

M.2

SNE1B



GENERAL INFORMATION

TYPE	M.2 (2242 / 2280)		
INTERFACE	Serial ATA Revision 3.1		
DATA TRANSFER MODE	SATA 1.5Gbps, 3.0Gbps, 6.0Gbps		
CONNECTOR	75 pin, Edge B & M key		
OUTLINE DIMENSIONS	22 x 42 mm / 80mm		
SERIES	SNE1B		
CONTROLLER TYPE	TDK GBDriver GS1		
FLASH TYPE	SLC	pSLC	MLC
DENSITY RANGE	2242 : 16 GB - 64 GB 2280 : 16GB - 128GB	2242 : 16 GB - 128 GB 2280 : 16 GB - 256 GB	2242 : 32 GB - 256 GB 2280 : 32 GB - 512 GB
DATA RETENTION	10 years @ life begin-10% 1 year @ life end		
ENDURANCE ENTERPRISE WL	100,000 P/E Cycles *Flash Block Level	20,000 P/E Cycles *Flash Block Level	3,000 P/E Cycles *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	345 MByte/sec	295 MByte/sec
Write (max.)	105 MByte/sec	145 MByte/sec	75 MByte/sec

ROBUSTNESS

MTBF	≥ 2,500,000 hours
SHOCK	1500G,0.5ms
VIBRATION	20G,10-2000Hz
HUMIDITY	0 to 90 % RH (No condensation)

ELECTRICAL DATA

VOLTAGE	3.3 V ± 5 %
POWER CONSUMPTION (*RT)	- Read: 385mA max. - Write: 370mA max. - Slumber: less than 100mA

FEATURE LIST

FEATURES & TOOLS	<ul style="list-style-type: none"> - In-House Designed Controller <ul style="list-style-type: none"> - DRAM-less Design - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling <ul style="list-style-type: none"> - SMART - NCQ, TRIM - AES 128/256bit encryption (on request)
PART NUMBER	SNE1BxxxxTXDxBx0SSA0 SNE1BxxxxTKDxBx0SSA0 SNE1BxxxxTFDxBx0SSA0