

Secure Storage SSD for PCs, addressing FIPS requirements with PBA and Advanced Data Protection features.

Key Security Features

- **Hardware AES-256 Full Drive Encryption:** NAS and CISA validated encryption methodology.
- **Pre-boot Authentication:** NSA and NIST validated PBA, providing a separate, secure authentication prior to initiating boot.
- **Hidden Partitions:** Ability to create eight separate locked partitions where data is locked and unreadable at the sector level, even when the device is in use. User accesses with step-up authentication. Protects against wiping and cloning.
- **Verified Data Erasure:** Crypto and block erasure with the patented capability to verify at the block level that every block has been permanently erased.
- **Enterprise Management:** Cloud or on-premises console or command line interface (CLI) provides efficient administration at scale.

Technical Specifications

- **Capacity:**
 - 256GB up to 2048GB
- **Form Factor:**
 - E12 M.2 2280-D2-M
- **PCIe Interface:**
 - PCIe Gen3 x 4
- **Compliance:**
 - NVMe 1.3
 - PCI Express Base 3.1
- **Flash Interface:**
 - Transfer rate up to 667 MBps
 - Up to 4pcs of BGA132 flash
- **Performance:**
 - Read: up to 3400 MB/s
 - Write: up to 3100 MB/s
- **Reliability:**
 - Mean Time Between Failure (MTBF) 1.8 million hours
 - Uncorrectable Bit Error Rate (UBER) < 1 sector per 10¹⁶ bits read
- **Advanced Flash Management:**
 - Advanced Wear Leveling
 - Bad Block Management
 - TRIM
 - SMART
 - Over-Provision
 - Firmware Update
- **Power Management:**
 - Support APST
 - Support ASPM
 - Support L1.2
- **Power Consumption:**
 - Idle < 350mW
 - L1.2 < 5 mW
- **Temperature Range:**
 - Operation: 0°C ~ 70°C
 - Storage: -40°C ~ 85°C
 - Operation airflow: 800 LFM at 35C ambient
- RoHS compliant
- **Features Support List:**
 - End to end data path protection
 - Thermal throttling
 - SmartECCTM
 - SmartRefreshTM
 - TCG OPAL
 - FIPS 140-2 lv2 certified: certificate number #3758
 - Cigent Feature with ECPM13.1/ECPM15.0