

480 Gbyte, M.2 SATA Solid State Drive, 6Gb/sec Interface Specification

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This document provides the specification for the 480 Gbyte, M.2 SATA Solid State Drive (SSD), 6Gb/sec SATA-3 Interface.

Drive Installation

For information on how to install a storage drive, refer to your system or drive enclosure documentation. Refer to product documentation at <https://docs.oracle.com>.

Drive Specification

TABLE 1 Power Requirements

| Condition | +3.3 VDC (+/-5%) |
|----------------------------|------------------|
| Average active power read | 1.9 W |
| Average active power write | 2.9 W |
| Idle power | 0.9 W |
| Maximum power | 3.4 W |

TABLE 2 Physical Characteristics

| Height | Width | Depth | Weight |
|-----------|--------------------|--------------------|-------------------|
| 0.094 in. | 0.866 +/-0.006 in. | 3.150 +/-0.006 in. | 0.317 +/-0.035 oz |
| 2.38 mm | 22.0 +/-0.15 mm | 80.0 +/-0.15 mm | 0.009 +/-0.001 kg |

TABLE 3 Usage Information

| Usage | Description |
|----------------------------------|--|
| Useful life | 5 years, or 945 TB written per JESD218 standard |
| Operating temperature (Case) | 0 to 70 degrees Celsius |
| Maximum temperature (SMART trip) | 70 degrees Celsius (maximum sustained temperature) |
| Other environmental factors | Conforms to IEC standards |

TABLE 4 Drive Capacity and Performance

| Attribute | Value |
|----------------------------------|---|
| Capacity, formatted | 480 GB |
| Random read (4 KB, QD 32) | 90,000 IOPS |
| Random write (4 KB, QD 32) | 19,000 IOPS |
| Sequential read (128 KB, QD 32) | 560 MB/s |
| Sequential write (128 KB, QD 32) | 510 MB/s |
| Interface data transfer rate | 6 Gbps/3 Gbps/1.5 Gbps (auto negotiation) |
| Power On to Ready (no rebuild) | < 3 sec |
| Power On to Ready (full rebuild) | 7.8 sec |

TABLE 5 Solid State Drive Characteristics

| Attribute | Value |
|-------------|---------|
| Device Name | 7361255 |

| Attribute | Value |
|--------------------------------|------------------------------------|
| Manufacturing Name | SSDSCCKB480G8 |
| Form Factor | M.2 (22x80) small form factor card |
| NAND Geometry | 3D NAND TLC 64-tier |
| Number of NAND Channels | 6 |
| NAND Transfer Rate per Channel | ONFI I/O Interface 4.0 266 MT/s |
| Over Provisioning | 11% |
| Page Size | 18,592 bytes |
| Erase Block Size | 32 Mbytes |

Product Documentation Library

Documentation for this product is available in the storage section of the Oracle Help Center, located at <http://docs.oracle.com/en/storage/>.

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