

Features

- USB 2.0 high speed interface
- Capacity: 128MB - 4GB
- Laser etched manufacturing Info
- Lot traceability
- NEBS level 3 compliant for ESD
- 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
- Customizable for logo/graphic design
- 5 year warranty



USB Flash Drive (UFD)

Industrial Grade Solid State Storage

STEC's Industrial Grade USB Flash Drive (UFD) is more than just portable storage. Tailored for Industrial Applications that require high reliability and data throughput, it provides non-volatile, industrial grade solid-state storage in a thumb-drive package. In addition, laser-etched manufacturing information allows for lot traceability and complete info on the Bill of Materials.

STEC's proprietary state-of-the-art USB 2.0 flash memory controller is incorporated in the UFD, 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 Password Protected Secure Partition provides the security needed for most industrial applications.

The Industrial Grade UFD is available in a Standard enclosure with LED light indicator, or an ESD-rated enclosure for applications that require NEBS Level 3 compliancy. The ESD-rated enclosure has been tested for immunity from ESD for 8KV contact and 15KV air.

High performance, high reliability and a controlled Bill-Of-Materials make the Industrial Grade UFD the product of choice in industrial applications, such as Networking Equipment, Gaming, Automotive Diagnostics, Medical Equipment and Industrial PCs.

The UFD is fully customizable to add a company logo, graphic design or text, either by silk screen or laser etching. In addition, STEC offers value-added services to OEM customers, such as pre-loaded content, custom firmware, controlled Bill Of Materials, and serialization.

Product Key

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

xxx = Capacity
M/G = Megabyte/Gigabyte
U = RoHS-6 Compliant
I = Industrial Temperature
y = Enclosure
A= Standard Enclosure
B= ESD-Rated Enclosure

Ex. **SLUFD128MU1U-A =**
128MB USB Flash Drive, Commercial
Temperature, Lead Free, Standard Enclosure

SLUFD4GU1UI-B =
4GB USB Flash Drive, Industrial Temperature,
Lead Free, ESD-rated Enclosure

Specifications

Capacity	128MB to 4GB
Interface	USB Interface USB 1.1, USB 2.0
Performance	Burst Up to 480Mb/sec Sustained Read Up to 14MB/sec Sustained Write Up to 12MB/sec
Electrical	DC Input Voltage 5V (± 10%)
Power consumption	Suspend Mode 500 uA (max) Operating Mode 150 mA (max)
Environmental	Commercial Temperature 0°C to +70°C Industrial Temperature -40°C to +85°C Humidity 85°C, 85% RH, Vmax for 500 hrs (per JESD22-A101) ESD Standard Enclosure 4KV Contact, 8KV Air ESD-rated Enclosure 8KV Contact, 15KV Air Operating Vibration 20G Peak, 20-2000 Hz, 4 cycles per direction (X, Y and Z) (per JESD22-B103) Operating Shock 1500G Peak, 0.5m pulse duration, 5 pulses, 6 axes (per JESD22-B110)
Reliability	Endurance 2,000,000 write/erase cycles Built-in Wear Leveling Dynamic 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 >8M hrs (Telcordia SR-332, GB, 25°C)
Mechanical Dimensions	Standard Enclosure 68.60mm (L) x 18.60mm (W) x 9.10mm (H) ESD-Rated Enclosure 65.10mm (L) x 16.40mm (W) x 5.50mm (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, USB 2.0

Applications

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



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