

Overview

S-Video Distribution Amplifier (DA) boards are available as either standalone distribution amplifier modules (left in FIG. 1) or as distribution amplifier accessory boards for an AF-10 (right in FIG. 1). The S-Video DA Module has one input and four outputs for a 1:4 distribution. S-Video DA boards have five S-Video connectors; either one input and four outputs that are paired with the 1:4 board to create a 1:9 distribution amplifier.

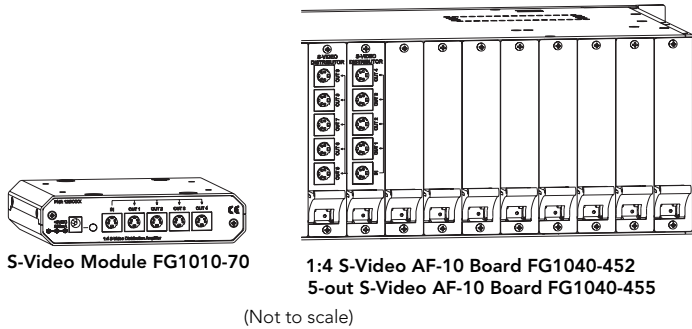


FIG. 1 S-Video DA Module & AF-10 Boards

Product Specifications

General	
Approvals	CE, UL, cUL
Power Consumption (max.) – Module	+9 VDC @ 500 mV
Power Connector – Module	2.1 mm DC power jack
Power – AF-10	100 - 240 VAC single phase, 50 - 60 Hz
Operational Temperature	32° - 110° F (0° - 43° C)
Humidity	0 to 90% non-condensing
Dimensions – Module	5.22 in. (13.26 cm) depth 5.82 in. (14.78 cm) width 1.42 in. (3.61 cm) height w/out feet
Weight – Module	Approx. 1.5 lb. (0.68 kg)
Connector Options	S-Video, Locking S-Video

S-Video Specifications		
Frequency Response		+/- 3 dB, 50 MHz or better +/- 1 dB, 15 MHz or better
Signal to Noise Ratio (SNR)	V _{in} = 0.7 V, 100% IRE	-45 dB
Level (max.)		
Input:		+/- 1.75 V
Output:		+/- 1.75 V
Impedance		
Input:		75 ohms
Output:		75 ohms
DC Offset Out (max.)	Measured with 0 V on input	+/- 20 mV

Product specifications below are specifically for AMX AutoPatch S-Video cables.

	Video Bandwidth Specifications	
	Module FG1010-70 1:4 Board FG1040-452	5-out Board FG1040-455
+/-3 dB for 100 ft. (30.48 m)	10 MHz	10 MHz
+/-3 dB for 50 ft. (15.24 m)	150 MHz	100 MHz
+/-3 dB for 25 ft. (7.62 m)	200 MHz	125 MHz
+/-3 dB for 12 ft. (3.66 m)	100 MHz	50 MHz
+/-3 dB for 6 ft. (1.83 m)	100 MHz	50 MHz
+/-3 dB for 3 ft. (.91 m)	75 MHz	50 MHz

Installation

S-Video 1:4 Distribution Amplifier Module

Module Mounting Options

Desktop – Attach the rubber feet (included) on the bottom of the module.

Rack Trays & Mounting Brackets – contact your AMX representative for details.

Module System Setup

The S-Video DA Module has five S-Video connectors, one input and four outputs.

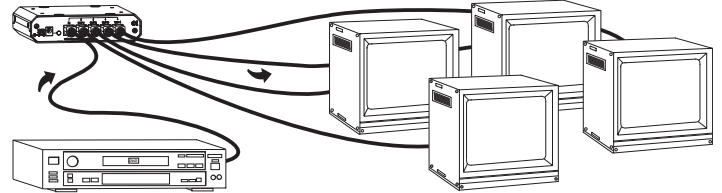


FIG. 2 Typical setup using S-Video DA Module

AF-10 with 1:4 & 5-out S-Video Distribution Amplifier Boards

Board System Set-up

S-Video DA 1:4 and 5-out boards are available for the AMX AutoPatch AF-10 Accessory Card Frame. The 1:4 board is built to use alone or in conjunction with the 5-out board. When using both, these boards must be installed in adjoining slot pairs, with the 5-out board to the left of the 1:4 board for a 1:9 distribution.

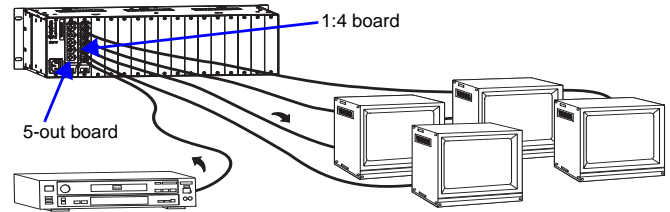


FIG. 3 Typical setup using S-Video DA boards in an AF-10

Attaching Cables

Note: AMX AutoPatch S-Video cables lock onto S-Video connectors. Standard S-Video cables may be used, but will not lock.

