

USB Memory Key

Enterprise USB Memory Key

SMART Modular Technologies' Enterprise USB Memory Key is offered with single-level cell (SLC) NAND flash in capacities of 1GB to 32GB. The USB Memory keys provide enhanced reliability by incorporating onboard error detection and correction, and global wear leveling algorithms that provide reliable operation over a product's life.

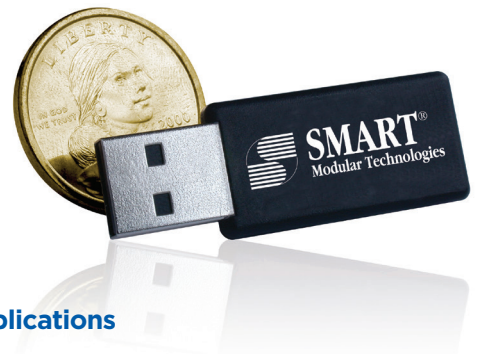
SLC NAND provides superior durability and reliability over multi-level cell (MLC) NAND technology. It is an ideal choice for mission-critical enterprise IT and field service applications.

Features & Benefits

- Zero seek time
- Noiseless operation
- Low power dissipation
- Field upgradeable firmware via USB bus
- Small form factor

Product Family Overview

	Capacity	Performance Sequential
Enterprise USB Memory Key		
USB 2.0 SLC	1GB to 16GB	34MB/s Read (max) 29MB/s Write (max)



Applications

- Server firmware upgrades
- Specialized industrial applications

Specifications

Enterprise USB Memory Key			
Performance			
	SLC		
Read (maximum)	34MB/s		
Write (maximum)	29MB/s		
Host Interface Rate (maximum)	480MBits/s		
Reliability			
Data Retention	10 years > 90% life remaining 1 years < 10% life remaining		
Endurance	3 TBW per GB of capacity		
Error Correction / Error Detection (BCH)	Advanced multi-bit error correction		
Power			
	Typical	Maximum	
Vcc	5.0	5.5	V
Read	100	120	mA
Write	100	120	mA
Idle	50	60	mA
Environmental			
Shock/Acceleration	Operating Half-Sine 70 in/sec, 3 shocks along each axis, X, Y, Z, in each direction		
Vibration Operating	0.9 g rms 10-500 Hz, 30 minutes per side (total of 6 sides)		
Vibration Non-Operating	Random 13.6 g rms 10-500 Hz, 30 minutes per side (total of 6 sides)		
Operating Temperature - Commercial	0°C to 70°C		
Storage Temperature	-40°C to 85°C		
Humidity	5% to 95%, non-condensing, relative humidity		
Physical			
	Standard		
Length	46.15 mm [1.82 in]		
Width	17.02 mm [0.67 in]		
Thickness	5.33 mm [0.21 in]		

Ordering Information

Part Number	Capacity
USB Short Key SLC	
SH9MK1GQ9	1GB
SH9MK2GQA	2GB
SH9MK4GQB	4GB
SH9MK8GQC	8GB
SH9MK16GQD	16GB

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