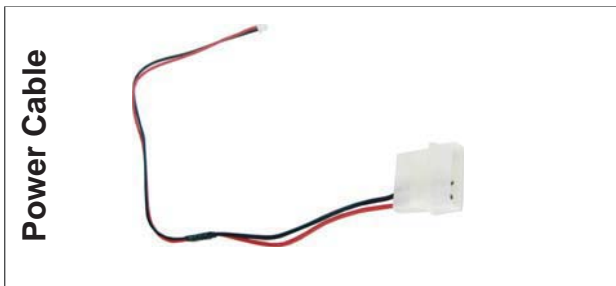


7-pin SATA FDM

SATA Flash Disk Module



Super Talent's SATA Flash Disk Modules (FDM) provide high performance non-volatile storage in a compact form factor, with standard SATA interfaces, making them a perfect fit for embedded applications. This FDM mounts vertically, has a 7-pin SATA data interface, and ships with a 10" 2-wire power cable which connects at the top of the module through the micro-connector. This product features sequential read speeds up to 165MB/sec, and sequential write speeds up to 125MB/sec. The FDM has no moving parts and is capable of withstanding extreme environments. This FDM uses SLC flash to suffice applications with the greatest reliability and cycling requirements.

Target Markets Include

- Industrial PC
- Thin Clients
- Gaming Machines
- Embedded Computing

Performance Specifications

Device	Sequential Read Max (MB/Sec)	Sequential Write Max (MB/Sec)
SM8GA5R7R	150	80
SM16A6R7R	165	125

- Access Time: 0.1 ms

Ordering Information

Capacity	Flash	Part Number
4GB	SLC	SM4GA557R/L
8GB	SLC	SM8GA557R/L
16GB	SLC	SM16A657R/L
8GB	MLC	SM8GN757R/L
16GB	MLC	SM16N757R/L
32GB	MLC	SM32N757R/L
64GB	MLC	SM64N857R/L
128GB	MLC	SM28N957R/L

Physical Specifications

Form Factor	7-pin SATA FDM
*Capacity	8GB – 16GB
Dimension	55.0mm x 33.0mm
Interface	Serial ATA 3.0Gb (SATA-II)
Flash	SLC
Power Supply	5.0V ± 10%
Package	Assembled PCB

Reliability Specifications

Warranty	3 years
Error Correction	Built-in ECC/EDC Functionality
Wear Leveling Algorithm	Patent Pending

Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temp.	0°C to +70°C (Commercial)

7-pin SATA FDM

SATA Flash Disk Module

SATA Flash Drive Pin Assignment

Signal Segment

PIN	Signal Name	Description
S1	GND	
S2	RxP	Differential Signal pair for Receive
S3	RxN	
S4	GND	
S5	TxN	Differential Signal pair for Transmit
S6	TxP	
S7	GND	