

2.5" SATA SSD

SDE1B:9.5mm



SDE1B:7mm



GENERAL INFORMATION

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|----------------------------|--|--|--|--|
| TYPE | 2.5 inch SATA SSD (9mm) | | 2.5 inch SATA SSD (7mm) | |
| INTERFACE | Serial ATA Revision 3.1 | | | |
| DATA TRANSFER MODE | SATA 1.5Gbps, 3.0Gbps, 6.0Gbps | | | |
| CONNECTOR | 15 + 7 pin Serial ATA | | | |
| OUTLINE DIMENSIONS | 100.0 x 69.84 x 9.5 mm | | 100.0 x 69.85 x 7.0 mm | |
| SERIES | SDE1B | | | |
| CONTROLLER TYPE |  TDK GBDriver GS1 | | | |
| FLASH TYPE | SLC | pSLC/MLC | SLC | pSLC/MLC |
| DENSITY RANGE | 16 GB - 128 GB | pSLC:16GB-256GB MLC:32GB-512GB | 16 GB - 128 GB | pSLC:16GB-256GB MLC:32GB-512GB |
| 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.) | 420 MByte/sec | pSLC:430MByte/sec MLC:365MByte/sec | 420 MByte/sec | pSLC:430MByte/sec MLC:365MByte/sec |
| Write (max.) | 305 MByte/sec | pSLC:325MByte/sec MLC:235MByte/sec | 305 MByte/sec | pSLC:325MByte/sec MLC:235MByte/sec |

ROBUSTNESS

| | |
|-----------|--------------------------------|
| MTBF | ≥ 2,000,000 hours |
| SHOCK | 1,000G,1.0ms |
| VIBRATION | 20G,10-2000Hz |
| HUMIDITY | 0 to 90 % RH (No condensation) |

ELECTRICAL DATA

| | |
|-------------------|---|
| VOLTAGE | 5 V ± 10 % |
| POWER CONSUMPTION | <ul style="list-style-type: none"> - Read: 320mA max. - Write: 600mA 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 | SDE1BxxxxTXXxB00ESA0 | SDE1BxxxxTXXxB00ESA0 | SDE1BxxxxTXXxBA0ESA0 | SDE1BxxxxTXXxBA0ESA0 |