

■ ■ ShuttleCraft™ SAS SSD  
2 Full Duplex SAS 6Gbps SSD



Super Talent's ShuttleCraft™ is an SSD designed for the Data Center and Server Market. The ShuttleCraft SSD supports the new SAS interface which offers: higher signal integrity, more reliably and support for longer cable lengths. But perhaps most importantly, the SAS interface enables the data center to increase the number of drives per server (node). Unlike SATA, where we can only fit 6 drives per node (server), the SAS interface can support thousands of disks per node, through the use of expanders. For data center, this enables them to increase performance, reliability and capacity while reducing the number of required servers, use less real-estate and reduce their carbon footprint. Better signal integrity, more reliability, less servers, that's the advantage of SAS. Super Talent is dedicated to working with our customers as this new market emerges and the true possibilities of the SAS interface are unveiled.

**Physical Specifications**

Form Factor	2.5"
Capacity*	60GB – 480GB
Dimension	69.85 x 100.20 x 10.50mm
SATA Interface	Serial Attached SCSI 6Gbps
NAND Flash	MLC / SLC
Cache	64MB DRAM Cache
Power Supply	5.0Vcc +/- 5%
Package	Metal housing

**Performance Specifications**

Part Number	Seq. Read (MB/sec max)	Seq. Write (MB/sec max)
CO06N6X25S (MLC)	250	170
CO12N7X25S (MLC)	280	200
CO24N8X25S (MLC)	280	200
CO48N8X25S (MLC)	280	200
CO06A6X25S (SLC)	250	170
CO12A6X25S (SLC)	280	200

**Environmental Specifications**

Operating Shock	100G.
Operating Vibration	16G
Operating Temperature	0C to +70C
Operating Humidity	5 to 90%

**Ordering Information**

Capacity	MLC	SLC
60GB	CO06N6X25S	CO06AxX25S
120GB	CO12N7X25S	CO12AxX25S
240GB	CO24N8X25S	
480GB	CO48N8X25S	

**Reliability Specifications**

MTBF	1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Data Integrity	Up to 10 years
Wear Leveling Algor.	Static and Dynamic

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**Serial Attached SCSI (SAS) drive Pin Assignment**

Segment	Pin	Symbol	Description
POWER	P1	NC (V33)	NC
POWER	P2	NC (V33)	NC
POWER	P3	NC (V33, precharge)	NC
POWER	P4	Ground	Ground for Power Return
POWER	P5	Ground	Ground for Power Return
POWER	P6	Ground	Ground for Power Return
POWER	P7	V5, precharge	Power 5.0V
POWER	P8	V5	Power 5.0V
POWER	P9	V5	Power 5.0V
POWER	P10	Ground	Ground for Power Return
POWER	P11	Ready LED	Open Collector Out
POWER	P12	Ground	Ground for Power Return
POWER	P13	NC (V12, precharge)	NC
POWER	P14	NC (V12)	NC
POWER	P15	NC (V12)	NC

**Signal Segment**

Segment	Pin	Symbol	Description
Primary Signal	S1	Ground	Port A Ground
Primary Signal	S2	RP+	Port A Positive Diff. Input pair
Primary Signal	S3	RP-	Port A Negative Diff. Input pair
Primary Signal	S4	Ground	Port A Ground
Primary Signal	S5	TP-	Port A Negative Diff. Output pair
Primary Signal	S6	TP+	Port A Positive Diff. Output pair
Primary Signal	S7	Ground	Port A Ground
Secondary Signal	S8	Ground	Port B Ground
Secondary Signal	S9	RS+	Port B Positive Diff. Input pair
Secondary Signal	S10	RS-	Port B Negative Diff. Input pair
Secondary Signal	S11	Ground	Port B Ground
Secondary Signal	S12	TS-	Port B Negative Diff. Output pair
Secondary Signal	S13	TS+	Port B Positive Diff. Output pair
Secondary Signal	S14	Ground	Port B Ground

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