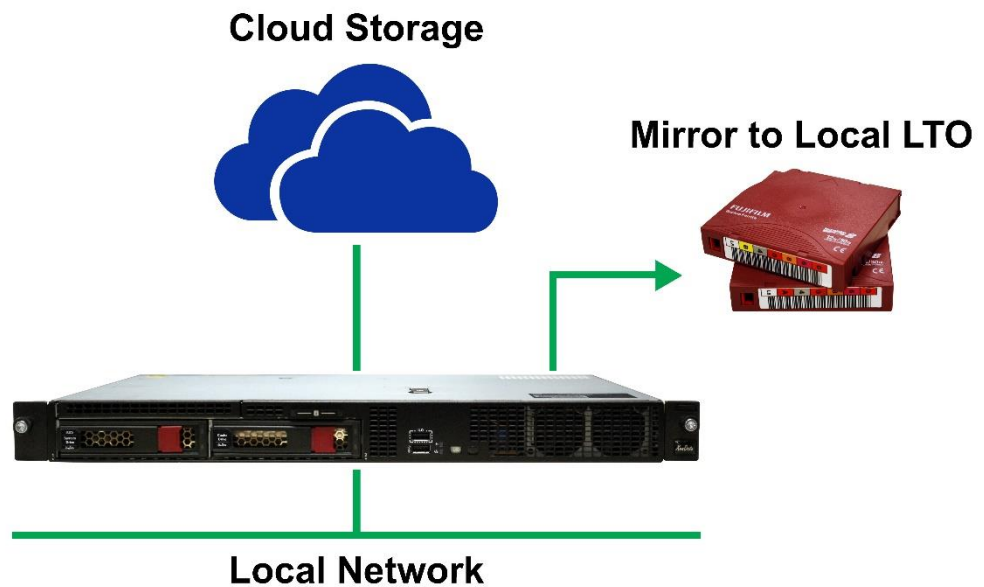


CX-10 Plus



Cloud Archive Appliance
with Local Backup



Archive to Cloud, Mirror to LTO

The CX-10 Plus Appliance connects to your local network and provides a fast gateway to unlimited cloud object storage. It is optimized for media archives allowing users to play video files directly from the cloud. Furthermore, it has proven integration with many complementary media applications including Media Asset Management systems.

Content written to the cloud is mirrored to LTO data cartridges creating a local backup copy for greatly enhanced data protection. The LTO backup keeps all file versions and deleted files which means you can restore a file if accidentally overwritten or deleted. And when you want to move to a different cloud provider, files can be restored from the LTO backup, avoiding expensive egress fees.

Benefits

- ✓ **Optimized for media files** – supports video streaming and complementary MAMs
- ✓ **Increased data protection** – LTO backup avoids paying for costly cloud geo-replication
- ✓ **Avoids cloud provider lock-in** - move to a new provider without paying exorbitant egress fees

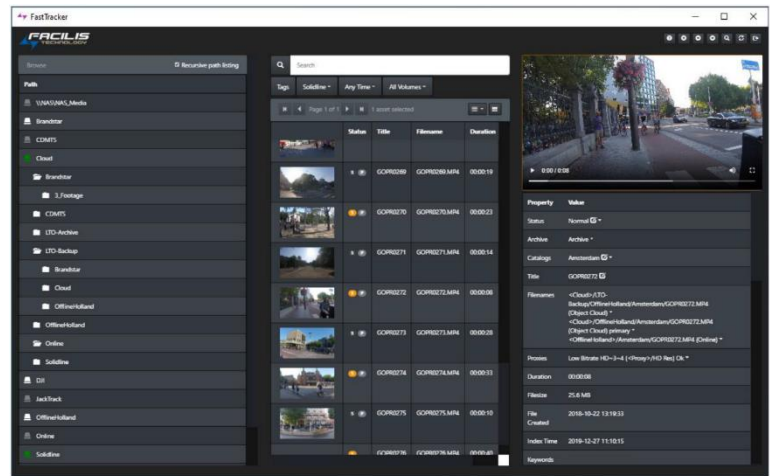
Optimized for Media Files

The CX-10 Plus Appliance provides a fast connection to cloud object storage by using multi-threaded archive and restore operations, even when transferring a single large video file. The CX-10 Plus will restore the file byte ranges requested by an application which means you can use a media player to stream multi-media files directly from the cloud.

The Appliance can be connected to a network and accessed by multiple concurrent users. It has three USB 3.2 ports which also allow connection of local disk drives for upload or download of content. For example, a camera card reader can be connected to one of the USB ports for easy upload of raw footage.

