

X75HD/X75SD Module Installation Note

Overview

This X75HD/X75SD module installation note includes the following procedures:

- “[Removing and Replacing the Chassis Cover](#)” on page 1
- “[Removing a Filler Plate](#)” on page 2
- “[Installing an Audio Synchronizer Module, HDTV Module, or a Decoder Module](#)” on page 2
- “[Installing a Dolby Decoder Module](#)” on page 3
- “[Installing a Redundant Power Supply](#)” on page 4
- “[Connecting Analog Audio](#)” on page 5

You can find detailed installation instructions in “Chapter 5: System Installation and Connections” and in “Appendix C: Servicing Instructions” in the *X75HD/X75SD Multiple Path Converters and Frame Synchronizers Installation and Operation Manual*.

Removing and Replacing the Chassis Cover



Caution

With the power cord disconnected, the unit is no longer grounded. Be aware of possible damage caused by static electricity.



Note

Some X75HD/X75SD units use a split cover, making it possible to install a power supply without removing the X75HD/X75SD from the rack.

Before installing any hardware options, follow these steps:

1. Read and heed the safety precautions outlined in the “[Preface](#)” on page iii of the *X75HD/X75SD Multiple Path Converters and Frame Synchronizers Installation and Operation Manual*.
2. Confirm that the X75HD/X75SD is turned off and that the power cord is disconnected from the rear panel.
3. Use a Phillips screwdriver to remove the retaining screws on the chassis cover. Keep the screws, as they will be needed to replace the top cover.
4. Lift off the chassis cover from the X75HD/X75SD.
5. Install the X75HD/X75SD modules, as described in this document.
6. Replace the top cover, using the original screws.
7. Plug the power cord back in.

Removing a Filler Plate



Caution

Prior to operation, a module or blank filler plate must be installed in all slots to maintain proper ventilation and avoid overheating.

To remove a back panel blank filler plate prior to installing a new module, follow these steps:

1. Remove the frame's chassis cover, as described on [page 1](#).
2. Remove the screws from the blank filler plate on the rear panel where the new module is to be installed.
Retain the screws for later use.
3. Remove the filler plate.
4. Install the new module prior to operation.

Installing an Audio Synchronizer Module, HDTV Module, or a Decoder Module

To install an audio synchronizer module (X75OPT-AS-8, X75OPT-AS-8-L, X75OPT-AS-16, or X75OPT-AS-16-L), an HDTV module, or a decoder module (X75OPT-A3D and X75OPT-PQM) in an X75HD/X75SD frame, follow these steps:

1. Remove the chassis cover and the back panel blank filler plate, as described on [page 1](#) and above.

2. Remove the module from the packaging.

Each package includes one module, the appropriate number of stackers, and standoff screws.

The number of stackers per module is as follows:

- Audio Synchronizer: four
- HDTV: seven
- Decoder: three

3. Turn the module upside down and insert the stackers into the corresponding connectors on the underside of the module.

(See [Figure 1](#) for the stacker positions)

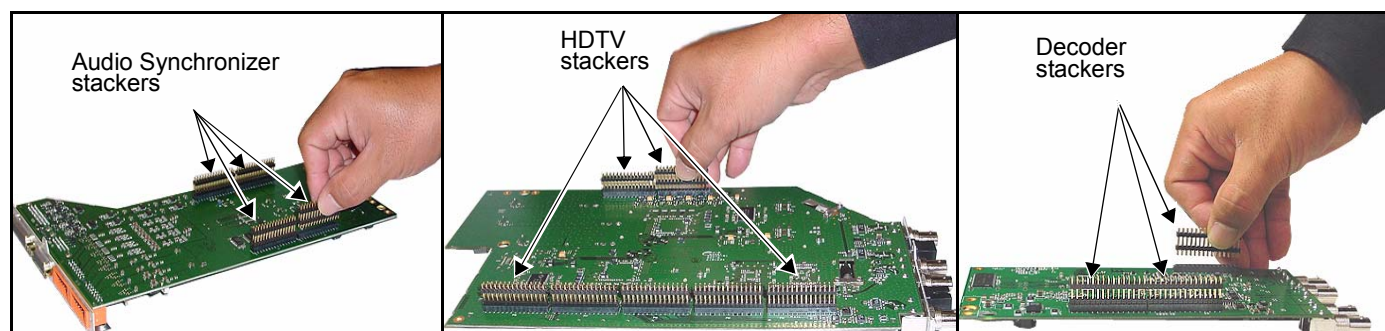


Figure 1. Connecting Stackers to Audio Synchronizer, HDTV, and Decoder Modules

4. Return the module to its upright position, and then align it with the appropriate standoffs attached to the main board.
5. Push the module gently over the stacker connection points until they lock firmly into place.
6. Secure the new module to the main board standoffs using the screws provided.
7. Screw the back panel into place using the original filler plate/back panel screws.
8. Reinstall the chassis cover using the original chassis screws.

