

Quick Start Guide

SecureNAS® CX-80KHD-X, CX-80KSD-X and CX-120KHSD-X

Based on Linux ZFS





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Before you start

Thank you for purchasing a Ciphertex Data Security® SecureNAS®

Your SecureNAS[®] is FIPS 140-2 (Level 3) Certified with it's proprietary Ciphertex Protect[®] Encryption Key used for locking/unlocking encrypted volumes. Before setting up your new SecureNAS[®], please check the package contents to verify that you have received the items below. Also, make sure you read the safety instructions carefully in order to avoid harming yourself or damaging your SecureNAS[®].





Ciphertex SecureNAS® at a Glance



No.	Article Name	Description	No.	Article Name	Description
Α	Durable Handle	Unique portability feature	L	PCIe Extension	Available PCI Expansion Slot
В	Power Button	Turns on/off device	Μ	PCIe Extension	Available PCI Expansion Slot
С	LED Indicators	Monitor system status	Ν	Cooling Fan	Turns on/off device
D	LCD Display	Review SecureNAS settings	0	DB1 Port	Monitor system status
Е	ESC Button	Returns to previous screen	Р	10GbE SFP+Ports	Review SecureNAS settings
F	Enter/Arrow Buttons	Navigates LCD display	Q	10G Ethernet Ports (4)	Returns to previous screen
G	Key Lock	Locks/unlocks secure door	R	RJ-45 Gigabit LAN	Navigates LCD display
Н	Copy Button	Initiates One-Touch Copy	S	USB 3.0 (Type A Ports)	Locks/unlocks secure door
Ι	USB-C Gen2	Connect peripheral devices	Т	IPMI Port	Initiates One-Touch Copy
J	Drive Trays	Stores HDDs (8)	U	Power Connector	Connect peripheral devices
K	SSD Drive Trays	Only Model CX-120KHSD-X Stores SSDs (4)			data are subject to change rity, reliability, function, design

without notice to improve security, reliability, function, design or otherwise.



Ciphertex SecureNAS® Quick-Link (Optional)

- Easily connect your SecureNAS to any Windows, Mac, or Linux computer via a fast USB-3 connection
- Maintains all the same access as standard Ethernet without the hassles of setting up a formal network
- Perfect for AD-HOC connections in the field or at the office
- Supports up to 10 computers when using the optional USB-3 add-in boards and cables



Hardware Design Remove/Install Drives

1. Press the lower part of the drive trays to pop out the handle.



2. Pull the drive tray handles in the direction as indicated below to remove the respective drive tray(s).





Installing SecureNAS®

Starting/Shutting Down the SecureNAS®

- 1. Plug your Ciphertex SecureNAS[®] into AC power.
- 2. Connect to the network. Plug network cable into a network port (top right). Left for static IP, right for DHCP.
- **3.** Press the power button on the front of the unit to power it on and start the boot process.
- **4.** To shut down the unit, simply press the power button and the unit will begin the shutdown process.
- 5. If necessary, you can also press and hold the power button for at least 5 seconds to force the power off without going through the shutdown process.



NOTE: Holding down the power button should **NOT** be done for expedience. Only force the power off in instances where SecureNAS[®] is unresponsive to the normal shutdown process. commands should you force a power off.

Obtaining an IP Address

- 1. During boot, your SecureNAS[®] will automatically obtain network information from a DHCP server if you plugged into the connector on the right. If you do not have a DHCP server and you plugged into the connector on the left, your SecureNAS[®] will default to the IP address 192.168.1.200.
- 2. After SecureNAS[®] obtains an IP address, the address will be displayed on the LCD screen on the front of the unit.

Logging in to the SecureNAS®

- 1. On a computer, use a web browser to connect to your SecureNAS[®]. In the address bar of the web browser, type http://ip_address(type in the unit's ip address in place of "ip_address").
- You will be directed to the SecureNAS[®] login screen. Here, enter the default username and password of the built-in administrator account. For a new machine, the default username is "administrator" and the password is "password". Then press the LOGIN button.



