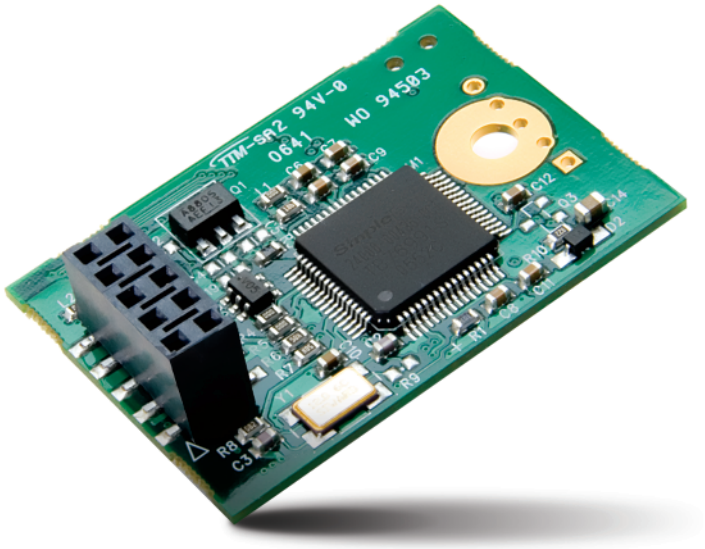


Features

- Solid-state flash disk
- USB 2.0 high speed interface
- Plug-N-Play
- Capacity: 128MB - 8GB
- IC Tower® Stacking Technology
- Password protection
- Unique serial number
- Built-in wear leveling
- Endurance guarantee of 2,000,000 write/erase cycles
- Built-in ECC engine: 5-bytes detection, 4-bytes correction
- Commercial and industrial operating temperature range
- 5 year warranty

USB 2.0 Flash Disk Module **(UFDM)**

Industrial Grade Solid State Storage

USB Flash Disk Module (UFDM) provides non-volatile, solid-state storage in a compact design, making it perfectly suited for embedded applications. STEC's patented IC Tower® Stacking Technology make it possible to provide the UFDM in capacities up to 8GB, the highest in the industry. The standard USB 2.0 interface provides designers with a true plug-n-play storage device, allowing for short design cycles and fast time to market.

STEC's proprietary, state-of-the-art USB 2.0 flash memory controller is incorporated in the UFDM, providing high data reliability and endurance. The built-in ECC engine can detect up to 5-byte errors and correct up to 4-byte errors, while sophisticated wear leveling algorithms guarantee 2,000,000 Write/Erase Cycles. The embedded password protection feature provides the security needed for most industrial applications.

USB Flash Disk Module is available with a standard 2.54mm connector or a 2.0mm low profile connector, specifically suited for designs that have Z-height limitations.

High performance, high reliability and low cost per megabyte make the USB Flash Disk Module the product of choice in embedded applications, such as Gaming, POS Workstations, Networking Equipment and Industrial PCs.

STEC offers value-added services to OEM customers, such as customized form factors and test solutions, custom firmware, controlled Bill Of Materials, customer-specific labeling and serialization.

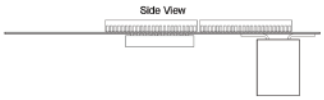
Product Key

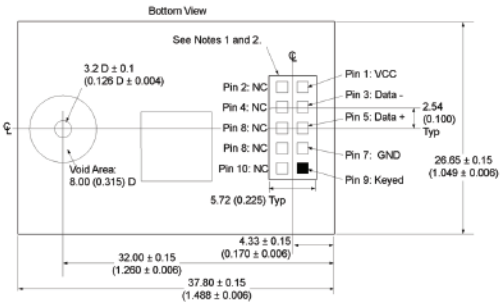
SLUFDMxxx(M/G)U1U(I)-y

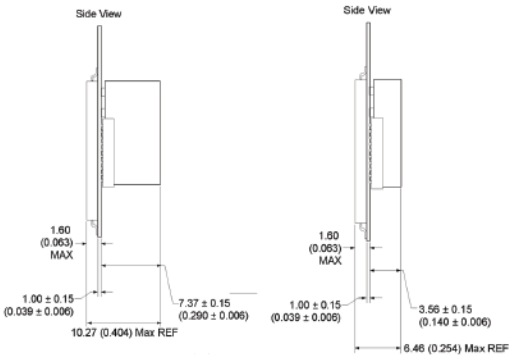
xxx = Capacity
M/G = Megabyte/Gigabyte
U = RoHS-6 Compliant
I = Industrial Temperature
y = Form factor
A= Horizontal
B= Low Profile

Ex. **SLUFDM128MU1U-A =**
128MB USB Flash Disk Module, Horizontal, Lead-Free, Commercial Temperature

SLUFDM1GU1UI-B =
1GB USB Flash Disk Module, Low Profile, Lead-Free, Industrial Temperature







Specifications

Capacity	128MB to 8GB
Interface	
Form Factor	2x5 header, x86 internal USB standard Horizontal, Low profile
USB Interface	USB 1.1, USB 2.0
Performance	
To/From Host	
Burst	Up to 480Mb/sec
Sustained Read	Up to 14MB/sec
Sustained Write	Up to 12MB/sec
Electrical	
DC Input Voltage	5V (± 5%) or 3.3V (± 5%)
Power consumption	
Suspend Mode	500 uA (max)
Operating Mode	150 mA (max)
Environmental	
Commercial Temperature	0ºC to +70ºC
Industrial Temperature	-40ºC to +85ºC
Storage Temperature	-65ºC to +150ºC
Humidity	85ºC, 85% RH, Vmax for 500 hrs
Operating Vibration	20G Peak, 20-2000 Hz, 4 cycles per direction (X, Y and Z)
Operating Shock	1500G Peak, 0.5m pulse duration, 5 pulses, 6 axes
Reliability	
Endurance	2,000,000 write/erase cycles
Built-in ECC Engine	5-bytes detection, 4-bytes correction
Non-Recoverable Error Rate	less than 1 in 10^{14} bit reads
Data Retention	10 years
MTBF	>8,000,000 hrs (Telcordia SR-332, GB, 25°C)
Built-in Wear Leveling	Dynamic
Mechanical Dimensions	
Horizontal	37.80mm (L) x 26.65mm (W) x 10.27mm (H)
Low Profile	37.80mm (L) x 26.65mm (W) x 6.46mm (H)

OS Support

Windows XP Embedded (Service Pack 2007 for booting), Windows for Point Of Service (WEPOS), Windows CE, Linux, VxWorks

Compliance

RoHS-6, UL 60950, FCC – Class B for Information Technology, CE – EN 55022/55024

Applications

- Gaming
- Point-Of-Sale (POS)
- Industrial Automation
- Medical Equipment
- Industrial PCs
- Thin Client
- Networking Equipment (routers, switches, PBX)
- Data Recorders

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