

## 1. Features

- Capacity<sup>1</sup> : 1TB (Unformatted)
- Form Factor: M.2 Type 22110-D5-M
- PCIe Gen2 5Gbps Interface, up to x4 lanes
- NVMe specification revision 1.1a compliant
- Temperature<sup>6</sup>
  - Operating (commercial) : -45°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
- Self-monitoring, analysis, and reporting technology (SMART) attribute supported
- Certifications and Declarations
  - CE, FCC
- Performance<sup>2, 3</sup>
  - Sequential 128KB Read: Up to 1,2000 MB/s
  - Sequential 128KB Write: Up to 1,000 MB/s
  - Random 4KB Read: Up to 80K IOPS
  - Random 4KB Write: Up to 70K IOPS
  - Read/Write Latency: 40 us (TYP)
- Reliability
  - MTBF: 1.5 million hours<sup>4</sup>
  - Static and dynamic wear leveling
  - Field-upgradable firmware
  - Uncorrectable bit error rate (UBER): <1 sector per 10<sup>15</sup> bits read
- Endurance<sup>5</sup>: 2,500TBW (1TB)
- Warranty : 5 years
- Secure firmware update with digitally signed firmware image
- Mechanical / Electrical
  - PCIe-compliant, x4 lane combo connector
  - M.2 Form Factor : 22mm x 110mm x 3.8mm
  - 3.3V power (±5%)
  - Weight: TBD
  - Shock : 50 G Trapezoidal, 170 in/s
  - Vibration
    - Operating : 2.17 G<sub>RMS</sub> (5–700Hz)
    - Non-operating : 3.1 G<sub>RMS</sub> (5–800Hz)

### Notes:

1. User capacity: 1GB = 1,000,000,000 bytes.
2. Typical I/O performance numbers as measured fresh-out-of-the-box (FOB) using Iometer with a queue depth of 32 and write cache enabled.
3. 4KB transfers used for READ/WRITE latency values.
4. 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.