Installing a Dolby Decoder Module

If you have ordered a Dolby decoder module (X75OPT-DOLBY-1) separately to add to your X75HD/X75SD system, you must first remove the existing audio submodule from the main board. There are two levels of installation for the Dolby decoder module: hardware and softkey.

To install the Dolby decoder module, follow these steps:

Hardware Installation

1. Remove the chassis cover as described on [page 1](#).
2. Remove the three rear connector screws that secure the module to the frame.
3. Remove the three screws that secure the audio submodule to the main board.
4. Gently lift the audio submodule off of the main board.

Be sure to lift the module off evenly to prevent the stacker connector pins from bending or breaking. Inspect the connectors on the module and main board to ensure that all pins are straight.

5. Install the Dolby decoder module in the socket. (See [Figure 2](#).)
6. Press down the edges slowly until you hear the metal clips click.
7. Reinstall the audio module gently and install all screws.

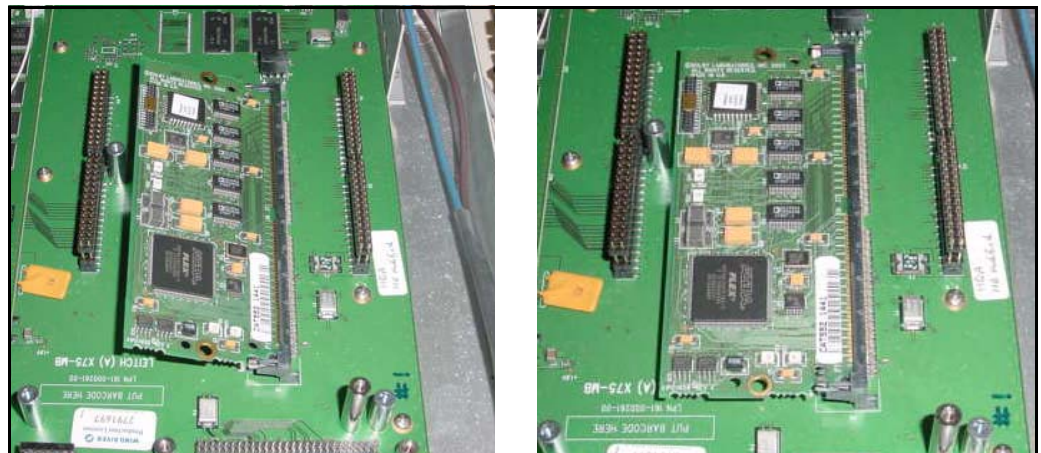


Figure 2. Dolby Decoder Module Installation

Softkey Installation

The Dolby decoder requires a softkey code to operate. The softkey can be entered using the control panel or the Web Server software application. Follow these instructions to enable the softkey option:

1. Go to the **System Config>Setup** menu and select the **License Key** parameter.
2. Enter the fourteen license key characters and press **Enter**.

Installing a Redundant Power Supply

This procedure describes the installation of a new redundant power supply when there is only one power supply currently in the frame. As seen from the front, a redundant power supply is mounted on the right side of the frame. Follow these steps to install a redundant power supply:

Note

If the HD submodule is installed, you may need to remove it first before connecting the DC cables.

1. Remove all power from the frame, and then remove the chassis cover, as described on [page 1](#).
2. Install the power supply onto the four standoffs on the chassis floor, and then screw the power supply into place.

The two-pin AC cable connector faces the front of the chassis, while the two six-pin DC cable connectors face the rear.

3. Connect one end of the main DC power cable and the secondary DC ribbon cable to the main board, and the other end of each cable to the power supply.
4. Plug the two-pin AC connector into the power supply, ensuring that the neutral wire is on the left side and the live wire is on the right, as seen from the front.

The AC polarity is as follows:

- Black/brown: live wire
- White/blue: neutral wire

5. Secure the AC cabling to the chassis.

To do this, follow these steps:

- a. Attach the self-stick tie holders to the chassis floor (two locations for each power supply's AC cabling).
- b. Feed the tie wraps through the holders.
- c. Wrap the tie wraps around the AC cabling.
- d. Clip any extra tie length.

6. Take off the AC inlet cover plate by removing the inlet cover screw on the chassis side, and then install the new AC inlet into the slot.

Ensure the following during installation:

- The ground plug on the inlet faces the outside chassis wall.
- The AC inlet snaps securely into place.

