

Solid State Drive (SATA-II 3Gb/s)

BH Series



The BH series extreme performance SATA-II SSD uses an advanced new controller and 64MB DRAM cache to deliver exceptionally fast sequential read and write speeds. With no moving parts, the BH is lightweight, uses far less power and is much more resistant to shock and vibration than a hard disk drive. The BH series SSD is also packed with all the latest performance and reliability features. ECC, wear leveling and bad bit management

algorithms improve reliability and extend the life of the drive. The BH is available in capacities up to 256GB with .

Physical Specifications

Form Factor	2.5"
Capacity*	32GB-256GB
Dimension	70*100*9.5mm
SATA Interface	Serial ATA-II 3Gbps
NAND Flash	MLC / SLC
Cache	64MB DRAM Cache
Power Supply	5.0Vcc +/- 5%
Package	Metal housing

Performance Specifications

	Seq. Read (MB/sec max)	Seq. Write (MB/sec max)
RMLC32V3	230MB/s	160MB/s
RMLC64V3	230MB/s	180MB/s
RMLC128V3	260MB/s	195MB/s
RMLC256V3	260MB/s	200MB/s
RSLC32V3	230MB/s	170MB/s
RSLC64V3	260MB/s	210MB/s
RSLC128V3	260MB/s	210MB/s

Environmental Specifications

Operating Shock	1500G
Operating Vibration	16G
Operating Temperature	0C to +70C
Operating Humidity	5 to 90%



Ordering Information

	SLC	MLC
32GB	RSLC32V3	RMLC32V3
64GB	RSLC64V3	RMLC64V3
128GB	RSLC128V3	RMLC128V3
256GB	N/A	RMLC256V3

Reliability Specifications

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

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	1st mate
P5	GND	2nd mate
P6	GND	
P7	5V Precharge	5V Power
P8	5V Precharge	5V Power
P9	5V Precharge	
P10	GND	
P11	Reserved	
P12	GND	1st 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	Differential Signal pair for Receive
S4	GND	
S5	TxN	Differential Signal pair for Transmit
S6	TxP	Differential Signal pair for Transmit
S7	GND	