3. Once you have logged in, you will see basic system information on the SecureNAS[®] dashboard.



Setting Up A Network

1. On the left-side of the screen, click on the Network menu item to expand the options.

2. Then select Adapter Settings under Network.

	PHELTEX® a security							Alerts Help	Accour
) Das	hboard	ď	Interfa	ces					¢
My .	Account	•	Sort By:	Name	▼ Sort Order:	Ascending •			
Net	work	-	Name	Status	IP Address	MAC Address	Speed	Duplex	MTU
	work		eno1	enabled	192.168.1.100	AC:1F:6B:73:8F:34	1000 mbps	Full	1500
A	dapter Settings		eno2	disabled	N/A	AC:1F:6B:73:8F:35	Disconnected	Unknown	N/A
			eno7	disabled	N/A	AC:1F:6B:73:95:A0	Disconnected	Unknown	N/A
В	onding		eno8	disabled	N/A	AC:1F:6B:73:95:A1	Disconnected	Unknown	N/A
R	outing								
Н	osts		Config	uration					
-> Ser	vices			Por		Disable			
				Status Boot Protoco					
Stor	rage	•		IP Address					
Stat	tus			Subnet	t 255 . 255	. 255 . 0			
			De	fault Gateway					
Sys	tem	•		MTU		bytes			
Adv	anced			Primary DNS	1 92 . 168	. 1 . 3			
ų –			Se	condary DNS	1 92 . 168	. 1 . 2			
				Tertiary DNS	s .				
				DNS Path	ciphertex.secu				

3. On the Adapter Settings page, select "eno1" from the Interfaces list. This will populate the Configuration information at the bottom of the page.

Interfa	ces					¢
Sort By:	Name	Sort Order:	Ascending •			
Name	Status	IP Address	MAC Address	Speed	Duplex	MTU
eno1	enabled	192.168.1.100	AC:1F:6B:73:8F:34	1000 mbps	Full	1500
eno2	enabled	N/A	AC:1F:6B:73:8F:35	Disconnected	Unknown	1500
eno7	disabled	N/A	AC:1F:6B:73:95:A0	Disconnected	Unknown	N/A
eno8	disabled	N/A	AC:1F:6B:73:95:A1	Disconnected	Unknown	N/A



4. After you have selected eno1 and the information is displayed in the Configuration area, click the Modify button.

Configuration	
Port	eno1
Status	Enable Disable Disable
Boot Protocol	◎ Static ● DHCP
IP Address	192 . 168 . 1 . 100
Subnet	255 . 255 . 255 . 0
Default Gateway	
MTU	1500 bytes
Primary DNS	192 . 168 . 1 . 3
Secondary DNS	192 . 168 . 1 . 2
Tertiary DNS	ч ч ж
DNS Path	ciphertex.securenas.com
	Modify

- 5. Fill out the configuration for eno1 for your network.
- 6. Click the Apply button when you have made the necessary configuration changes.

NOTE: Changes to network settings will require a system reboot.



Configuring Storage

Before taking advantage of the various features of SecureNAS, you need to set up at least one storage space. This section explains how to use the SecureNAS Management Console to configure and manage internal storage.

Storage Pools and Volumes

CIPHECTEX® data security								Alerts Hel		oun
Dashboard	ď	Physical Drives								
		Device	Model		Serial Number	Size	Usage Summary	Status	Blink	
My Account	•	/dev/sda	ST4000N	M0115-1YZ	ZC15B1E7	3.64 T	3 *Not In Use*	~		
Network		/dev/sdb	ST4000N	M0115-1YZ	ZC15BFK3	3.64 TI	3 *Not In Use*	~		
		/dev/sdc	ST4000N	M0115-1YZ	ZC15B1E3	3.64 TI	3 Primary: pool4	~		
Services	4	/dev/sdd	ST4000N	M0115-1YZ	ZC15BKEW	3.64 TI	B Primary: pool1	~		
Storage										
Internal Storage		Storage Pools							C	<u>Q</u> I
SMB/CIFS		Name	Туре	Size	Available	Size	Drives	Status		
		pool1	STRIPE	3.63 TB	3.51 TB		Drives: /dev/sdd Spare Drives:	~	/ 5	j
NFS				0 00 TD			Drives: /dev/sdc			
iSCSI Target		pool4	STRIPE	3.63 TB	3.51 TB		Spare Drives:	× .	/ Ē	1
FTP					+ Add Po	ol				
USB Copy										
Rsync		Filesystems								
WebDAV		Name	Pool Typ	e Min. Max. Size Size	Avail. Space	mpressi	on Encryption DeDu	uplicate DTA	^e Status M	Мо
Status	4	volume1	pool4 fs	None 50.00	GB 50.00 GB Nor	ne	None None	e No	1	
Giatus	,	volume2	pool4 fs	None 50.00	GB 50.00 GB Nor	пе	None None	e No	1	
System	4				+ Add Files					

