DIGISTOR®

SECURE DATA STORAGE

Use Citadel K Series 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**
- **Supports Windows, Linux, hypervisors like SecureView, and Forcepoint**

Citadel K Series 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 K Series 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 K Series 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

NIST Certification #3926

DIGISTOR Citadel K Series Secure Storage SSDs

Technical Specifications

Form Factors & Interfaces	▪ M.2 2280 PCIe Gen 3x4 NVMe 1.3 ▪ M.2 2280 SATA 6 Gb/s 2.5-inch 7mm SATA 6 Gb/s	Advanced Flash Management	Static & Dynamic Wear Leveling Bad Block Management TRIM S.M.A.R.T.	Authentication Methods	CAC, USB, or YubiKey
Flash Type	BiCS4	MTBF	More than 1,600,000 hours	Confidentiality (Encryption)	AES-256 / FIPS PUB 197
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	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 2048-PSS with SHA-256 method / FIPS PUB 186-4
Power Consumption	Active mode: ≤2,300mW Idle mode: ≤110mW	Compliance	RoHS Compliant TAA Compliant	Integrity (Hashing)	SHA-384 / FIPS PUB 180-4
Temperature Range	Operation: 0°C ~ 70°C Storage: -40°C ~ 85°C				

Citadel K Series 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 NIAP-listed, TAA-Compliant and FIPS 140-2 L2 Certified

M.2 2880 SSD SATA

	Citadel K-SD (Single Drive)	Citadel K-MD (Multi-Drive)
512GB	DIG-M251232-K04	DIG-M2S25126
1TB	DIG-M2100032-K04	DIG-M2S210006
2TB	DIG-M2200032-K04	DIG-M2S220006

M.2 2280 PCIe (3x4) NVMe SSD

	Citadel K-SD (Single Drive)	Citadel K-MD (Multi-Drive)
512GB	DIG-M2N251232-K04	DIG-M2N2S25126
1TB	DIG-M2N2100032-K04	DIG-M2N2S210006
2TB	DIG-M2N2200032-K04	DIG-M2N2S220006

M.2 2880 SSD SATA

	Citadel K-SD (Single Drive)	Citadel K-MD (Multi-Drive)
512GB	DIG-SSD251232-K04	DIG-SSD251232-K02
1TB	DIG-SSD2100032-K04	DIG-SSD2100032-K02
2TB	DIG-SSD2200032-K04	DIG-SSD2200032-K02

CipherDrive Technology is FIPS and Common Criteria Certified

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