The CX-10 Plus is compatible with many complementary applications used in the media and entertainment industry including many Media Asset Management systems. Many applications use a XenData API for tight integration and some complementary applications can even be run on the appliance. For information about proven integrations, please refer to the 'Technology Partners – Software' section of the XenData web site.

FastTracker from Facilis Technology, shown opposite is an example of a cost-effective MAM which runs on the CX-10 Plus. It will automatically process files while they are temporarily retained on the local 14 TB cache, creating previews, proxies and transcriptions.



Backup to LTO

Content written to the cloud is mirrored to LTO data cartridges creating a local backup copy. This is how it works:

- ❖ All archived files are first written to the CX-10 Plus internal 14 TB disk cache from where they are immediately uploaded to the designated cloud storage.
- ❖ The archived files are retained on the cache for a defined retention period, typically a day.
- ❖ Every few hours the files are synchronized to LTO creating a mirror copy of the file-folder structure that has been archived to the cloud.

Creating a local synchronized copy, not only gives peace of mind, but it saves on the cost of cloud storage. It means that there is no need to geo-replicate your files across two of the cloud provider's datacenters which typically doubles the cost of cloud storage. The CX-10 Plus creates a copy of your data in your facility, under your control. And if you are using a cloud provider that charges for egress, such as AWS or Azure, you can change providers without paying expensive egress fees.

Supported LTO Devices

The CX-10 Plus has two SAS ports at the rear which connect to one or two external LTO drives or to a small LTO library with up to 8 slots and one LTO drive. The Appliance supports a wide range of drives and libraries from LTO-5 to LTO-9. The ideal device is a small LTO library connected to the CX-10 Plus, illustrated below, as this minimizes the need for operator intervention. You just load the library with blank tape cartridges and the system will automatically start writing to the next cartridge when the current tape becomes full.



A list of supported LTO devices is available from the XenData web site.

Supported Cloud Object Storage

For an up-to-date list of supported cloud providers, please refer to the XenData web site. Supported cloud providers include:



The CX-10 Plus will write to and restore from AWS S3, providing instant access. AWS Lifecycle policies may be configured to move your files to Glacier Flexible Retrieval or to Deep Glacier. Then the CX-10 Plus may be used to instruct rehydration of individual files back to S3.

AWS egress fees are typically in the range of \$80 to \$90 per TB. The CX-10 Plus provides you with a local copy of your files, allowing you to avoid these fees if you ever decide to leave. And having a replica copy of your files on LTO reduces the need for Azure geo-replication, reducing the cost of your cloud storage.



The CX-10 Plus will write to and restore from Azure Cool or Hot Tiers which provide instant access. Azure Lifecycle policies may be configured to move files to the Archive Tier. Then the CX-10 Plus may be used to instruct rehydration of individual files back to either the Cool or Hot tier.

Azure egress fees are typically in the range of \$70 to \$80 per TB. The CX-10 Plus creates a local copy of your files, allowing you to avoid these fees if you ever decide to leave. And having a replica copy of your files on LTO reduces the need for Azure geo-replication, reducing the cost of your cloud storage.

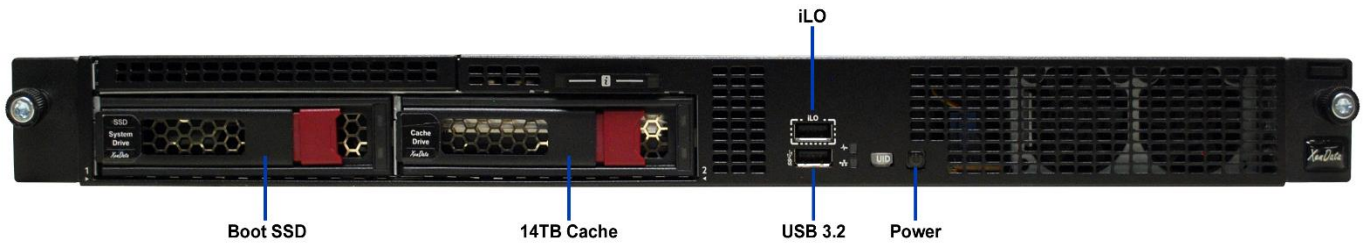


The CX-10 Plus will write to and restore from Wasabi S3 storage, providing instant access. Wasabi does not offer lower cost storage tiers but offers a major benefit: no egress fees.

