

## Flash Disk Module (FDM)

### 9-Pin USB 2.0 FDM



Vertical



Horizontal

Horizontal-A



Horizontal-B



Super Talent's Flash Disk Module (FDMs) provide non-volatile storage in a compact design, making a perfect fit for embedded applications. For this FDM product, there are three mounting options to accommodate different customer deployments, Vertical, which mounts perpendicular to the motherboard; Horizontal-A and Horizontal-B, which mount parallel to the motherboard for low profile enclosures. All three models have a 9-pin USB 2.0 interface.

These FDMs are substantially smaller, lighter weight and consume less power compared to hard drives, yet have sufficient storage space to load an O/S and serve as a bootable drive for embedded applications. Moreover, these devices have excellent resistance to shock, vibration, dust, temperature extremes and other environmental hazards. They are available with either SLC or MLC flash in capacities up to 16GB.

### Physical Specifications

Mount Type	Vertical / Horizontal
Capacity	4GB - 16GB
Interface	9-pin USB 2.0
OS Support	All
NAND Flash	MLC / SLC
Power Supply	5V +/- 10%
Power Consumption (seek)	150mA max
Dimensions	Horiz: 35.0 x 21.4 mm Vert: 45.9 x 19.3 mm

### Environmental Specifications

Shock (operating)	1000G
Vibration (operating)	15G
Operating Temperature	0° to +70° C

### Performance Specifications

MTBF	1,000,000 hours	
Data Integrity	10 years	
Seq. Read (max)	25 MB/sec (MLC)	32MB/sec (SLC)
Seq. Write (max)	10 MB/sec (MLC)	29MB/sec (SLC)

### Ordering Information

	MLC	SLC
4GB Vertical	FLM4GQ09V	FLD4GQ09V
8GB Vertical	FLM8GQ09V	FLD8GQ09V
16GB Vertical	FLM16Q09V	
4GB Horizontal-A	FLM4GQ09HA	FLD4GQ09HA
8GB Horizontal-A	FLM8GQ09HA	FLD8GQ09HA
16GB Horizontal-A	FLM16Q09HA	
4GB Horizontal-B	FLM4GQ09HB	FLD4GQ09HB
8GB Horizontal-B	FLM8GQ09HB	FLD8GQ09HB
16GB Horizontal-B	FLM16Q09HB	

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10-Pin USB 2.0 FDM

Pin Assignment

Pin #	Signal	Pin #	Signal
2	NC	1	Vcc
4	NC	3	Data +
6	NC	5	Data -
8	NC	7	GND
10	NC	9	Key

Dimensional Drawing