Select the page under the Storage > Internal Storage menu item to configure storage pools and volumes. A volume is the basic storage space on your SecureNAS unit. A volume is created on a storage pool. Before creating a volume you must first create a storage pool.

Create Storage Pools

1. On the Internal Storage page in the Storage Pools section, click the 📌 Add Pool button to create a storage pool.

Storage Pools						Q
Name	Туре	Size	Available Size	Drives	Status	
pool1	STRIPE	3.63 TB	3.51 TB	<u>Drives</u> : /dev/sdb <u>Spare Drives</u> :	~	/ 🗇
pool4	STRIPE	3.63 TB	3.51 TB	<u>Drives</u> : /dev/sdd <u>Spare Drives</u> :	~	/ 🗇
			+ Add Pool			



2. On the Add Pool pop-up, fill in the following information and then click the Add button:

	Add Pool
Pool Name:	
Select Protection Level:	None - STRIPE
	Mirror - MIRROR
	Single parity - RAIDZ-1
	Double parity - RAIDZ-2
	Triple parity - RAIDZ-3
	Striped mirror - STRIPED-MIRROR
	/dev/sda (Size: 5.46 TB SN: ZAD9ERLA)
Select Drives To Use:	/dev/sdb (Size: 5.46 TB SN: ZAD9E8TZ)
	/dev/sdd (Size: 5.46 TB SN: ZAD9EMSE)
	/dev/sda (Size: 5.46 TB SN: ZAD9ERLA)
Select Spare Drives:	/dev/sdb (Size: 5.46 TB SN: ZAD9E8TZ)
	/dev/sdd (Size: 5.46 TB SN: ZAD9EMSE)
	Add Cancel
Pool Name	The name for the storage pool that is being added. The only special characters allowed are hyphens (-) and periods(.). No spaces are allowed.
	Each pool name must be unique.
Select Protection Level	Select from the following:
	 None - STRIPE: The pool is configured for maximum speed, not to provide data protection. Any drive failure will result in data loss.
	• Mirror - MIRROR: Data is striped across two mirrors. This type of RAID offers the best



	performance for small random reads and writes.
	• Single parity - RAIDZ-1: Data is striped across multiple single parity arrays, which can tolerate one drive failure without data loss. This type of RAID has faster performance than double and triple parity based RAIDs.
	• Double parity - RAIDZ-2: Data is striped across multiple double parity arrays, which can tolerate two drive failures without data loss. In most cases, double parity provides the best balance between data protection, performance, and storage capacity.
	• Triple parity - RAIDZ-3: Data is striped across multiple triple parity arrays, which can tolerate three drive failures without data loss. This type of RAID provides the maximum data protection.
	• Striped mirror - STRIPED-MIRROR: Data is protected by combining disk mirroring and disk striping, which can tolerate failure as long as one disk in each mirrored pair is functional. This requires a minimum of four disks and striped data across mirrored pairs.
Select Drives to Use	Select the drives to include in the storage pool.
Select Spare Drives	Select the drives to be used as spares. You can select any drives that are not currently in a storage pool.

Volumes/Filesystems

Create Filesystems

1. On the Internal Storage page in the Filesystems section, click the Add Filesystem button to create a filesystem.

Name	Pool	Туре			Avail. Space	Compression	Encryption	DeDuplicate	Enable DTA	Status	Mount		
Test Filesystem	Test Pool	fs	None	None	5.28 TB	None Add Filesyster	None n	None	No	1		1	Ō

2. On the Add Filesystem pop-up, fill in the following information and then click the Add button:



	Add Filesystem
Name:	
Pool:	Test Pool (5.28 TB)
Туре:	Filesystem •
Minimum Size:	No Minimum 🔻
Maximum Size:	No Maximum 🔻
Compression:	off 🔹
Encryption:	off 🔹
DeDuplicate:	off 🔹
Enable DTA:	
	Add Cancel

