

Use Citadel SSDs to Secure Your Data at Rest (DAR)

Protect against unauthorized access to laptops, desktops, and servers

- **Easily Meet Federal Cybersecurity Requirements**
- **Commercial Pricing Enables Wide Deployment**
- **Operating System Agnostic**

Citadel FIPS certified self-encrypting SSDs are the only SSDs to integrate pre-tested multifactor authentication and pre-boot authentication (PBA) in low cost, easily deployed and commonly used laptops, desktops, workstations, and tactical servers.

Powered by CipherDrive™, the built in PBA unlocks access to the encrypted operating system or virtual machine on the Citadel SSD along with the data stored there. This secured data is encrypted by NSA-approved Advanced Encryption Standard (AES) 256-bit encryption at the hardware level. Once booted, Citadel allows no-overhead access to encrypted data at the full performance of the system.

Citadel SSD Security Features

- Encryption - AES-256, FIPS PUB 197 specification
- Authorization Acquisition (AA) under Common Criteria cPP
- Compliant under collaborative Protection Profiles (cPP)
- Pre-Boot Authentication (PBA) supports booting and chain loading VMs / SecureView and other hypervisors
- PBA Admin and Management capabilities
- 2-Factor / Multi-factor Authentication support
- Support for CAC/PIV/CIV and SIPRNET cards and tokens
- Cryptographic Erase (CE)
- User Management
- TPM 2.0 support
- Key Management – Custom AK and DEK

DIGISTOR Citadel Secure Storage SSDs

Technical Specifications

Form Factor	M.2 2280 & 2.5" 7mm	MTBF	More than 1,600,000 hours	Security Service	CNSA Suite Standards / Specification
Interface	SATA III PCIe Gen 3x4 NVMe	Advanced Flash Management	Static & Dynamic Wear Leveling Bad Block Management TRIM SMART	Confidentiality (Encryption)	AES-256 / FIPS PUB.197
Flash Type	BiCS4	Encryption	TCG Opal SSC hardware level AES 256-bit encryption	Authentication (Digital Signature)	Elliptic Curve Digital Signature Algorithm (ECDSA) over the curve P-384 with SHA-384 / FIPS PUB 186-4 RSA 3072 (Minimum) / FIPS PUB 186-4
Performance	SATA: Read: up to 550MB/s Write: up to 530MB/s NVMe: Read: up to 3,400MB/s Write: up to 3,100MB/s	Temperature Range	Operation: 0°C ~ 70°C Storage: -40°C ~ 85°C	Integrity (Hashing)	SHA-384 / FIPS PUB 180-4
Power Consumption	Active mode: ≤2,300mW Idle mode: ≤110mW	Compliance	RoHS Compliant TAA Compliant		

Citadel SSDs are self-encrypting drives which secure all critical data using strong AES 256-bit encryption, with the encryption/decryption performed on the SSD hardware itself, independent from the host, which maintains the highest host performance by not impacting CPU load. Locked BOMs available.

All Available Configurations are TAA-Compliant and FIPS 140-2 L2 Certified

M.2 2880 SSD SATA

512GB	DIG-M2S45126
1TB	DIG-M2S410006
2TB	DIG-M2S420006

2.5" SATA III SSD

512GB	DIG-SSD2S45126
1TB	DIG-SSD2S410006
2TB	DIG-SSD2S420006

M.2 2280 PCIe (3x4) NVMe SSD

512GB	DIG-M2N2S45126
1TB	DIG-M2N2S410006
2TB	DIG-M2N2S420006

Software Specifications

CipherDrive Technology is FIPS and Common Criteria Certified

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