

Enterprise USB Memory Key

USB Memory Key

SMART Modular Technologies' Enterprise USB Memory Key is offered with single-level cell (SLC) NAND flash in capacities of 1GB to 16GB. 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	130	mA
Write	100	130	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]

Contact information

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