

# SOLID STATE DRIVE SATA2

LSSDSATA2-64GB, LSSDSATA2-128GB, LSSDSATA2-64GB-I, LSSDSATA2-128GB-I



*The Legend SSD SATA2 series is the Next Evolution in Data Storage.*

*The SATA2 SSD provides a faster, quieter and more durable solution for data storage compared to traditional HDD.*

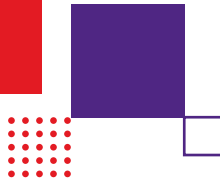
*The series caters for the home user or commercial (MLC) user up to the Industrial (SLC) user where vibration and durability are an issue.*

*The series provides superior read speeds of 170mb/s and writes speeds of 130mb/sec in the Industrial (SLC) range and read speeds of 150mb/s and write speeds of 100mb/s in the Commercial (MLC) range.*

## **Part Numbers**

*Commercial (MLC)  
LSSDSATA2-64GB  
LSSDSATA2-128GB*

*Industrial (SLC)  
LSSDSATA2-64GB-I  
LSSDSATA2-128GB-I*



## Commercial (MLC)

### Physical Specifications

Form Factor	2.5"
Capacity	64GB, 128GB
Dimension	69.85mm x 100.20mm x 9.50mm
SATA Interface	Serial ATA-II
NAND Flash	MLC
Power Supply	5.0V <sub>cc</sub> ± 5%
Package	Complete metal housing

### Reliability Specifications

MTBF	+1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Data Integrity	5 years
Wear Leveling Algor.	Patent Pending

### Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temp.	0°C to +70°C

## Industrial (SLC)

### Physical Specifications

Form Factor	2.5"
*Capacity	64GB, 128GB
Dimension	69.85mm x 100.20mm x 9.50mm
SATA Interface	Serial ATA-II
NAND Flash	SLC
Power Supply	5.0V <sub>cc</sub> ± 5%
Package	Complete metal housing

### Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temp.	0°C to +70°C

### Ordering Information

64GB	LSSDSATA2-64GB-I
128GB	LSSDSATA2-128GB-I

### Endurance Specifications

Read		Unlimited
Write	64GB	35.1 yrs @ 50GB write-erase/day
	128GB	70.1 yrs @ 50GB write-erase/day

### Performance Specifications

Seq. Read	150 MB/sec (max)
Seq. Write	100 MB/sec (max)
Access Time	0.1 ms

### Ordering Information

64GB	LSSDSATA2-64GB
128GB	LSSDSATA2-128GB

### Performance Specifications

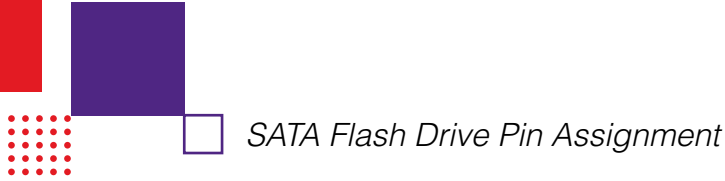
Seq. Read	170 MB/sec (max)
Seq. Write	130 MB/sec (max)
Access Time	0.1 ms

### Reliability Specifications

MTBF	+1,000,000 hours
Data Reliability	Built-in EDC/ECC function
Data Integrity	10 years
Wear Leveling Algor.	Patent Pending

### Endurance Specifications

Read		Unlimited
Write	64GB	350.7 yrs @ 50GB write-erase/day
	128GB	701.4 yrs @ 50GB write-erase/day



## 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	



## Mechanical Specifications

