

# M.2

## SNT2A



### GENERAL INFORMATION

TYPE	M.2 (2242 / 2280)			
INTERFACE	Serial ATA Revision 3.2			
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	SNT2A			
CONTROLLER TYPE	TDK GBDriver GS2			
FLASH TYPE	3D - SLC mode		3D - TLC mode	
	3D - Gen3	3D - Gen4	3D - Gen3	3D - Gen4
DENSITY RANGE	2242 : 16 GB - 128 GB 2280 : 16 GB - 256 GB	2242 : 32 GB - 256 GB 2280 : 32 GB - 512 GB	2242 : 50 GB - 400 GB 2280 : 50 GB - 800 GB	2242 : 100 GB - 800 GB 2280 : 100 GB - 1600 GB
DATA RETENTION	10 years @ life begin 1 year @ life end			
ENDURANCE	30,000 P/E Cycles		3,000 P/E Cycles	
ENTERPRISE WL	*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.)	345 MByte/sec
Write (max.)	295 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: 1040 mW max. - Write: 1270 mW max. - Slumber: less than 60mA

### FEATURE LIST

FEATURES & TOOLS	<ul style="list-style-type: none"> <li>- In-House Designed Controller (HW/FW)               <ul style="list-style-type: none"> <li>- SLC Cache, LDPC-ECC, RAID</li> <li>- Temperature monitoring function</li> </ul> </li> <li>- Write-protected area setting tool (on request)               <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 (life monitor)</li> <li>- NCQ, TRIM</li> </ul> </li> <li>- AES 256 bit encryption (on request)</li> </ul>				
PART NUMBER	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">SNT2AxxxxKHxxAx0ESA0</td> <td style="width: 25%;">SNT2AxxxxKKxxAx0ESA0</td> <td style="width: 25%;">SNT2AxxxxKGxxAx0ESA0</td> <td style="width: 25%;">SNT2AxxxxKJxxAx0ESA0</td> </tr> </table>	SNT2AxxxxKHxxAx0ESA0	SNT2AxxxxKKxxAx0ESA0	SNT2AxxxxKGxxAx0ESA0	SNT2AxxxxKJxxAx0ESA0
SNT2AxxxxKHxxAx0ESA0	SNT2AxxxxKKxxAx0ESA0	SNT2AxxxxKGxxAx0ESA0	SNT2AxxxxKJxxAx0ESA0		

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