M.2

	SNE1B:2242		SNE1B:2280	
GENERAL INFORMATION				
TYPE	M.2 2242		M.2 2280	
INTERFACE DATA TRANSFER MODE	Serial ATA Revision 3.1 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	- Read: 385mA max. - Write: 370mA max. - Slumber: less than 100mA			
FEATURE LIST				
FEATURES & TOOLS	- In-House Designed Controller (HW/FW) - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling - SMART - NCQ, TRIM - AES 128/256bit encryption			
PART NUMBER	SNE1BxxxxTXDxB00SAA0	SNE1BxxxxTxDxB00SAA0	SNE1BxxxxTXDxBA0SAA0	SNE1BxxxxTXDxBA0SAA0