



# CX-2500E-HDD

## NIST/FIPS 140-2 (Level 3) Certified Encrypted Data Transfer in Your Pocket 2TB of HDD Storage

With its compact, rugged design with NIST/FIPS 140-2 (Level 3) Certified Cryptographic Modules, the CX-2500E-HDD 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 encryption with NIST and FIPS 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)
- 2TB of Encrypted HDD Storage
- 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-2500E-HDD Advantage

The CX-2500E-HDD is the go-to FIPS (Level 3) 140-2 Certified, AES 256-bit encrypted mobile security drive for forensics, healthcare, media and entertainment, and government/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-2500E-HDD

<b>STORAGE</b>	1TB Professional 7200RPM 2.5" HDD
	2TB Professional 5400RPM 2.5" HDD
<b>SPEED</b>	Up to 136MB/s via 7200RPM HDD
	Up to 100MB/s via 5400RPM HDD *Performance will vary depending on hardware and software components and configuration
<b>POWER CONSUMPTION</b>	Bus-powered
	Max continuous power: 180W

<b>TEMPERATURE</b>	0 - 40°C (32°F ~ 104°F)
<b>CONNECTIVITY</b>	USB 3.0
<b>SIZE</b>	Height: 0.7" (19mm)
	Width: 2.3" (80mm)
	Depth: 5.1" (130mm)
	Weight: 0.5lbs
<b>COMPLIANCE</b>	FCC, CE, TAAC

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

## Encryption Features

- Key tokens for secure authorization
- Hardware encryption imbedded in chip
- No software installation required for encryption or authentication
- FIPS 140-2 (Level 3) Certified Cryptographic Engine
- NIST Certified Cryptographic Engine
- Compatible with Windows and Macintosh environments

## 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)<sup>1</sup>  
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 Service<sup>2</sup>  
Read/Write (99.9%): 200µs/300µs (<2TB)  
Read/Write (99.999%): 1000µs/700µs (<2TB)
- Endurance<sup>4</sup>: Total bytes written (TBW)  
Up to 17600TB
- Reliability  
MTTF: 3.0 million device hours<sup>3</sup>  
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)<sup>5</sup>

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.



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

