

XenData SX-10V2 Archive Appliance for Sony ODS-L30M

Installation and Users Guide



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Notices

SAFETY

To avoid the possibility of personal injury, be sure to turn off the power to the equipment and disconnect the power cable before removing the cover.

FCC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Shielded cables are required for this device to comply with FCC Rules. Use shielded cables when connecting this device to others.

European Directive on Waste Electrical and Electronic Equipment (WEEE)

XenData encourages its customers to use current recycling practices in order to reduce the burden that waste electronic products place on the environment.

If you are retiring a fully functional appliance, you are encouraged to transfer the functional unit to a new user, thereby extending the useful life of the tape library. The manufacture of all products requires the consumption of energy. By extending the life of the equipment, energy is conserved.

In accordance with environmental directives that are being implemented in many countries (refer to the European Directive on Waste Electrical and Electronic Equipment - WEEE) XenData provides customers with "End of Life Instructions" that identify the process for recycling the materials and components that make up this equipment.

End of Life Instructions:

Tools required

No. 1 Phillips head screwdriver

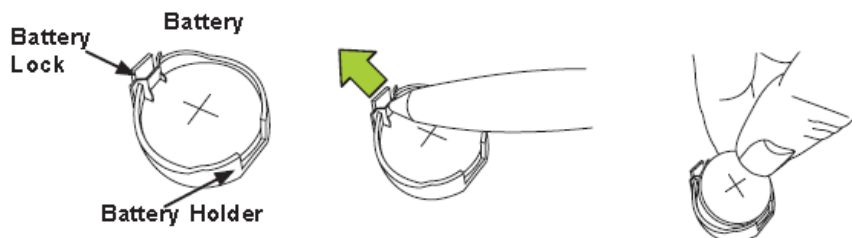
Disassembly procedure

1. Remove power cable.
2. Remove 5 screws that hold the case cover in place.
3. Remove case cover.
4. Remove internal subassemblies.

Items requiring special disposal

Battery

The motherboard contains a battery which should be removed as shown below.



Do not damage the battery in any way, as a damaged battery may release hazardous materials into the environment. Do not dispose of the battery in general garbage and follow the requirements applicable to local laws and regulations. Within the EU, the battery may be returned to your reseller for disposal.

PCIe Riser Card

The PCIe riser card requires special disposal, as it contains lead-based solder.

Reduction of Hazardous Substances (RoHS)

This equipment is compliant with the European RoHS Directive 2002/95EC as long as used as provided in the Server Exception, located in Section 7 of the Directive Annex. Use of the products outside the scope of the Server Exception will not be compliant with the Directive.

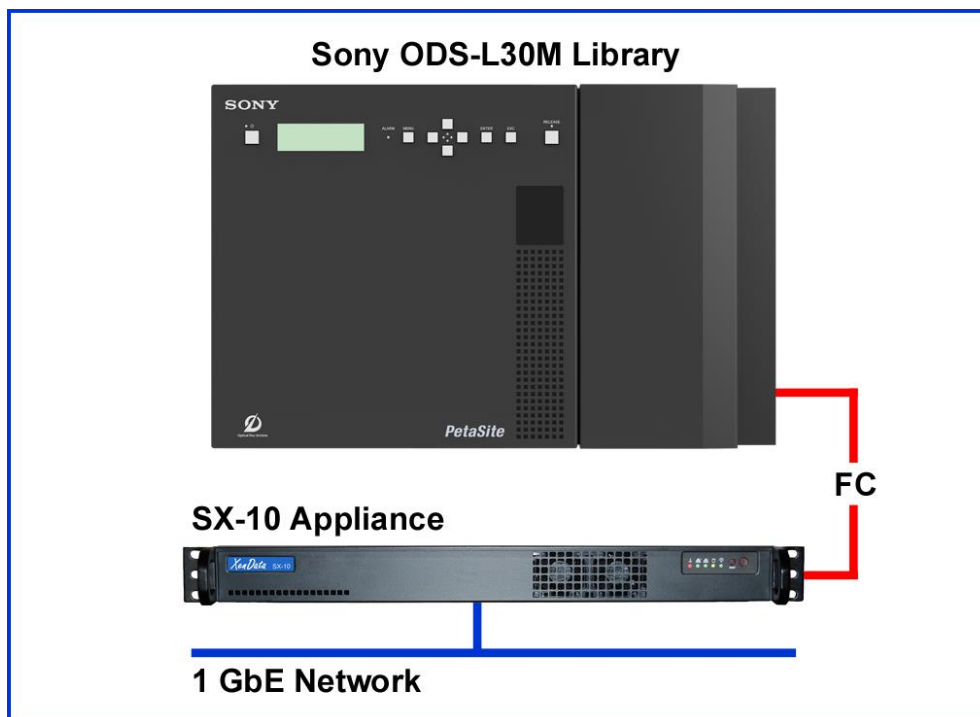
New and Used Parts

XenData equipment is manufactured from new parts, or new and used parts. Regardless, XenData's warranty terms apply unless the equipment is specifically identified by XenData as "used" or "refurbished".

