

1. Features

- Capacity¹: 2TB, 4TB, 8TB
- Form Factor: 2.5-inch, 9.5mm/15mm z-height
- Connector: U.2 (SFF-8639) Standard
- PCIe Gen2 5Gbps Interface, up to x4 lanes
- Enterprise SSD Form Factor Version 1.0a
- NVMe specification revision 1.1a compliant
- Temperature⁶
 - Operating (commercial): -40°C to +85°C
 - Non-Operating: -55°C to 95°C
 - Temperature monitoring and logging
 - Thermal throttling support
- Full end-to-end data protection
- NVMe command sets supported
- Supported sector size : 512 Bytes
- Surprise Insertion / Surprise Removal (SISR) and Hot-Plug capable
- Self-monitoring, analysis, and reporting technology (SMART) attribute supported
- Certifications and Declarations
 - CE, FCC
- Performance^{2, 3}
 - Sequential 128KB Read: Up to 1,200 MB/s
 - Sequential 128KB Write: Up to 1,000 MB/s
 - Random 4KB Read: Up to 100K IOPS
 - Random 4KB Write: Up to 90K IOPS
 - Read/Write Latency: 40 us (TYP)

- Reliability
 - MTBF: 1.5 million hours⁴
 - Static and dynamic wear leveling
 - Field-upgradable firmware
 - Uncorrectable bit error rate (UBER): <1 sector per 10¹⁵ bits read
- Endurance Rating & Warranty⁵: 0.5 ~ 2.0 PBW for 5 years
- Secure firmware update with digitally signed firmware image
- Mechanical / Electrical
 - PCIe-compliant, x4 lane combo connector
 - 2.5" form factor
 - 12V power (±8%)
 - Weight: 165g (MAX)
 - Shock: 1,000 G/0.5msec
 - Vibration ⁷
 - Operating: 16.3 G_{RMS} (10-2,000 Hz)

Notes:

- 1. User capacity: 1TB = 1,000,000,000,000 bytes.
- 2. Typical I/O performance numbers as measured fresh-out-ofthe-box (FOB) using lometer with a queue depth of 32 and write cache enabled.
- 3. 4KB transfers used for READ/WRITE latency values.
- The product achieves a mean time between failure (MTBF) based on population statistics not relevant to individual units.
- 5. Based on JESD218 standard with JESD219 workload
- 6. Operating temperature is the drive case temperature as measured by the SMART temperature attribute.
- 7. Based on MIL-STD-810F PART 514.5: 2003

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