



UP TO  
**176**  
TB HDD

MISSION-CRITICAL DATA PROTECTION SYSTEMS



Ciphertex-Protect® Encryption Keys



# SecureNAS® CX-80KHD-X

Information in this data sheet applies to models:

SNCX80KHD-X-4C-32G-64TB    SNCX80KHD-X-4C-32G-80TB    SNCX80KHD-X-4C-32G-96TB    SNCX80KHD-X-4C-32G-128TB  
 SNCX80KHD-X-4C-32G-144TB    SNCX80KHD-X-4C-32G-160TB    SNCX80KHD-X-4C-32G-176TB

## Class-Leading Throughput and IOPS with Large Encrypted Tiered Storage Capacity in a Durable Package

This high-capacity, reliable enterprise NAS is powered by an Intel® Xeon® D processor. It offers support for up to eight hot-swappable 3.5" HDs and two internal 2.5" SSDs for the operating system. Featuring built-in Intel® AES-NI technology, the durable **SecureNAS® CX-80KHD-X** 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-80KHD-X** 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

- Intel® Xeon® D-1518 CPU with 4-core (can expand to 8 or 16 cores)
- Complimentary dual 10GbE fiber (optional copper) for virtualization and data transfer
- LCD display for real-time info and easy system control
- Smart cooling adjusts fan speed
- Supports four DDR4 memory modules for a maximum of 128GB RAM
- One built-in M.2 SATA slot for flexible storage, high-speed SSD caching
- Centralized management for networked devices
- 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

<b>PERFORMANCE CPU</b>	Intel® Xeon Processor D-1518 Socket FCBGA 1667 supported CPU TDP support 35W
<b>CORES/CACHE</b>	4 Cores (upgradable to 8 and 16 Cores), 8 Threads /6MB Cache
<b>MEMORY CAPACITY</b>	Up to 128GB; Unbuffered ECC/non-ECC UDIMM, DDR4-2133MHz, in 4 DIMM slots
<b>MEMORY TYPE</b>	2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
<b>DIMM SIZES</b>	4GB, 8GB, 16GB, 32GB
<b>MEMORY VOLTAGE</b>	1.2V
<b>ERROR DETECTION</b>	Corrects single-bit errors Detects double-bit errors (using ECC memory)
<b>M.2 EXPANSION</b>	M.2 Interface: 1 SATA/PCI-E 3.0 x4
<b>SAS2</b>	Broadcom 2116 SW controller for 16 SATA3 (6Gpbs) ports; SAS2 and SATA3

<b>IPMI</b>	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
<b>NETWORK CONTROLLERS</b>	Dual LAN with 10G SFP+ from D-1500 SoC; Dual LAN with 1GbE w/Intel® I210
<b>GRAPHICS</b>	Aspeed AST2400 BMC
<b>LED INDICATORS</b>	Status/Power, USB, LAN
<b>PUSH BUTTONS</b>	Power, Reset, Copy
<b>TEMPERATURE</b>	0 - 60°C (32°F ~ 140°F)
<b>SMART FAN</b>	1 x 12cm (12V DC)
<b>WEIGHT</b>	20.5 lbs (w/o drives)
<b>SIZE</b>	Height: 9.8" (248.92 mm) Width: 11.25" (285.75 mm) Depth: 9.75" (247.65 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** - HDD Drives (8)
- K** - PCIe Extension
- L** - PCIe Extension

- M** - Cooling Fan
- N** - DB15 VGAPort
- O** - 10GbE SFP+ Ports
- P** - Optional 10G Ethernet Ports (4)
- Q** - RJ-45 1GbE (2)

- R** - USB 3.0 (Type-A Ports)
  - S** - IPMI Port
  - T** - Power Connector
- \*Optional Thunderbolt 3 Ports



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.