

Flash Disk Module (FDM)

40-pin IDE Vertical



Super Talent's Flash Disk Module (FDMs) provide non-volatile storage in a compact design, making a perfect fit for embedded applications. This FDM model mounts vertically and is available with either a 40- or 44-pin IDE interface. While typical spinning hard disk drives are the weakest point when it comes to withstanding extremes, FDM's are an asset and ideal to use in severe environments. Other benefits of FDMs are that they are rugged, lightweight, silent, and have low power consumption. Features include:

- MLC or SLC NAND Flash options
- Platform Independence
- Fast Time to Market - No Driver Required
- Hamming Code-Based EDC/ECC
- Internal and external operation from 16GB-128GB capacity
- IDE Master/Slave Modes of Operation

Physical Specifications

Mount Type	Vertical
Capacity	16GB - 128G
Interface	40-pin IDE
Modes	PIO Mode 0-6, MDMA Mode 0-4, UDMA Mode 0-7
OS Support	All
NAND Flash	MLC
Power Supply	5V ± 10%

Environmental Specifications

Shock (operating)	1500G
Vibration (operating)	16G
Temperature (operating)	0°C to +70°C

Performance Specifications

MLC (Read/Write)	110 / 70
SLC (Read/Write)	N / A
Access Time	0.1 ms

Endurance Specifications

MTBF	+1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Wear Leveling	Patent Pending
Read	Unlimited