

Flash Disk Module (FDM)

PCIe FDM



Super Talent's new compact PCIe Flash Disk Module may be small in volume-but is no slouch when it comes to read/write performance even conditions deemed too harsh for hard disk drives. Unlike out dated hard drives, this PCIe SSD holds the ability to provide sufficient storage space and enhanced boot times on your O/S-all the while insuring the ability to perform under vibration, and volatile temperatures.

Efficient and durable solutions can be imperative to Industrial and Commercial businesses. The market of embedded applications has been searching for the ideal embedded storage solution and the STT PCIe FDM is now a reliable answer.

Available in up to 64GB of capacity this new PCIe is PCIe Express 2.0 Complaint while strutting a razor thin profile and feather like weight. The STT PCIe is sure to make the server and mobile market drool as it helps to saves on Total Overall Cost by offering:

- Green level power consumption
- Ability to conform to the smallest of environments
- Cable free connection

Physical Specifications

Mount Type	Vertical
Capacity	8-64GB
Interface	PCIe
OS Support	Windows XP, Vista, Windows 7, Linux
NAND Flash	MLC/SLC*
Power Supply	3.3V+/- 10%
Dimensions	50mm(h) x 35.75mm(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	
Device Capacity	Seq. Read (max)	Seq. Write (max)
8GB	52MB/s	12MB/s
16GB	103MB/s	25MB/s
32GB	144MB/s	40MB/s
64GB	159MB/s	85 MB/s

Ordering Information

Part Number	Description
SN08N6AME	PCIe 8GB
SN16N6AME	PCIe 16GB
SN32N6AME	PCIe 32GB
SN64N6AME	PCIe 64GB

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Pin Assignment

Pin #	Side B Connector (BTM)		Side A Connector (TOP)	
	Signal Name	Description	Signal Name	Description
1	NC	Not Connected	PRSNT#1	Hot plug presence detect
2	NC	Not Connected	NC	Not Connected
3	NC	Not Connected	NC	Not Connected
4	GND	Ground	GND	Ground
5	NC	Not Connected	NC	Not Connected
6	NC	Not Connected	NC	Not Connected
7	GND	Ground	NC	Not Connected
8	+3.3V	+3.3 volt power	NC	Not Connected
9	NC	Not Connected	+3.3V	+3.3 volt power
10	NC	Not Connected	+3.3V	+3.3 volt power
11	NC	Not Connected	PWRGD	Power Good
Mechanical Key				
12	NC	Not Connected	GND	Ground
13	GND	Ground	REFCLK+	Reference Clock
14	HSOp(0)	Transmitter Lane 0,	REFCLK-	Differential pair
15	HSOn(0)	Differential pair	GND	Ground
16	GND	Ground	HSIp(0)	Receiver Lane 0,
17	PRSNT#2	Hot Plug detect	HSIn(0)	Differential pair
18	GND	Ground	GND	Ground

Dimensional Drawing