Chapter 1. Introduction

1.1 Overview

The SX-10 runs XenData6 Server software on a Windows 7 platform and when coupled with the Sony ODS-L30M library scales to 432 TB of near-line capacity. It is available in 2 standard configurations – supporting an ODS-L30M library with up to 2 internal drives and up to either 30 or 131 slots.



The solution presents the archive as one or more standard network shares. An SX-10 network share supports the standard Windows network protocol (CIFS/SMB) and FTP file transfers. In addition, storage devices may be plugged into the USB ports on the SX-10 and files may be transferred locally between the USB device and LTO. This means that the archive can be used simultaneously by multiple standard applications.

The SX-10 has an Intel Xeon E3 Quad-Core 3.2 GHz processor, 32 GB RAM and includes a 4 TB disk cache which is used to enhance archive and restore performance and may also be used to retain selected files on disk.

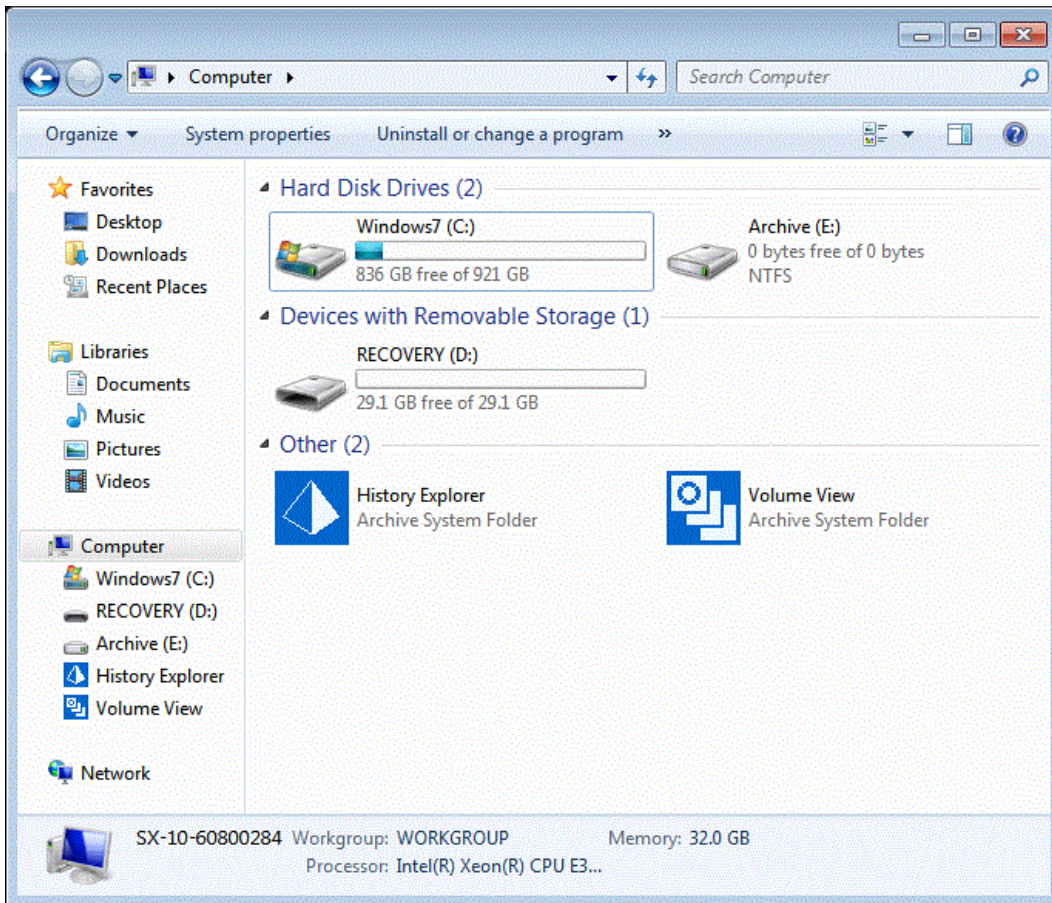
The SX-10 runs the following software.