Name	The name for the filesystem being added. The only special characters allowed are hyphens (-) and periods(.). No spaces are allowed. Each filesystem name must be unique.
Pool	Select from the available storage pools that are configured on your SecureNAS system.
Туре	Select from: • Filesystem • Raw



Minimum Size	Select the minimum size to be used for the filesystem:
	• No Minimum
	• Max Size
	• Custom: Enter a size in the textbox. Then select the units (i.e. GB, TB, etc.).
	Note: This option is only available when type Filesystem is selected.
Maximum Size	Select the maximum size to be used for the filesystem:
	• No Maximum
	• Max Size
	• Custom: Enter a size in the textbox. Then select the units (i.e. GB, TB, etc.).
	Note: This option is only available when type Filesystem is selected.
Size	Enter a size in the textbox. Then select the units (i.e. GB, TB, etc.).
	Note: This option is only available when type Raw is selected.
Compression	Choose from the options:
	• off
	• lzjb
	• gzip-1
	• gzip-2
	• gzip-3
	• gzip-4
	• gzip-5
	• gzip-6
	• gzip-7
	• gzip-8
	• gzip-9
	 zle lz4
	▼ 1∠ 7



Encryption	Choose from the options: • off • aes-128-ccm • aes-192-ccm • aes-256-ccm • aes-128-gcm • aes-192-gcm • aes-256-gcm
DeDuplicate	Choose from the options: • off • sha256 • sha256-verify • sha512 • sha512-verify • skein • skein-verify • edonr • edonr-verify
Enable DTA	Enable/Disable date time access timestamp tracking.



Mount a Filesystem

1. On the Internal Storage page in the Filesystems section, select the filesystem you want to mount. This will highlight the row. Then click on the toggle switch to mount the filesystem.

Note:

• To mount a filesystem that is encrypted with a SecureNAS Ciphertex Protect® Encryption Key, you must first unlock and then insert the SecureNAS Ciphertex Protect® Encryption Key in the SecureNAS unit.

SMB/CIFS

Configure SMB/CIFS

Select the page under the Storage > SMB/CIFS to configure settings for sharing volumes via SMB/CIFS.

CIPHEITEX®				Alerts	? Help	Accou
 Dashboard 	ď	SMB Configs				
My Account	•	Service Enabled Authentication Method	false Local			
Network	•	Workgroup: Server Description				
Services	•	Minimum Windows Version Supported Maximum Windows Version Supported	Windows NT Latest			
Storage	-	Guest Access Enabled	false			
Internal Storage					Edit	
SMB/CIFS						
NFS		Volumes				
iSCSI Target FTP		Name Volume1		Users 0		Share
USB Copy		▶ volume2		0		
Rsync						
WebDAV						
Status	•					
System	•					
administrator						

- 1. On the SMB/CIFS page in the SMB Configs section, click the Edit button to enable SMB/CIFS and modify the SMB configuration.
- **2.** On the Modify SMB Configs pop-up, fill in the following information and then click the OK button:



	Modify SMB Configs
Service Enabled:	
Authentication Method:	Local Active Directory
Workgroup:	
Server Description:	
Minimum Windows Version Supported:	Windows NT
inininani vinaono version supportea.	○ Windows 8 ○ Latest
Maximum Windows Version Supported	○ Windows NT ○ Windows Vista ○ Windows 7 :
	○ Windows 8
Enable Guest Access:	
	OK Cancel

	Modify SMB Configs
Service Enabled:	S
Authentication Method:	Local Active Directory
Domain/Realm:	
Domain Username:	
Domain Password:	
Confirm Domain Password:	
Server Description:	
Minimum Windows Version Supported	 Windows NT Windows Vista Windows 8 Latest
Maximum Windows Version Supporte	 Windows NT Windows Vista Windows 7 Windows 8 ■ Latest
Enable Guest Access:	
	OK Cancel



