

## M.2

### SNE1B:2242



### SNE1B:2280



#### GENERAL INFORMATION

TYPE	M.2 2242		M.2 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		22 x 80 mm	
SERIES	SNE1B			
CONTROLLER TYPE	 TDK GBDriver GS1			
FLASH TYPE	SLC	pSLC/MLC	SLC	pSLC/MLC
DENSITY RANGE	16 GB - 64 GB	pSLC: 16 GB - 128 GB MLC: 32 GB - 256 GB	16 GB - 128 GB	pSLC: 16 GB - 256 GB MLC: 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	pSLC: 20,000P/ECycles MLC: 3,000P/ECycles *Flash Block Level	100,000 P/E Cycles *Flash Block Level	pSLC: 20,000P/ECycles MLC: 3,000P/ECycles *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	pSLC: 345 MByte/sec MLC: 295 MByte/sec	340 MByte/sec	pSLC: 345 MByte/sec MLC: 295 MByte/sec
Write (max.)	105 MByte/sec	pSLC: 145 MByte/sec MLC: 75 MByte/sec	105 MByte/sec	pSLC: 145 MByte/sec MLC: 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	<ul style="list-style-type: none"> <li>- Read: 385mA max.</li> <li>- Write: 370mA max.</li> <li>- Slumber: less than 100mA</li> </ul>

#### FEATURE LIST

FEATURES & TOOLS	<ul style="list-style-type: none"> <li>- In-House Designed Controller (HW/FW)               <ul style="list-style-type: none"> <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</li> </ul>			
PART NUMBER	SNE1BxxxxTXDxB00SAA0	SNE1BxxxxTxDb00SAA0	SNE1BxxxxTXDxBA0SAA0	SNE1BxxxxTXDxBA0SAA0