- A Windows 7 x64 Professional operating system
- XenData6 Server software which provides comprehensive management of an optical archive.
- The XenData Alert Module which provides email alerts and on-screen notifications.

Please refer to the respective Administrator Guides for details on configuring the XenData6 Server software and XenData Alert Module software.

1.2 SX-10 Logical Drives

The SX-10 has three logical drives which are illustrated below.



C: is the Windows 7 system drive.

D: is a removable USB memory stick which is mounted internally in the SX-10. It is suitable as a target for the XenData Metadata Backup program which is described in the Administrator Guide for XenData6 Server software.

E: is the archive logical drive. It contains the files held on the 4 TB disk cache and all optical disc archive cartridges that the system knows about. Typically, one (or more) folders on the E: drive are shared to provide network access to the optical archive.

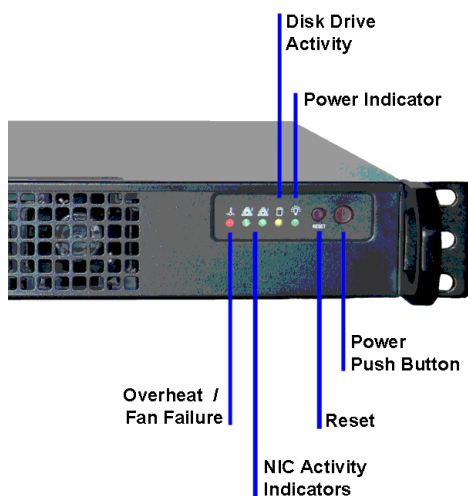
1.3 Specification

Processor	Intel Xeon E3 Quad-Core 3.2 GHz
RAM	32 GB
System drive capacity (C:)	1 TB
Recovery memory (D:)	Internal removable 16 GB USB memory stick
Archive disk cache (E:) capacity	4 TB
Connections to LTO drives / library	2 x SFF-8088 connectors; 6 Gb/s SAS or 2 x LC connectors; 8 Gb/s FC
Network connections:	2 x RJ45 connectors; 1000BASE-T, 100-BASE-TX, 10BASE-T
Keyboard/mouse connections:	2 x PS/2
USB connectors:	2 x USB 2.0
Operating temperature	50-95 F (10-35 C)
Operating humidity:	8-90% non-condensing
Power:	100-240V; 50-60 Hz; 2-4Amp max
Form factor:	1U, 11.3" deep
Dimensions (HxWxD):	1.7" x 17.2" x 11.3" (43mm x 437mm x 287mm)
Weight:	11 lbs (5 KG)

1 GB = 10⁹ Bytes; 1 TB = 10¹² Bytes

Chapter 2. Control Panel and Connections

2.1 Front Control Panel



Power Push Button This is used to apply or remove power from the internal power supply to the appliance. Power-on or power-off by momentarily pressing this button. Powering off using this button keeps standby power applied to the system. To completely remove power to the system, unplug the power cable at the rear of the unit.

Reset Button The reset button is used to reboot the system under special circumstances. Routine reboot should not be performed using this button; rather the system should be rebooted using the 'Restart' option from the Windows 7 Start menu.

Power Indicator LED This indicates that power is being supplied to the appliance. It is off when the system is in standby mode.

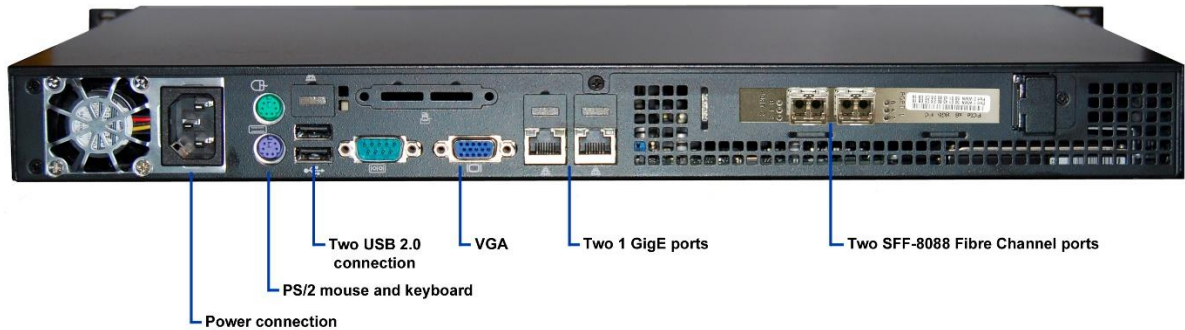
Disk Drive Activity LED This indicates activity on the disk drive bus. It will light when either of the disk drives is active.