Service Enabled	Select this option to enable SMB/CIFS sharing.
Authentication Method	Choose either Local or Active Directory. Local: Allow local users added in the SecureNAS Management Console to access the shares. Active Directory: Use your Active Directory to control access to the shares.
Workgroup	The name of the workgroup that the shares will show up with are grouped together. Optional. Note: This option is only available when the Authentication Method Local is selected.
Domain/Realm	The Active Directory domain or realm that will be joined. Note: This option is only available when the Authentication Method Active Directory is selected.
Domain Username	The Windows user account that will be used to authenticate with Active Directory to determine if SecureNAS has permission to join the domain. Note: This option is only available when the Authentication Method Active Directory is selected.
Domain Password	The password for the Windows user account that will be used to authenticate with Active Directory. Note: This option is only available when the Authentication Method Active Directory is selected.
Confirm Domain Password	Re-type the password for the Windows user account that will be used to authenticate with Active Directory. Note: This option is only available when the Authentication Method Active Directory is selected.
Server Description	Similar to server name, this is how SecureNAS will appear in your Local Networks.
Minimum Windows Version Supported	The earliest Windows version with which the share is to be compatible. Choose from: • Windows NT



	 Windows Vista Windows 7 Windows 8 Latest
Maximum Windows Version Supported	The latest Windows version with which the share is to be compatible. Choose from: • Windows NT • Windows Vista • Windows 7 • Windows 8 • Latest
Enable Guest Access	Enabling this option will allow anyone to see the names of browsable shares.

Choose Volumes to Share via SMB/CIFS

- 1. On the SMB/CIFS page in the Volumes section, find the volume that you want to share.
- 2. To share a volume via SMB/CIFS, click on the toogle switch O under the heading Share. When the switch is blue and positioned to the right, the volume is shared.

Volumes		
lame	Users	Share
volume1	1	

Configure Volumes for SMB/CIFS

- 1. On the SMB/CIFS page in the Volumes section, select the volume that you want to share. This will expand the volume information.
- 2. Configure the volume according to the instructions below.
- **3.** Click the Update button to save the changes and update the volume.

SMB/CIFS Volume Accounts

- 1. On the SMB/CIFS page in the Volumes section, select the volume that you want to share. This will expand the volume information.
- 2. Configure the volume according to the instructions below.
- 3. Click the Update button to save the changes and update the volume.

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SecureNAS® Quick-Link

(Optional Accessory)

Setup

- 1. Take the SecureNas[®] Quick-Link cable and plug one end into any of the rear USB ports of the SecureNAS[®]. Plug the other end of the Quick-Link cable into any available USB port of your computer.
 - 2. If you are using a Windows 10 computer, the necessary drivers will automatically be installed when the cable is connected.
 - a. For older versions of Windows, you will need to manually install the necessary driver.
- **3.** Your SecureNAS[®] unit is now connected.



APPENDIX





Need Help? Call Us! 818.773.8989



Manage SecureNAS®

1. To access the Management Console for the SecureNAS[®] unit, open a web browser on your computer and navigate to http://<server_name>.

G	Goog	le		× +		
←	\rightarrow	G	S http://Secure	NAS		
At	pout	Store				
					Go	

- Replace <server_name> with the name that appears on the front LCD screen of the SecureNAS[®] unit.
- **b.** The server name automatically resolves to the correct IP Address.
- 2. You will be directed to the login screen for the SecureNAS® Management Console web UI.





Access Shares

- 1. First, you must configure shares on SecureNAS[®] using the Management Console.
- 2. To access shares via the SecureNAS[®] Quick-Link, open a file explorer on your computer and type \\<server_name> in the file explorer browser bar. Hit enter.
 - a. (Replace <server_name> with the name that appears on the front LCD screen of the SecureNAS[®] unit.)
 - **b.** The server name automatically resolves to the correct IP Address.



3. The SecureNAS[®] shared filesystems will be displayed in the file browser.



APPENDIX

Ciphertex Protect® Encryption Key

CIPHEITEX®) Alerts	? Help	Accou
) Dashboard	ď	Ciphertex Protect I	Кеу				¢
My Account		Sort By: Serial Num	ber V Sort Order: Ascending V				
Network		Serial Number	Description	Status	Paired	Unloc	ked
		10003354	John Smith key	× .		0	
Services	•	2000001	Fred Jottenhymer issued 2019-12-30	-			
Storage	•	31001133	Joan's key	× .			
Backup		45451122		A			
Васкир		65827112		1			
Status	•	69754121	Guest key from last week	-			
System	-	77000001		× .			
General							
Accounts							
Date & Time							
KMIP							
Security							
Protect Key							
administrator							

Select the page under the System > Protect Key menu item to configure a Ciphertex Protect[®] Key to be used with the SecureNAS. At least one Protect Key must be paired and unlocked with a SecureNAS unit to allow use of secure encrypted storage.

