

## VSSD Bolt



Super Talent's Value SSD (VSSD) Bolt delivers all the advantages of solid-state storage without the high sticker price most SSDs carry, which means you get performance and reliability on a budget. With no moving parts, the VSSD Bolt is exceptionally rugged compared to hard disk drives (HDDs), enjoying far superior resistance to shock and vibration.

The Bolt offers shorter boot up times, faster application loading, less power consumption and a brand new computing experience you can never get from traditional HDDs. It features a second-generation SandForce® processor and offers fast read/write speeds of up to 250MB/second – up to three times faster than previous-generation VSSDs.

With seven different capacities to choose from, you can easily find the right capacity to meet your storage needs.

### Physical Specifications

Form Factor	2.5"
Capacities	16GB, 24GB, 32GB, 48GB, 64GB, 96GB, and 128GB
Dimensions	100.20 x 69.85 x 9.00 mm
SATA Interface	SATA 3.0Gbps (SATA-II) or SATA 1.5Gbps (SATA-I)
NAND Flash	MLC
Power Supply	5.0V ±10%
Package	Metal housing

### Environmental Specifications

Operating Temperature	0°C to 70°C (Commercial)
Humidity	5% to ~98% RH
Operating Shock	1500G
Operating Vibration	16G
Operating Altitude	120,000ft

### Performance Specifications

Capacity	Seq. Read (MB/sec max)	Seq. Write (MB/sec max)	IOPS (4KB block random read and random write)
16GB	250	250	Up to 60K
24GB	250	250	Up to 60K
32GB	250	250	Up to 60K
48GB	250	250	Up to 60K
64GB	250	250	Up to 60K
96GB	250	250	Up to 60K
128GB	250	250	Up to 60K

### Reliability Specifications

MTBF	1,200,000 hours
Data Reliability	Built-in EDC/ECC function
Wear Leveling Algor.	Superior wear-leveling

### Ordering Information

16GB	FTM01G425V
24GB	FTM02G425V
32GB	FTM03G425V
48GB	FTM04G425V
64GB	FTM06G425V
96GB	FTM09G825V
128GB	FTM12G825V

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### SATA Flash Drive Pin Assignment

#### Power Segment

PIN	Signal Name	Description
P1	Not Used (3.3V)	N/A
P2	Not Used (3.3V)	N/A
P3	Not Used (3.3V Precharge)	
P4	GND	1 <sup>st</sup> mate
P5	GND	2 <sup>nd</sup> mate
P6	GND	
P7	5V Precharge	5V Power
P8	5V Precharge	5V Power
P9	5V Precharge	
P10	GND	
P11	Reserved	
P12	GND	1 <sup>st</sup> mate
P13	Not Used (12V Precharge)	N/A
P14	Not Used (12V)	
P15	Not Used (12V)	

#### Signal Segment

PIN	Signal Name	Description
S1	GND	
S2	RxP	Differential Signal pair for Receive
S3	RxN	
S4	GND	
S5	TxN	Differential Signal pair for Transmit
S6	TxP	
S7	GND	

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### Mechanical Specifications

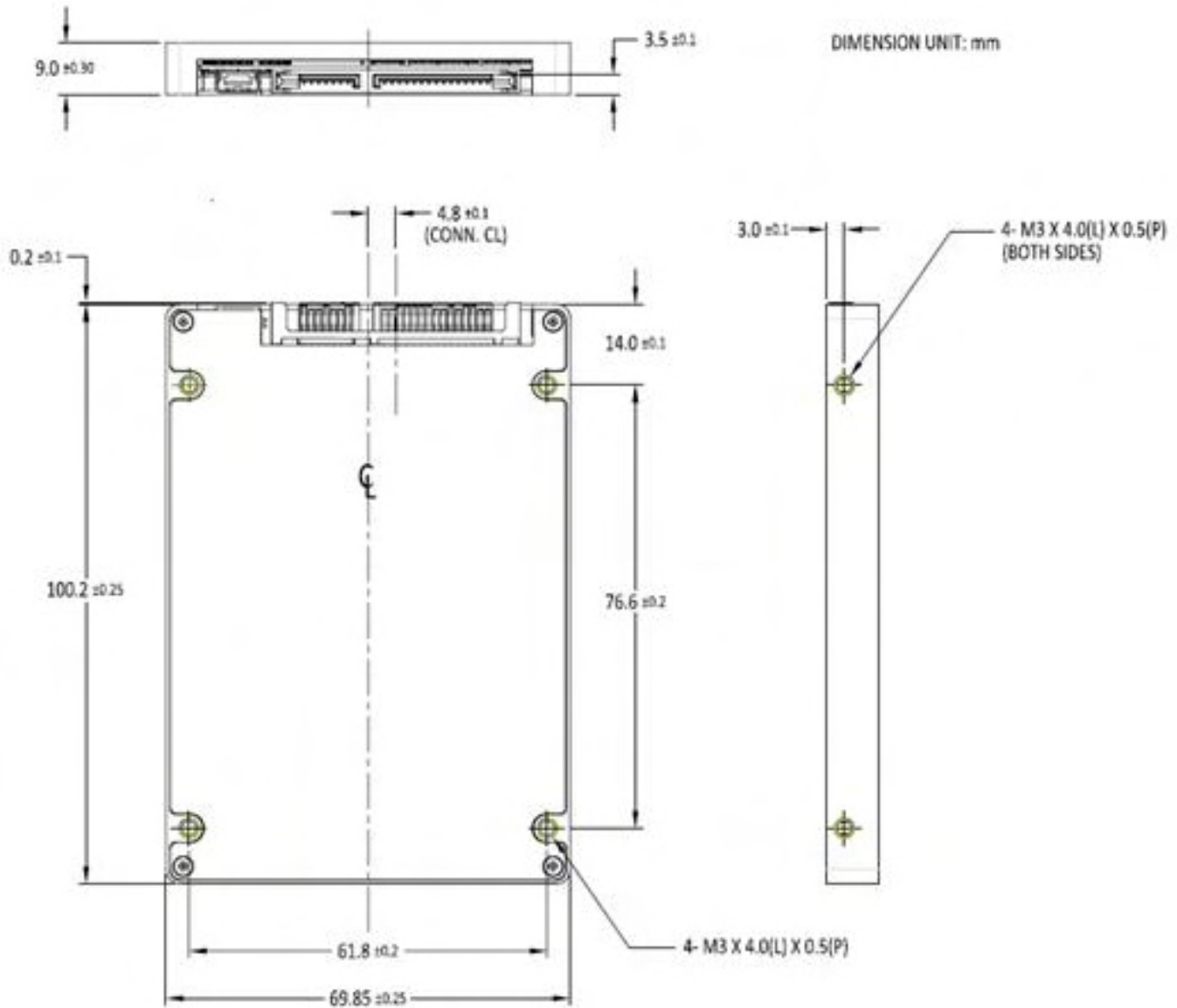


Figure 1: 2.5" SSD Outline Drawing