NIC Activity LEDs These indicate network activity on the 1 GigE network ports.

Overhead / Fan Failure LED When this LED flashes, it indicates a fan failure. When it is continuously on, it indicates an overheat condition which may be caused by obstruction of the airflow to either the front or rear of the unit or due to the ambient room temperature being too high.

2.2 Rear Connections

The rear of the SX-10 is shown below:



Power Connection This connects to a 100v to 240v AC power source using the supplied cable.

PS/2 Keyboard and Mouse Port The upper green port connects to a PS/2 mouse and the lower purple port connects to a PS/2 keyboard. Alternatively the keyboard or mouse may be connected via USB.

USB Connections Two USB 2.0 connections are provided.

VGA Connection This connects to a VGA computer monitor.

1GigE Ports Two network ports are provided that support 1000BASE-T, 100-BASE-TX and 10BASE-T networks. These ports accept RJ45 Ethernet cables.

FC Ports The two FC ports provide 8 Gb/s connections to the ODS-L30M library. The connectors are LC type.

Chapter 3. Installation

3.1 Rack Mounting

The SX-10 may be mounted in a standard 19 inch rack. There is a wide range of rack units on the market which may mean that the assembly procedure will differ slightly. You should refer to the assembly instructions for the rack unit that you are using.

Mount the SX-10 in a rack location that has good airflow to the rear and front of the unit. The mounting procedure is as follows.

1. Place four retained nuts in the rack to mate with the four screws supplied with the SX-10 and ensure that the nuts and screws are compatible.
2. Align the holes of the SX-10 with the holes of the rack.
3. Insert and tighten the four screws.

3.2 Desktop Mounting

The SX-10 produces a low level of noise and is suitable for use in an office environment. If you wish to desktop mount the unit, attach the four rubber feet to the base of the unit.

3.3 Initial System Configuration

The initial system configuration is performed by following the steps described below. If you would like assistance from XenData Support, please contact us at support@xendata.com and schedule a time for assistance. We will ask you to perform steps 1 to 4 and will then make arrangements with you for remote access to the SX-10.

1. Connect all cables to the system, including keyboard and mouse, VGA monitor, network cable that provides Internet connection, ODS-L30M library and power connections.
2. Power on the ODS-L30M library and wait for the device to come ready.
3. Power on the SX-10 using the power push button.
4. Logon using the following: User name: Admin; Password: XDpassword1
5. The next step is to install device drivers for your library. Detailed step by step instructions for the ODS-L30M are available in the support section of the XenData web site at: www.xendata.com. Select XenData6 Server and then go to both Library and Tape/Optical Drive Support Lists.
6. Reboot the SX-10 and the system is now ready for use.

3.4 Setting Policies for Archiving to Optical Disc Archive Cartridges

Please refer to the Administrator Guide for XenData6 Server software. You may also find the XenData6 Server 'How To' Support Videos useful. These are available in the support section of the XenData web site at: www.xendata.com.

3.5 Configuring the XenData Alert Module

Please refer to the Administrator Guide for the XenData6 Server software.

Chapter 4. Power-On and Power-Off Procedures

4.1 System Power-On

It is important that the ODS-L30M library is powered on and is ready before the SX-10 boots. Please follow the procedure described below.

1. Power on the library and wait until it comes ready.
2. Power on the SX-10 using the power push button.

4.2 System Power-Off

Please follow the procedure described below.

1. Ensure that all write and read operations to Optical Disc Archive cartridges have completed.
2. Ensure that there are no cartridges in any of the drives in the library. If necessary wait until the drives unload automatically. (The XenData software, by default, will unload cartridges after 10 minutes of inactivity.)
3. Power off the SX-10 using 'Shut down' from the Start menu.

Chapter 5. Importing and Exporting Cartridges

5.1 Importing Cartridges

Import Optical Disc Archive cartridges into the ODS-L30M library using the library controls. The cartridges will be automatically recognized by the XenData software running on the SX-10.

5.2 Exporting Cartridges

Use the Archive Management Console to export cartridges from the library. Please do NOT use the Sony ODS-L30M controls to perform cartridge export.