The SecureNAS with Protect Key delivers FIPS 140-2 Level 3 validated, AES-256 compliance. The Protect Key protects sensitive data while at rest by preventing unauthorized access. It provides security and reliability without impacting drive performance.

WARNING!

• IMPORTANT: It is very important that you always keep a paired Protect Key in a safe location and store the password for it in a known and safe location. If you render all of your paired Protect Key inoperable, you will lose access to all encryped data on the Secure NAS. There is no way to recover from this situation.



STATUS OF A PROTECT KEY

A Protect Key entry can display three different statuses:



- The Protect Key is currently plugged into a USB port on the SecureNAS unit and connected to the system.
- The Protect Key is not plugged into a USB port on the SecureNAS unit.
- A : The Protect Key is currently plugged into a USB port on the SecureNAS unit, but has trouble and cannot be used.
- X : The Protect Key is currently plugged into a USB port on the SecureNAS unit, but is blocked due to exceeding incorrect password attempts.
- The Protect Key is currently plugged into a USB port on the SecureNAS unit, but might be currently paired to another SecureNAS unit.

Note:

- Do not attempt to use third-part applications to manipulate the configuration of the Protect Key. Doing so may render the Protect Key inoperable.
- When a Protect Key has been rendered inoperable, it can be removed from the system key list and then added back in as a new key assuming you have at least one paired Protect Key that can be unlocked.
- In order to create an encrypted filesystem, a Protect Key must be connected to a USB port on the SecureNAS unit, paired with the system, and unlocked.
- In order to mount an encrypted filesystem, a Protect Key must be connected to a USB port on the SecureNAS unit, paired with the system, and unlocked.
- Once you have mounted an encrypted filesystem, you can disconnect the Protect Key from the USB port and the filesystem will still be accessible.
- After the SecureNAS has been restarted, all encrypted filesystems will be unmounted. A Protect Key must be used to mount the filesystems for use.
- After the SecureNAS has been restarted, any inserted Protect Key will automatically be locked.
- Any Protect Key that has been disconnected from a USB port will be automatically locked.
- In order to pair additional keys to the NAS, a paired and <u>unlocked</u> key must be in the NAS.

CONFIGURE A PROTECT KEY FOR USE WITH SECURENAS

- 1. Insert a Protect Key into a USB port on the SecureNAS unit.
- 2. The Protect Key serial number will show up in the table on the Protect Key page
- **3.** Ensure that there is a green check mark

under Status and that both the Paired and Unlocked

toggle switches 🔵 are off.



4. Next, click on the Paired toggle switch for the Protect Key.

5. In the Pair Protect Key pop-op, fill out the following information and then click the **Pair** button.

	Pair Protect Key
Serial Number	65827112
Protect Key Password	۲
Description	
Override Pairing	
	Pair Cancel
Serial Number	The serial number for the selected Protect Ke This value is provided by the system and is not

	modifiable.
Protect Key Password	The password to be used to unlock the Protect Key once connected to the SecureNAS unit. This password serves as a second factor of authentication when using your Protect Key for encryption. A password must be exactly 8 characters and only contain a-z, A-Z, 0-9, !, \$, #, %. No spaces are allowed.
Description	A description for the Protect Key. This is for informational purposes only. Optional. If the Description is left blank, it will be auto-filled with the date and time that the Protect Key was paired with the system.
Override Pairing	If this option is selected, the Protect Key will be paired to this SecureNAS unit and will be unpaired



from the other SecureNAS unit that it is currently paired to.

This option is only available when the Protect Key is currently paired to a different SecureNAS unit.

Note: This will unpair the selected Protect Key from any other SecureNAS unit. If this Protect Key is the only key on the other SecureNAS unit, do Not override the pairing. This will make all data on the other Secure Nas unit unrecoverable.

