



CX-2500SSD

Encrypted Data Transfer in your Pocket Up to 7.6TB of SSD Storage

With its compact, rugged design and FIPS 140-2 Certification, the CX-2500SSD makes it simple to secure and encrypt all your content including high resolution videos, photos, and mission critical files. Your data can only be accessed with an AES 256-bit encrypted Data Encryption Key (DEK) for worry-free transportation and storage of the drive.

Features

- USB 3.0 Connectivity. Includes long; 32" enterprise USB 3.0 cable
- FIPS 140-2 Certified, AES-256 encryption (may be used for classified data)
- Up to 7.6TB of SSD
- Bus-powered and bootable encryption enables secure program and data access via external drive
- AES 256 bit Advanced Encryption Algorithm
- Zero time encryption and decrypting – no loss in drive performance
- Heat sink rugged aluminum enclosure for enhanced cooling and protection
- Shock absorbers protect drive and suppress noise
- 2 Year warranty

Experience the Ciphertex CX-2500SSD Advantage

The CX-2500SSD is the go-to FIPS 140-2 certified, AES 256 bit encrypted mobile security drive for forensics, healthcare, media and entertainment and government and military agencies. The easy to use Data Encryption Keys (DEK) make it possible to encrypt and secure your data while in transit or away from your device.



- Keeps data encrypted and secure, preventing unauthorized access
- Unique Data Encryption Keys (DEK) Unlock the drive – No need to remember a password
- Authentication: 2 Data Encryption Keys (DEK); Additional keys available



CX-2500SSD

STORAGE	Up to 7.6TB Enterprise Class SSD
SPEED	Up to 540MB/s via SSD
POWER CONSUMPTION	Bus-powered
	Max continuous power: 180W
TEMPERATURE	0 - 40°C (32°F ~ 104°F)
CONNECTIVITY	USB 3.0

SIZE	Height: 0.7" (19mm)
	Width: 2.3" (80mm)
	Depth: 5.1" (130mm)
	Weight: 0.5lbs
COMPLIANCE	FCC, CE, TAAC

All product specifications and data are subject to change without notice to improve reliability, function, design or otherwise.

Additional Drive Features

- Three performance/endurance levels
ECO
PRO
MAX
- TCG Enterprise compliant self-encrypting drive (SED)
- SATA 6 Gb/s interface
- 512-byte sector size support
- Native command queuing support with 32-command slot support
- Performance (steady state)¹
Sequential 128KB read: Up to 540 MB/s
Sequential 128KB write: Up to 520 MB/s
Random 4KB read: Up to 95,000 IOPS
Random 4KB write: Up to 75,000 IOPS
- Quality of Service²
Read/Write (99.9%): 200µs/300µs (<2TB)
Read/Write (99.999%): 1000µs/700µs (<2TB)
- Endurance⁴: Total bytes written (TBW)
Up to 17600TB
- Reliability
MTTF: 3.0 million device hours³
Static and dynamic wear leveling
Uncorrectable bit error rate (UBER): <1 sector per 1017 bits read
End-to-end data protection
Enhanced power-loss data protection with data protection capacitor monitoring
- Power consumption: <6.0W (TYP, 5V only)
- Operating temperature
Commercial (0°C to 70°C)⁵

1. Performance varies by capacity and endurance.
2. 4KB transfers QD = 1 used for READ/WRITE latency values.
3. The product achieves a MTTF based on population statistics not relevant to individual units.
4. 1GB = 1 billion bytes.
5. As reported by SMART.

CX-2500SSD Available in two capacities

- SSD22E038.3 3.8TB SSD Drive
- SSD22E076.3 7.6TB SSD Drive

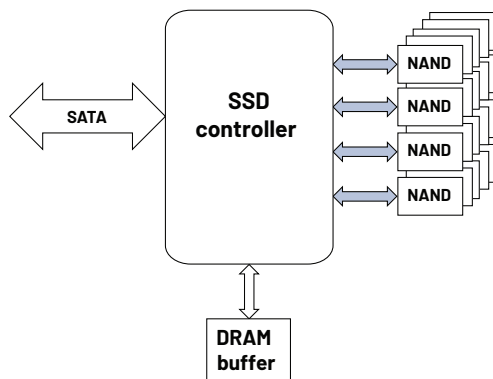


FCC CE COMPLIANCE - Designed/Assembled/Integrated/Tested in the USA using domestic and/or foreign components. Made in the U.S.A.



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Functional Block Diagram



- A - 2 Encryption Keys
- B - CX-2500SSD



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