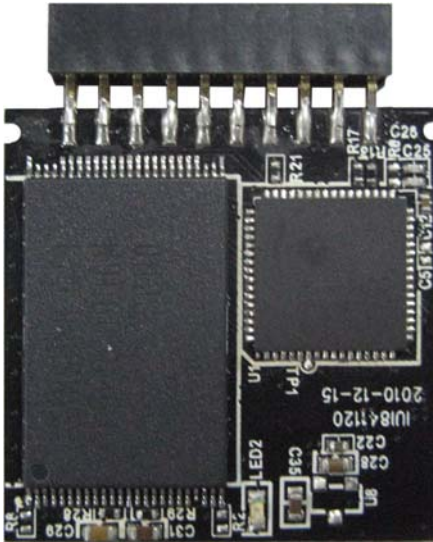


■ Flash Disk Module (FDM)

USB 3.0 FDM



Super Talent's New USB 3.0 Flash Disk Module (FDMs) provide accelerated non-volatile storage in a compact design, making them a perfect fit for embedded applications.

These FDMs are substantially smaller in size, lighter in weight, and consume less power compared to hard drives and offer plenty of room to load an O/S and serve as a bootable drive for embedded applications.

Moreover, these devices exhibit dramatically improved access times, 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 32GB.

This new USB 3.0 FDM product features the new 19-pin interface which mounts perpendicular to the motherboard. This USB3.0 FDM module supports the standard USB mass storage class protocol. This new interface connects to most modern motherboards and support Windows, Linux, or MAC OS X without additional drivers or firmware. This flexibility enables it to accommodate a variety of different customer deployments and applications.

OS Support:
Windows XP, Windows Vista, Windows 7, Linux, MAC OS X

Physical Specifications

Mount Type	Vertical
Capacity	4-32GB
Interface	19-Pin USB 3.0
OS Support	Windows XP, Vista, Windows 7
NAND Flash	MLC/SLC*
Power Supply	5V+/- 10%
Dimensions	32.2mm(h) x 26.2mm(w) and 4mm(t)

* SLC available upon request with MOQ. Call for details.

Environmental Specifications

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

Performance Specifications

MTBF	1,000,000 hours
Data Integrity	10 years
Seq. Read (max)	85 MB/sec (MLC)
Seq. Write (max)	40 MB/sec (MLC)

Ordering Information

Part Number	Description
ST3U08FDM1	USB 3.0 FDM 8GB
ST3U16FDM1	USB 3.0 FDM 16GB
ST3U32FDM1	USB 3.0 FDM 32GB

Flash Disk Module (FDM)

USB 3.0 FDM

Pin Assignment

Pin	Signal Name	Description	Mating Sequence
1	VBUS	Power	First
2	SSRX-	SuperSpeed receiver differential pair	Last
3	SSRX+		
4	GND_DRAIN	Ground for signal return	
5	SSTX-	SuperSpeed transmitter differential pair	
6	SSTX+		
7	GND	Ground for power return	First
8	D-	USB2.0 differential pair	Second
9	D+		
10	ID	NC	
11	NC	NC	
20			

Dimensional Drawing

