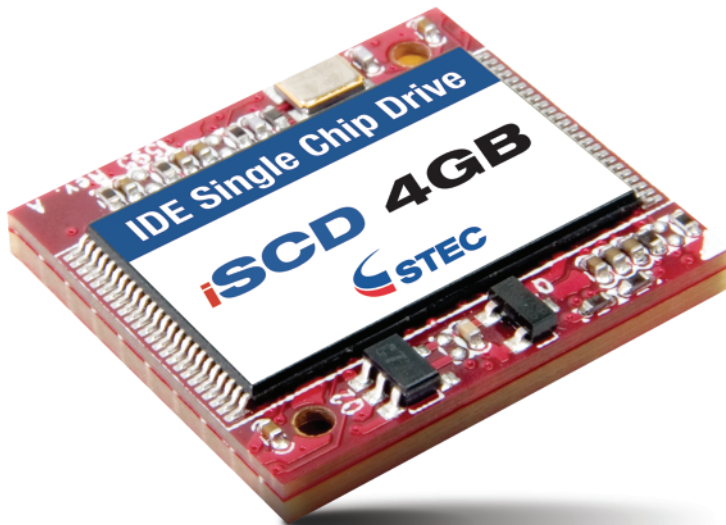


Features

- Solid-state flash disk (no moving parts)
- ATA-5 compatible
- Plug-N-Play
- Capacity: 128MB - 4GB
- IC Tower® Stacking Technology
- Built-in wear leveling
- Life cycle Management
- Endurance guarantee of 2,000,000 write/erase cycles
- Built-in ECC engine: 5-bytes detection, 4-bytes correction
- Low power consumption
- Supports 5V or 3.3V operation
- Commercial and industrial operating temperature range
- 5 year warranty



IDE Single Chip Drive™ (iSCD)

Industrial Grade Solid State Storage

IDE Single Chip Drive™ (iSCD) is a small form factor, solid-state flash disk with no moving parts. Using STEC's patented IC Tower® Stacking Technology, iSCDs are available in the highest capacities in the industry. The standard IDE interface is a true plug-n-play storage device, allowing for short design cycles and fast time to market.

STEC's proprietary, state-of-the-art flash Mach1 memory controller is incorporated in the iSCD, 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 Life Cycle Management feature can be used as an indicator on the wear-out of the flash chips that are used in the device.

IDE Single Chip Drive is available in a 50-ball package and can be configured with either a single flash device (form factor A), or two stacked flash devices (form factor B) by using STEC's patented IC Tower® Stacking Technology.

High performance, high reliability and low cost per megabyte make the IDE Single Chip Drive the product of choice in embedded applications, such as GPS, Thin Clients, Point-Of-Sales, Networking Equipment and hand-held devices.

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.

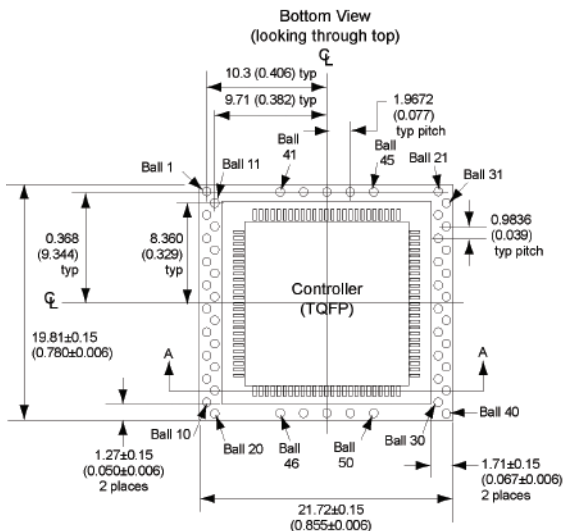
Product Key

SLISCDxxx(M/G)M1U(I)-y

xxx = Capacity
M/G = Megabyte/Gigabyte
U = RoHS-6 Compliant
I = Industrial Temperature
y = Form factor
A= Single Flash iSCD
B= Stacked Flash iSCD

Ex. **SLISCD1GM1U-A =**
1GB IDE Single Chip Drive, Commercial Temp,
Form Factor A, Lead-Free

SLISCD512MM1UI-B =
512MB IDE Single Chip Drive, Industrial
Temp, Form Factor B, Lead-Free



Specifications

Capacity	128MB to 4GB
Form factor	50-ball package Single Flash or Stacked Flash
IDE compatibility	ATA-5 compatible Transfer modes: PIO 0-6, MWDMA 0-4 Supports PC Card Memory, PC Card I/O, and True IDE Mode
Performance	Sustained Read Up to 10MB/sec Sustained Write Up to 7MB/sec
Electrical	DC Input Voltage 5V (± 5%) or 3.3V (± 5%)
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 Built-in Wear Leveling Dynamic MTBF >8,000,000 hrs (Telcordia SR-332, GB, 25°C)
Power consumption	Sleep/Idle mode 2mA (max) Operating mode 75mA (max)
Environmental	Commercial Temperature 0°C to +70°C Industrial Temperature -40°C to +85°C Storage Temperature -65°C to +150°C Humidity 85°C, 85% RH, Vmax for 500 hrs (per JESD22-A101) 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)
Mechanical dimensions	Single Flash: 21.7mm (L) x 19.2mm (W) x 3.8mm (H) Stacked flash: 21.7mm (L) x 19.2mm (W) x 5.0mm (H)

Compliance

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

Applications

- Thin Client
- Point-of-Sale
- Electronic Kiosks
- Gaming
- Networking Equipment (routers, switches, PBX)
- Industrial Automation
- Medical Equipment
- Data Recorders



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