



UP TO
430
TB NVMe

MISSION-CRITICAL DATA PROTECTION SYSTEMS



Ciphertex-Protect®
Encryption Keys



SecureNAS® CX-140KNVMe

Information in this data sheet applies to models:

SNCX-140KNVME-4C-32G-105TB SNCX-140KNVME-4C-32G-210TB SNCX-140KNVME-4C-32G-420TB

Blazing-Fast NVMe Server for Accelerated Data Access and Critical Workloads (28TB - 420TB All-NVMe Storage)

This high-capacity, reliable enterprise NAS is powered by an AMD® EPYC® Series (ROME) processor. It offers support for up to fourteen hot-swappable NVMe SSDs and two internal 2.5" SSDs for the operating system. Featuring built-in Intel® AES-NI technology, the durable **SecureNAS® CX-140KNVMe** enables fast and secure data encryption and decryption for a variety of cryptographic applications, providing strong security and reducing latency. With two PCIe slots, it allows for the expansion of network interface cards, optimizing your enterprise IT infrastructure. Designed with security and scalability in mind, the **SecureNAS® CX-140KNVMe** offers cross-platform file sharing, comprehensive backup and disaster recovery, iSCSI & virtualization, and various other business applications, making it the ideal choice for a complete business-ready storage solution. The rugged design ensures military-grade durability, and for added security, it includes FIPS 140-2 (Level 3) certified encryption keys for locking and unlocking encrypted volumes.

Features

- AMD® EPYC® Series (ROME) processor with 16-core (can expand to 64 cores)
- Complimentary dual 10G base-T LAN for highly-efficient virtualization and intensive data transmission
- Upgradable 100GbE/200GbE expansion slots
- ZFS RAIDZ configurable: Mirror, Stripe Set, RAIDZ1, RAIDZ2, RAIDZ3
- Smart cooling fan
- Supports DDR4 RDIMM (3200MHz), LRDIMM (2666MHz), NV DIMM (2666MHz)
- Centralized storage, backup, sharing, and Business Continuity and Disaster Recovery
- Pre-installed Operating System software included (no licensing fee)
- Centralized storage, backup, sharing, and disaster recovery support for varied applications
- Each key serial number syncs with the SecureNAS® serial number and customizable password
- Optional 5-year warranty (3 years included)
- **Maximum Data Security**
 - FIPS 140-2 Level 3 Certified
 - NIST 800-88 Compliance
 - AES-256 Encryption
 - HIPAA Compliance
 - Hardware Encryption Key
 - Key Lifecycle Management
 - Multi-Factor Authentication
 - Instant Secure Erase (ISE) Enabled
 - Rsync Supported
 - USB Blocker for Enhanced Security

CiphertexOS (Operating System)

The CiphertexOS featuring ZFS can maintain the utmost data integrity. Not only does our OS inherit the amazing native features of ZFS, it ensures persistent, reliable storage management, protection against data corruption, seamless capacity expansion, several data integrity mechanisms, as well as pool and disk encryption protection.

ORGANIZATIONS WORLDWIDE TRUST THEIR DATA TO CIPHERTEX®



SPECIFICATIONS

PERFORMANCE CPU	AMD® EPYC 7002 SERIES 2.8 (GHz) Base Freq. 3.35 (GHz) Max. Boost Freq.
CORES/CACHE	24 Cores (upgradable to 64 Cores), 48 Threads / 256MB L3 Cache Socket
MEMORY CAPACITY	Eight Channel DDR4 memory technology Supports DDR4 RDIMM, LRDIMM
DIMM SIZES	RDIMM: 64GB, 32GB, 16GB, 8GB LRDIMM: 128GB, 64GB, 32GB
MEMORY VOLTAGE	1.2V
ERROR DETECTION	Corrects single-bit errors Detects double-bit errors (using ECC memory)
SATA CONTROLLER	4 x SATA3 6.0 Gb/s (from mini SAS HD, Gen3)
SLIMLINE	Slimline x 7 (PCIe Gen4 x 8)

LAN CONTROLLERS	Dual RJ45 10G base-T by Intel® X550-AT2
GRAPHICS	Aspeed AST2500, VRAM DDR4 256 MB
LED INDICATORS	Status/Power, USB, LAN
PUSH BUTTONS	Power, Reset, Copy
TEMPERATURE	OP: 10C ~ 35C / NON-OP: -40C ~ 70C
SMART FAN	3 x 12cm (12V DC)
WEIGHT	26 lbs (w/o drives)
SIZE	Height: 11.75" (288.5 mm) Width: 12.50" (317.5 mm) Depth: 14.25" (362.0 mm)

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



- A** - Durable handle
- B** - Power Button
- C** - LED Indicators
- D** - LCD Display
- E** - ESC Button

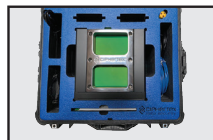
- F** - Enter/Arrow Buttons
- G** - Key Lock
- H** - One-Touch Copy
- I** - USB (Type-C Ports)
- J** - NVMe Drives (14)

- K** - PCIe1: Gen4 x 16 Link
- L** - PCIe6: Gen4 x 16 Link
- M** - Cooling Fan
- N** - VGA Port
- O** - 2 x RJ45 10G base-T

- P** - Optional 100G or 200G Ethernet Ports
- Q** - 1 x RJ45 Dedicated IPMI
- R** - 2 x USB 3.1 Gen1 Ports
- S** - Power Connector



All SecureNAS® systems feature a durable, reliable, recessed handle for ease of transport without taking up valuable real estate.



Custom Transport Cases are the optimal solution for migrating or transporting large amounts of data safely and efficiently. Military Environmental test lab certified.



All SecureNAS® systems include a protective lockable door and a FIPS 140-2 certified encryption key to further protect both your physical NAS and data.



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



(2) Ciphertex-Protect® Encryption

Keys are seamlessly integrated with CiphertexOS and offer superior authentication for your SecureNAS®. These encryption keys support FIPS 140-2 level 3 security standard. See quick-start guide for pairing instructions.