

powersafe™

swissbit®

Preliminary
Product Fact Sheet

**Datacenter
U.2 PCIe SSD**

D2200 Series
PCIe 5.0, 3D eTLC

Commercial Temperature Grade

Date: April 24, 2024
Revision: 0.90

Product Summary

- **Capacities:** 7.68TBytes, 15.4 TBytes
- **Form Factor:** PCI Express® U.2 (15mm)
- **Compliance:**
 - PCI Express (PCIe) Specification Revision 5.0
 - PCI Express (PCIe) Specification Revision 4.0
 - NVMe Express Specification 2.0b
- **Interface:** Gen5 x 4 Lanes / Gen4 x 4 Lanes
- **Command Sets:** Supports NVMe 1.0b
- **Target Performance:**
 - Sequential Read up to 14,000 MB/s, Random Read 4K up to 2,600k IOPS
 - Sequential Write up to 10,000 MB/s, Random Write 4K up to 510k IOPS
- **Operating Temperature Range:**
 - Case 0°C to 77°C
- **Storage Temperature Range:** -40 °C to 85 °C
- **Data Retention¹:** 3 month @ 40°C (Life End)
- **High-Performance Processor with Integrated, Parallel Flash Interface Engines:**
 - Triple-Level Cell (TLC) 3D NAND Flash
- **High Reliability:**
 - Mean Time Between Failure (MTBF): > 2,000,000 hours
 - Data Reliability UBER: 1 Sector per 10¹⁷ Read
- **Endurance DWPD (5years EP WL):** 1

Product Features

- powersafe™ Functionality
- Full Data Path Protection
- S.M.A.R.T
- Flexible Power Management
- Hot Pluggable
- TRIM
- Multi-namespace support up to 128
- AES 256 Data Encryption & Crypto Erase
- EU164/NGUID
- Support NVMe-MI 1.2b, support MCTP over SMBus
- Firmware Upgrade without Reset
- Timestamp
- Telemetry
- Weighted Round Robin (WRR)
- Persistent Event Log
- Secure Download
- Secure Boot

Why Swissbit?

Swissbit is focused on the design, development, manufacture, and support of leading edge memory and storage solutions for the worldwide OEM/ODM marketplace. As a global supplier, Swissbit recognizes and addresses the higher level of application requirements of today's industrial, Netcom, and automotive customers by providing best-in-class products and services, with uncompromised attention to driving overall value and quality.

¹ NAND Flash suppliers refer to JEDEC JESD47 and JESD22 for Data Retention testing. Based on the information provided by the NAND Flash suppliers, Data Retention is targeted as shown