7. Securely plug the AC wires into the appropriate AC inlet blade terminals.
There are three wires: live (black/brown), neutral (white/blue), and ground (green/yellow). The live wire plugs above the neutral wire; the ground wire always plugs into the single row slot that is closest to the chassis wall.
8. Place the attached ring terminal on the end of the ground wire over the stud on the chassis floor, and then secure it into place with the supplied nut.
9. Reinstall the cover on the frame, and then return power to the unit.

You can find detailed installation instructions in “Appendix C: Servicing Instructions” in the *X75HD/X75SD Multiple Path Converters and Frame Synchronizers Installation and Operation Manual*.

Connecting Analog Audio

Figure 3 shows the connections you may need to make for your analog audio input and output.

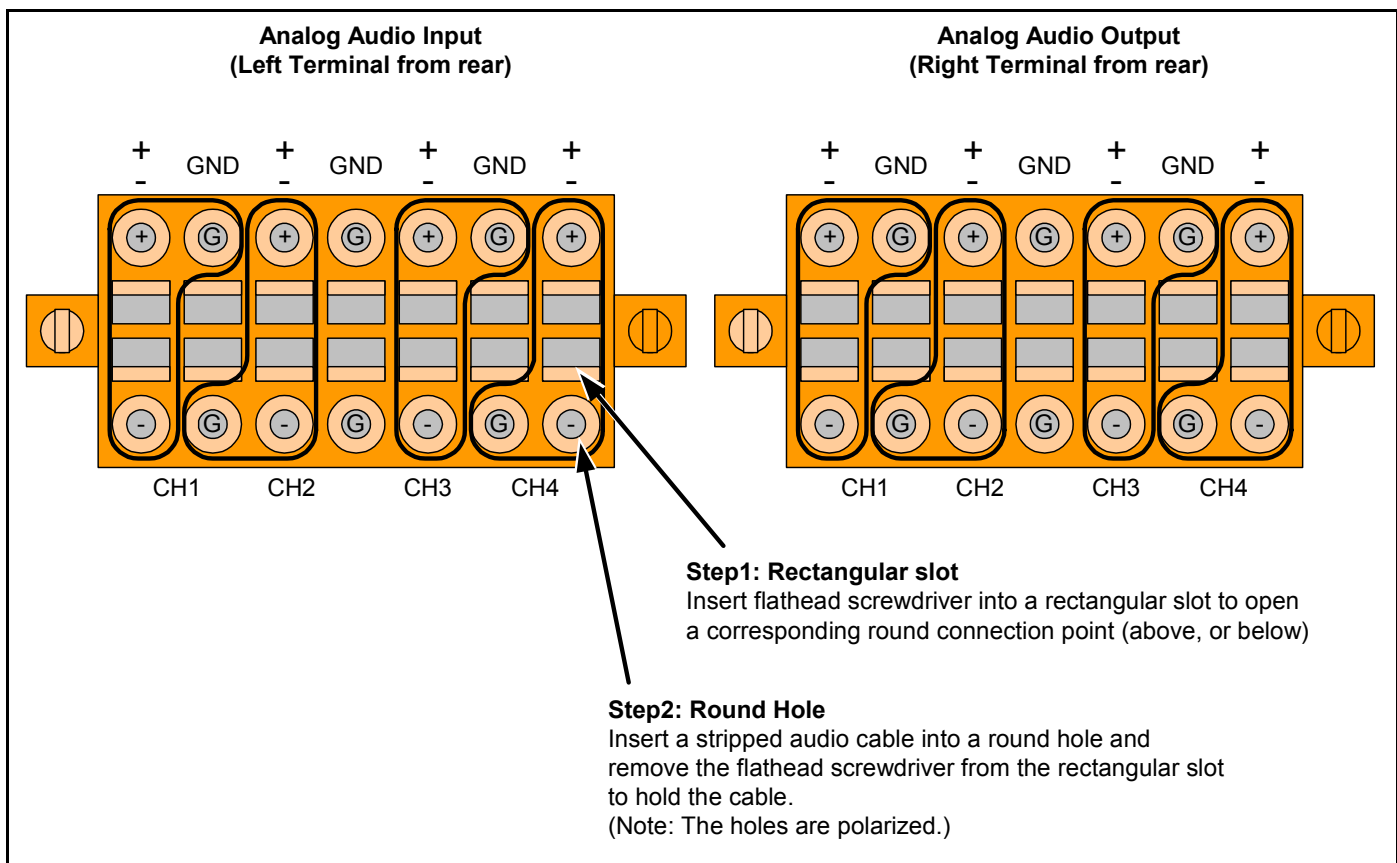


Figure 3. Analog Audio Input and Output Terminal Blocks