To attach a locking S-Video connector:

1. Hold the connector at a slight angle to the right while pushing in or pull back on the connector housing while pushing the connector in.

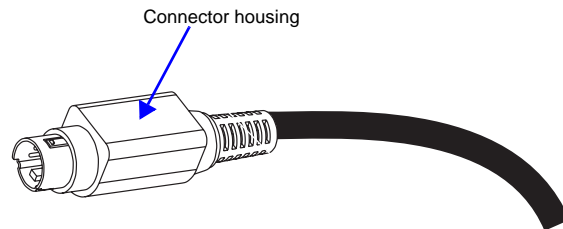


FIG. 4 Pull back on connector housing while pushing in

To attach cables to a module:

1. Fasten the locking S-Video plugs from the source and destination devices onto the S-Video connectors (FIG. 4 previous page).
2. Plug the power cord into the power jack on the module and the power source (FIG. 5).

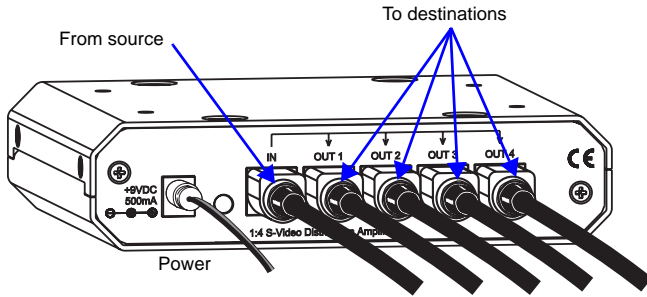


FIG. 5 Attach power cord and S-Video connectors

3. Apply power to the source and destination devices.

To attach cables to an AF-10:

1. Fasten the locking S-Video plugs from the source and destination devices onto the S-Video connectors (FIG. 4 previous page).

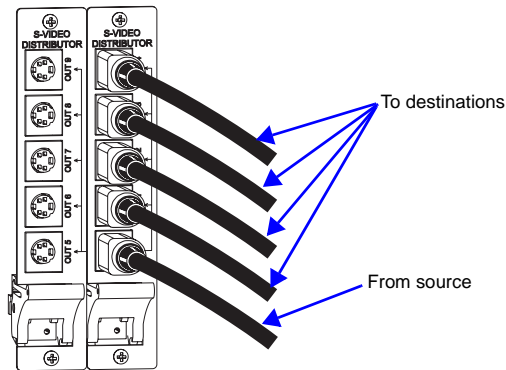


FIG. 6 Attach S-Video cables onto connectors

2. Plug the power cord into the power jack on the rear of the AF-10 and the power source.
3. Turn on power source. The Power Indicator on the front of the AF-10 illuminates.

S-Video Board Placement

Note: For instructions on installing additional boards, see the AF-10 Quick Start Guide.

- **1:4 boards only** – may be placed in AF-10 in any available slot
- **1:4 and 5-out boards** – place in AF-10 in alternating board slots according to the pattern below

To place S-Video 1:4 & 5-out boards in an AF-10:

Install the 1:4 board in an even numbered board slot (counting from left to right). Install the 5-out board in the adjoining slot to the left of the 1:4 board. The input on the 1:4 board will then route signals to its own four outputs plus the five outputs on the 5-out board for a total of nine outputs.

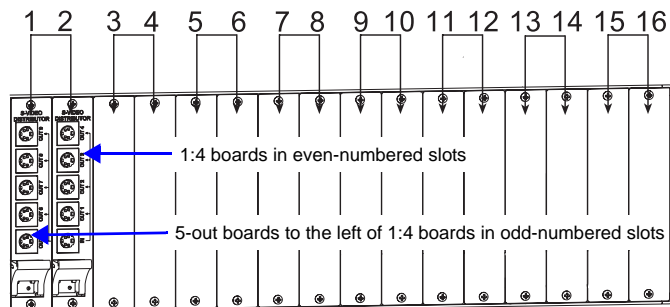


FIG. 7 Install 1:4 boards & 5-out boards in adjoining slot pairs

For full warranty information, refer to www.amx.com

7/07

©2007 AMX. All rights reserved. AMX and the AMX logo are registered trademarks of AMX. AMX reserves the right to alter specifications without notice at any time.

3000 RESEARCH DRIVE, RICHARDSON, TX 75082 • 800.222.0193 • fax 469.624.7153 • technical support 800.932.6993 • www.amx.com

93-40-819 REV: A1