6. The Protect Key is now added to the system.

Note:

- You must have at least one unlocked Protect Key in order to create new encrypted filesystems and to mount encrypted filesystems.
- A Protect Key must be Unlocked for it to be used to create new encrypted filesystems and to mount an encrypted filesytem.
- **1.** To unlock a paired Protect Key, click on the Unlocked toggle switch for the Protect Key.
- **2**. In the Unlock Protect Key pop-up, fill out the following information and then click the Unlock button:

ι	Jnlock Protect Key
Serial Number	65827112
Protect Key Password	٢
	Unlock Cancel

Seriel Number	The seriel number for the selected Protect Key. This value is provided by the system and is not modifiable.



Protect Key Password

The password that was chosen and entered when the Protect Key was paired with the SecureNAS unit.

When entering your password to unlock the Protect Key, you will have 5 tries to enter the correct password. If you fail 5 times consecutively, the Protect Key will be rendered unusable. When a correct password is entered, the error retry count is always set back to 5 tries.

LOCK A PROTECT KEY



- Locking a Protect Key prevents its use with the SecureNAS unit.
- Disconnecting a Protect Key from a USB port will automatically lock it.
- A Protect Key can remain inserted into a USB port while it is locked
- 1. Click on the Unlocked toggle switch for the Protect Key to move the toggle switch into the "off" position

UNPAIR A PROTECT KEY

\land Note:

- The Unpair Protect Key Operation cannot be undone. Once the Protect Key has been unpaired, it will not be usable with the SecureNAS unit unless it is paired again with a new password.
- To Unpair, the Protect Key does not need to be plugged into a USB port on the SecureNAS unit.
- 2. Click on the **Paired** toggle switch for the Protect Key.
- **3.** In the pop-up, enter your login password and click the **Unpair** button.

Apply Firewall Rules

SecureNAS has a built-in firewall that can be enabled to further protect your system from internet threats.

- 1. From the menu on the left, select **Services > Firewall**.
- 2. On the Firewall page select the **Enable Firewall** checkbox.
- **3.** Click the **Apply** button to apply these changes.



Model and Part Numbers

Model: SecureNAS® CX-80KHD-X

- P/N: SNCX80KH-32G-32T = 32TB
- P/N: SNCX80KH-32G-64T = 64TB
- P/N: SNCX80KH-32G-80T = 80TB
- P/N: SNCX80KH-32G-96T = 96TB
- P/N: SNCX80KH-32G-128T = 128TB
- P/N: SNCX80KH-32G-144T = 144TB

Model: SecureNAS® CX-80KSD-X

- P/N: SNCX-80KSX-32G-8T = 8TB
- P/N: SNCX-80KSX-32G-15T = 15TB
- P/N: SNCX-80KSX-32G-30T = 30TB
- P/N: SNCX-80KSX-32G-60T = 60TB
- P/N: SNCX-80KSX-32G-120T = 120TB

Model: SecureNAS® CX-120KHSD-X

- P/N: SNCX120K-32G-150T = 150TB
- P/N: SNCX120K-32G-159T = 159TB
- P/N: SNCX120K-32G-174T = 174TB

With optional Copper NIC append to Part Number

- -10G2 for 10Gbps 2 Port
- -10G4 for 10Gbps 2 Port
- -40G for 40 Gbps
- -50G for 50 Gbps

EXAMPLE:

A 16TB SecureNAS CX40KHD with a 10G Copper 2 Port Add-on is P/N: SNCX40KH-32G-16T-10G2

Hard Drive Assembly into the Tray

















- 6. PCIe Extension
- 7. PCIe Extension
- 8. DB1Port
- 9. 10 GbE SFP+Ports
- 10.10 G Ethernet Ports(4)
- 11. RJ-45 Gigabit LAN
- 12. USB 3.0 (Type A Ports)
- **13.** IPMI Port **14.** Power
- Connector
- **15.** The OS is mirrored on two internal 2.5" SSDs for fail-safe operation.







SecureNAS® CX-80KHD-X

SecureNAS® CX-80KSD-X

SecureNAS® CX-120KHSD-X



Ciphertex Protect® Encryption Key



FCC CE COMPLIANCE - Designed and Manufactured and Software Development in the USA. AS9100D with ISO 9001:2015 NSF-ISR

Made in the U.S.A.

V1.13.21

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