


## SHE1B



## GENERAL INFORMATION

TYPE	Half Slim		
INTERFACE	Serial ATA Revision 3.1		
DATA TRANSFER MODE	SATA 1.5Gbps, 3.0Gbps, 6.0Gbps		
CONNECTOR	15 + 7 pin Serial ATA		
OUTLINE DIMENSIONS	54 x 39 mm		
SERIES	SHE1B		
CONTROLLER TYPE 	TDK GBDriver GS1		
FLASH TYPE	SLC	pSLC	MLC
DENSITY RANGE	16 GB - 128 GB	16 GB - 256 GB	32 GB - 512 GB
DATA RETENTION	10 years @ life begin-10% 1 year @ life end		
ENDURANCE	100,000 P/E Cycles	20,000 P/E Cycles	3,000 P/E Cycles
ENTERPRISE WL	*Flash Block Level	*Flash Block Level	*Flash Block Level

## TEMPERATURE

OPERATING TEMPERATURE	Commercial: 0°C to +70°C Industrial: -40°C to +85°C
STORAGE TEMPERATURE	Commercial: -25°C to +85°C Industrial: -40°C to +85°C

## PERFORMANCE

Read (max.)	340 MByte/sec	400 MByte/sec	320 MByte/sec
Write (max.)	115 MByte/sec	165 MByte/sec	75 MByte/sec

## ROBUSTNESS

MTBF	≥ 2,000,000 hours
SHOCK	1500G, 0.5ms
VIBRATION	20G, 10-2000Hz
HUMIDITY	0 to 90 % RH (No condensation)

## ELECTRICAL DATA

VOLTAGE	5 V ± 10 %
POWER CONSUMPTION (*RT)	- Read: 250mA max. - Write: 270mA max. - Slumber: less than 100mA

## FEATURE LIST

FEATURES & TOOLS	<ul style="list-style-type: none"> <li>- In-House Designed Controller             <ul style="list-style-type: none"> <li>- DRAM-less Design</li> <li>- Power Fail Data Safety</li> <li>- Power Back-up Circuit</li> </ul> </li> <li>- Global static wear leveling             <ul style="list-style-type: none"> <li>- SMART</li> <li>- NCQ, TRIM</li> </ul> </li> <li>- AES 128/256bit encryption (on request)</li> </ul>			
PART NUMBER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SHE1BxxxxTXDxB00SSA0</td> <td style="width: 33%;">SHE1BxxxxTKDxB00SSA0</td> <td style="width: 33%;">SHE1BxxxxTFDxB00SSA0</td> </tr> </table>	SHE1BxxxxTXDxB00SSA0	SHE1BxxxxTKDxB00SSA0	SHE1BxxxxTFDxB00SSA0
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