

XceedLite Mini-IDE

XceedLite Mini-IDE Flash Drive

SMART's XceedLite Mini-IDE Flash drive is designed for applications which require high random access performance, high reliability and low power consumption with a wide range of operating temperatures. This rugged, industrial grade solid-state drive (SSD) is an ideal code and data storage solution realized in industry standard 40-pin Mini-IDE form factors.

SMART's XceedLite Mini-IDE Flash drive works like a hard disk drive but offers the reliability of solid-state devices. This drive contains no moving parts, enabling zero noise emission systems, and offers extreme device longevity in mobile and embedded computing, Internet appliances, telecom and networking applications. The XceedLite Mini-IDE is available in densities from 64MB to 8GB.



XceedLite Mini-IDE Flash Drive Features

- Type: 40 Pin Mini-IDE, Vertical
- Interface: IDE (PC/AT)
- Supported Modes:
 - PIO Mode: 0-4
 - Multiword DMA Mode: 0-2
 - Ultra DMA Mode: 0-5
- Interface Transfer Rate: 100 MB/sec (maximum)
 - PIO Mode: 24MB/s Read, 12MB/s Write (maximum)
 - Ultra DMA Mode: 47MB/s Read, 25MB/s Write (maximum)
- Capacity: 64MByte - 8 GB

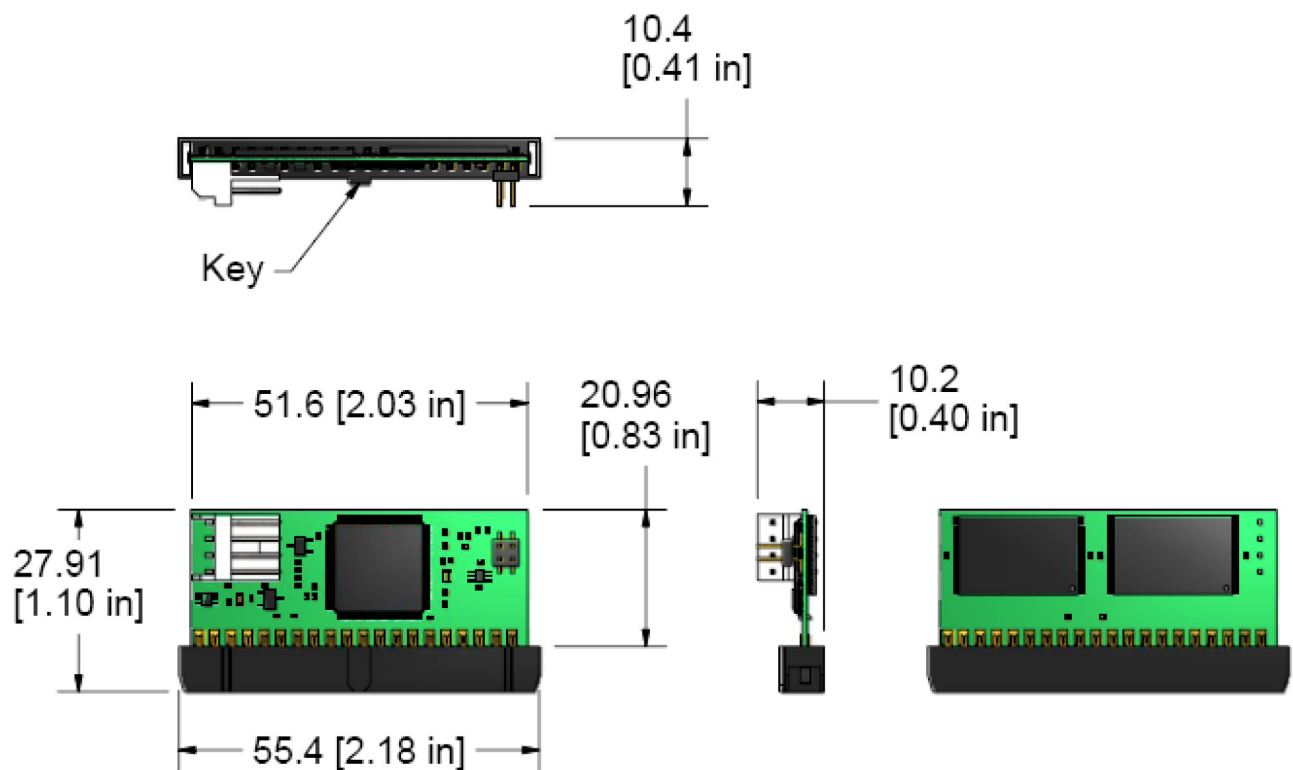
XceedLite Mini-IDE Flash Drive Specifications

Performance Characteristics		
Read (maximum)	47MB/s	
Write (maximum)	25MB/s	
Host Interface Transfer Rate (maximum)	100MB/s	
Reliability Characteristics		
Data Reliability	100MB/s in 1014 bits read	
Data Retention	10 years @ 25°C	
Endurance	> 2Million program/erase cycles per Logical Block Address (LBA)	
Error Correction / Error Detection (BCH)	4 symbol Reed Solomon / 4 random bytes in 528bytes	
Power		
Vcc	5.0 ± 5%	V
Read	80	mA
Write	70	mA
Idle	9	mA
Environmental Conditions and Testing		
Shock – Operating	50G Max @ 11ms	
Vibration – Operating	15G Peak to Peak	
Operating Temperature – Commercial	0°C to 70°C	
Operating Temperature – Industrial	-40°C to 85°C	
Storage Temperature	-65°C to 150°C	
Humidity	5% to 95%	
Altitude	Up to 80,000 ft	
Physical Characteristics		
Length	55.4mm [2.18in.]	
Width	10.4mm [0.41in.]	
Height	27.91mm [1.10in.]	
Weight (Maximum)	0.36oz [10.2gram]	

Ordering Information

SMART Part Number	Capacity	Unformatted	Cylinders	Heads	Sectors/Track	Max LBA
SG9IDE4G64SME5	64MB	63,438,848	484	8	32	123,904
SG9IDE4G128SME1	128MB	127,008,768	969	8	32	248,064
SG9IDE4G256SME1	256MB	254,541,824	971	16	32	497,152
SG9IDE4G512SME2	512MB	509,386,752	987	16	63	994,896
SG9IDE4G1GSME4	1GB	1,018,773,504	1,974	16	63	1,989,792
SG9IDE4G2GSME9	2GB	2,004,516,864	3,884	16	63	3,915,072
SG9IDE4G4GSMEA	4GB	4,009,549,824	7,769	16	63	7,831,152
SG9IDE4G8GSMEB	8GB	7,985,553,408	15,148	16	63	15,596,784

XceedLite Mini-IDE Flash Drive Diagram



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