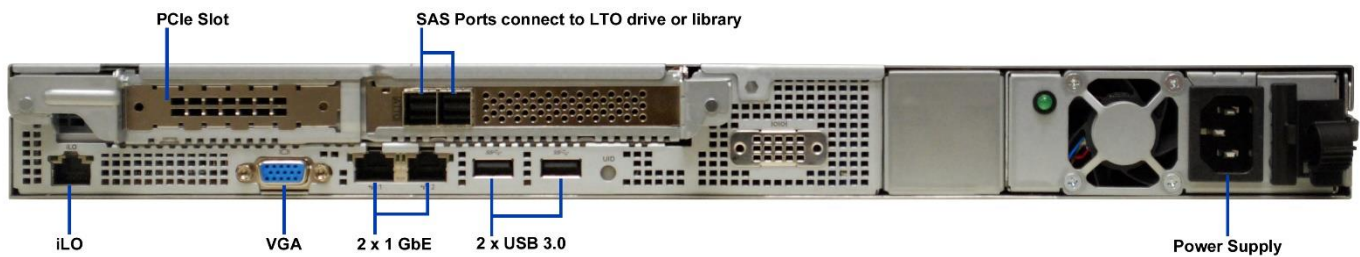
As for AWS and Azure, Wasabi offers an option to replicate your content across two of their data centers for improved data protection. This replication doubles the cost of Wasabi storage. The CX-10 Plus allows you to replicate to LTO at your own facility rather than another Wasabi datacenter, halving the cost of your Wasabi storage.

Connections

Front



Rear



XenData Software Licenses and Hardware Warranty

Software The CX-10 Plus includes a 36 month subscription for the XenData software licenses listed below, giving you everything that you need for 36 months. That includes premium support from XenData.

Software	License Type	Description
Archive Series, LTO Edition	36 months license subscription to support either two external LTO drives or an LTO library with up to 8 slots and one LTO drive.	This is the core software that manages the system.
Cloud File Gateway Extension	36 months license subscription to manage up to 200 TB of cloud storage.	This manages object storage in multiple clouds up to a total capacity of 200 TB. It may be upgraded in units of 100 TB.
FS Mirror	36 months license subscription.	This is the software that mirrors the files written to the cloud to LTO

Hardware Warranty The CX-10 Plus has 36 months of onsite support for the hardware, excluding the disks. The disks have 36 months of advanced exchange support.

Base System Specification

XenData SKU: 232030

Operating System:	Microsoft Windows 11 Pro
Processor:	4-core Xeon
RAM:	16 GB (may be upgraded to 32 GB)
Managed Local Disk (Cache Disk):	14 TB 7.2K SATA disk
Boot volume disk:	480 GB SSD
Base Model Network Ports:	Two 1 GbE ports
Optional Additional Network Ports:	Two 10 GbE ports (uses spare PCIe slot)
Network Protocols:	CIFS/SMB, NFS and FTP
SAS Ports:	Two SFF-8644 in rear for connection to external LTO drives or library
USB Ports:	Two USB 3.2 in rear; one USB 3.2 on front
Spare PCIe 4.0 slots:	One
Number of Power Supplies:	One
Voltage Frequency:	100 – 240 V 50-60 Hz
Peak Power Requirements:	290 Watts
19 Inch Rack Form Factor:	1U
Depth	15.05 inches (382 mm)
Weight:	13.23 lbs. (6 Kg) maximum
Rack Rails:	Included

Upgrade Options

XenData SKU	Description
107375	RAM upgrade, adding 16 GB, to take total RAM to 32 GB.
101049	Dual port 10 GbE network adapter HP 530SFP+ pre-installed in the CX-10 Plus. Transceivers (XenData SKU 101081) not included. Uses the spare PCIe slot.
101145	Dual port 10 GbE network adapter for use with CAT6 or UTP cabling pre-installed in the CX-10 Plus. Uses the spare PCIe slot.
101081	SFP+ 10 Gb/s LC Short Range Transceiver for insertion in SKU 101049. Quantity 2 required to use both 10 GbE ports in the adapter.
301105	Capacity upgrade of 100 TB for the managed cloud storage.

Contact Us

XenData USA

Address: 2125 Oak Grove Road, Suite 100, Walnut Creek, CA 94598
Phone: +1 925 465 4300 | **Email:** xendata@xendata.com

www.xendata.com

Last Updated: August 18, 2022

XenData Europe

Address: Sheraton House, Castle Park, Cambridge CB3 0AX, UK
Phone: +44 1223 370114 | **Email:** xendata@xendata.com