

### Overview

S-Video Distribution Amplifier (DA) boards are available as either standalone distribution amplifier modules (top in FIG. 1) or as distribution amplifier accessory boards for an AF-10 (bottom 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 or five outputs that are paired with the 1:4 board to create a 1:9 distribution amplifier. This guide contains complete information for the module and boards.

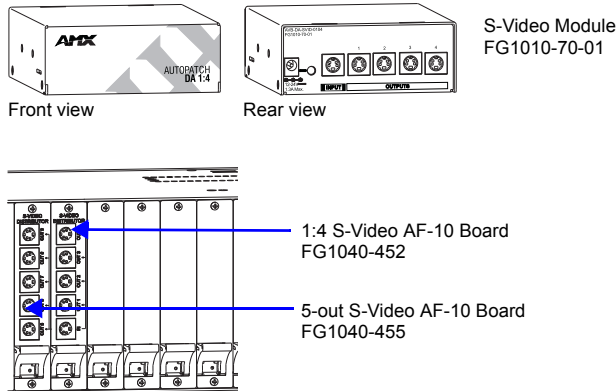


FIG. 1 S-Video DA Module and AF-10 Boards

### Specifications

General Specifications	
Approvals	CE, UL, cUL
Power – Module* Consumption (max.) Connector	+12 VDC to +24 VDC @ 1.3 A 2.1 mm DC power jack
Thermal Dissipation (max.)	15 BTU/hr.
Power – AF-10	100 to 240 VAC single phase, 50 to 60 Hz
Operational Temperature	32° to 110° F (0° to 43° C)
Humidity	0 to 90% non-condensing
Dimensions – Module	5.15 in. (13.08 cm) depth 4.33 in. (11.00 cm) width 1.66 in. (4.22 cm) height
Weight – Module	Approx. 1.3 lb. (0.6 kg)
Connector Options	S-Video, Locking S-Video

\* S-Video DA Modules use a power supply that is provided with the unit.

S-Video Specifications		
Frequency Response		± 3 dB, 50 MHz or better ± 1 dB, 15 MHz or better
Signal to Noise Ratio (SNR)	Vin = 0.7 V, 100 IRE	>65 dB
Input Level (max.)		± 1.75 V
Input Impedance		75 ohms
Output Level (max.)		± 1.75 V
Output Impedance		75 ohms
DC Offset Out (max.)	Measured with 0 V on input	± 20 mV

Video Bandwidth Specifications (AMX AutoPatch S-Video cables)		
	Module FG1010-70-01 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

#### Attaching AMX AutoPatch Locking S-Video 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.

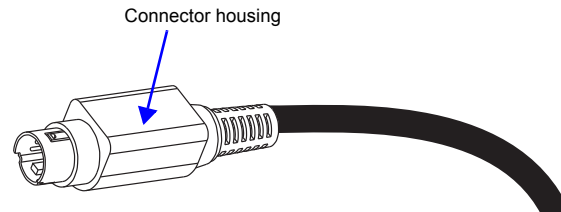


FIG. 2 Pull back on connector housing while pushing in

### S-Video 1:4 Distribution Amplifier Module

#### Module Mounting Options

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

#### Module System Setup

A typical setup using the S-Video DA Module is illustrated in FIG. 3. The Module has five S-Video connectors, one input and four outputs.

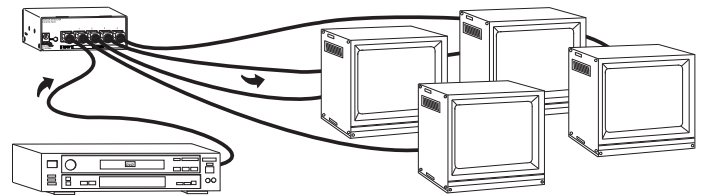


FIG. 3 Typical setup using S-Video DA Module

### Module Cabling

#### To attach cables to a module:

1. Insert the locking S-Video plugs from the source and destination devices onto the S-Video connectors (FIG. 4, reference FIG. 2).
2. Plug the desktop power supply into the power jack on the module and into an AC external power source (FIG. 4).  
If you are providing the power supply – Plug the power cord from a UL (or equivalent) listed power supply into the power jack on the module (FIG. 4). The electrical ratings must meet those indicated in the specifications table.

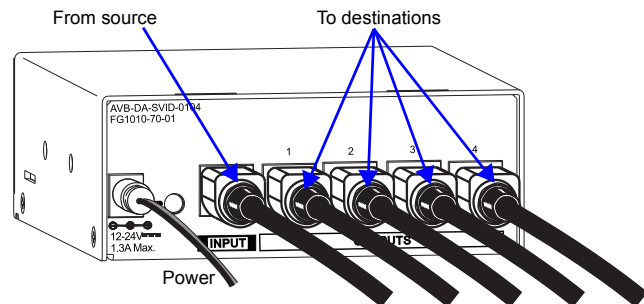


FIG. 4 Attach power cord and S-Video connectors

3. Apply power to the source and destination devices.

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

### AF-10 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.

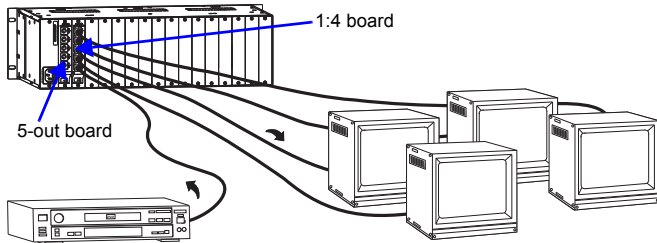


FIG. 5 Typical setup using S-Video DA boards in an AF-10

### AF-10 Board Placement

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

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

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

1. Install the 1:4 board in an even numbered board slot (counting from left to right).
2. 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. 6).

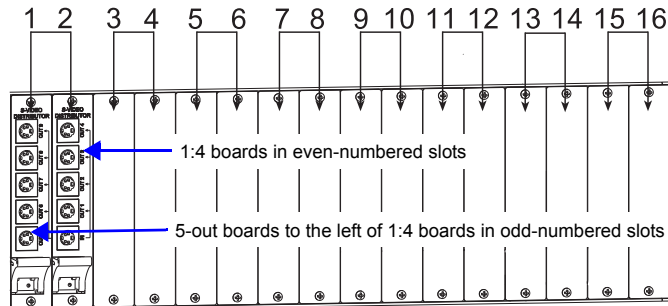


FIG. 6 Install 1:4 boards and 5-out boards in adjoining slot pairs

### AF-10 Board Cabling

#### To attach cables to an AF-10:

1. Insert the locking S-Video plugs from the source and destination devices onto the S-Video connectors (FIG. 7, reference FIG. 2 previous page).

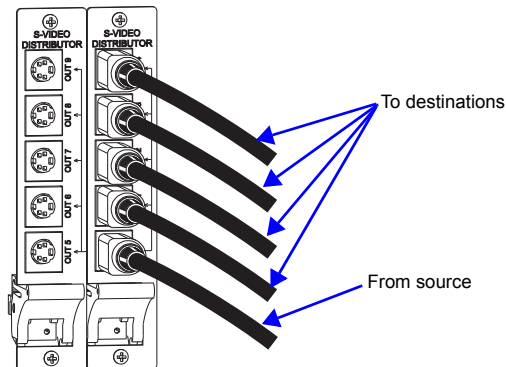


FIG. 7 Attach S-Video cables onto connectors

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

For full warranty information, refer to [www.amx.com](http://www.amx.com)

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