

## Flash Disk Module (FDM)

### 44-pin IDE Horizontal



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 horizontally 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, FDMs 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

### Specifications

<b>Mount Type</b>	Horizontal
<b>Capacity</b>	16GB - 128G
<b>Interface</b>	44-pin IDE
<b>Modes</b>	ATA-7 standard compliant, PIO Mode 0-6, MDMA Mode 0-4, UDMA Mode 0-7
<b>OS Support</b>	All
<b>NAND Flash</b>	MLC / SLC
<b>Power Supply</b>	5V ± 10%

### Performance Specifications

<b>MLC (Read/Write)</b>	110 / 75
<b>SLC (Read/Write)</b>	110 / 75
<b>Access Time</b>	0.1 ms

### Environmental Specifications

<b>Shock (operating)</b>	1500G ( duration : 5ms )
<b>Vibration (operating)</b>	16G ( 7Hz~2KHz )
<b>Temperature (operating)</b>	0°C to 70°C

### Endurance Specifications

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

### Ordering Information

Capacity(MLC)	Commercial Temp
16GB	FE501610RM
32GB	FE503210RM
64GB	FE506410RM
128GB	FE512810RM

\*EOL Part Number : FE5\*\*\*MERM

Capacity(SLC)	Commercial Temp
16GB	FEH01610RM
32GB	FEH03210RM
64GB	FEH06410RM

\*EOL Part Number : FEH\*\*\*MERM