

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"> - Read: 385mA max. - Write: 370mA max. - Slumber: less than 100mA |

FEATURE LIST

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