

### Overview

Component Video Distribution Amplifier Driver (DAD) Modules are available with BNC or RCA connectors. The modules have either one input and two outputs for 1:2 distribution or one input and six outputs for 1:6 distribution of component video signals. The single component video input is distributed to two or six outputs over standard cable runs of up to 500 ft. (152.4 m) for YPbPr and up to 250 ft. (76.20 m) for RGB with no additional equipment required. Each output can be independently adjusted for gain and peaking to ensure the proper amount of compensation is provided for each cable run. This guide contains complete information for this product.

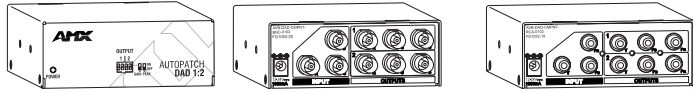
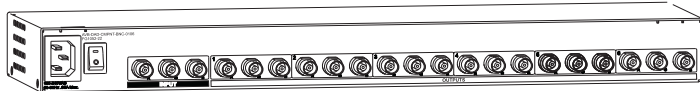
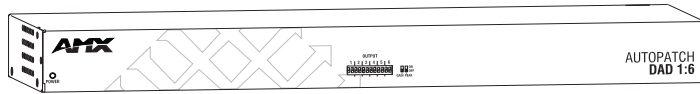
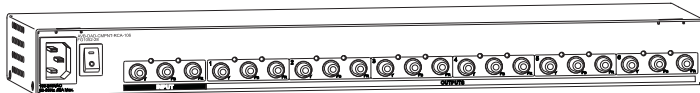


FIG. 1 Component Video DADs, 1:2 models



RGB (BNC) Model FG1052-28



YPbPr (RCA) Model FG1052-22

FIG. 2 Component Video DADs, 1:6 models

### Product Specifications

General Specifications	
Approvals	Pending
Power* 1:2 model	
Consumption (max.)	+12 VDC to +24 VDC, 1A
Consumption (typical)	+12 VDC, 400 mA
Connector	2.1 mm DC power jack
Power 1:6 model	100 to 240 VAC single phase, 50 - 60 Hz
Consumption (max.)	120 VAC, 650 mA
Consumption (typical)	120 VAC, 100 mA
Operational Temperature	32° to 110° F (0° to 43° C)
Humidity	0 to 90% non-condensing
Dimensions 1:2 model	5.15 in. (13.08 cm) depth 4.35 in. (10.92 cm) width 1.66 in. (4.22 cm) height without feet, 1 RU on rack shelf Approximately 1.3 lb. (0.6 kg) weight
Dimensions 1:6 model	5.15 in. (13.08 cm) depth 17.40 in. (44.20 cm) width without rack ears 19.00 in. (48.26 cm) with ears 1.72 in. (4.37 cm) 1 RU height without feet Approximately 4.5 lb. (2 kg) weight
Connector Type	BNC, RCA

\* The Component Video 1:2 DAD module uses a power supply that is provided with the unit.

RGB & YPbPr Signal Specifications		
Frequency Response		±3 dB, 450 MHz or better
Signal to Noise Ratio	V <sub>in</sub> = 0.7 V, 100% IRE	>65 dB
Level	Input (max.) Output (max.)	±1.75 V ±1.75 V
Impedance	Input Output	75 ohms 75 ohms
Return Loss		-45 dB @ 5 MHz
Connector Type		BNC, RCA

RGB Gain & Peaking** Specifications	
Gain OFF ON	Unity +0.85 dB
Peaking OFF ON	No peaking 8 dB @ 150 MHz 8 dB @ 300 MHz
Cable Length (max.)	250 ft. (76.20 m)

YPbPr Gain & Peaking** Specifications	
Gain OFF ON	Unity +0.85 dB
Peaking OFF ON	No peaking 9 dB @ 37.5 MHz 9 dB @ 80 MHz
Cable Length (max.)	500 ft. (152.4 m)

\*\* Gain and Peaking are independent switches that allow the user to turn on or off the gain and peaking.

### Installation

#### Mounting Options

##### 1:2 Models

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

**V Style Rack Mounting** – Mounting brackets and rack trays are available for these versatile modules (contact your AMX representative).

##### 1:6 Models

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

#### Rack Mounting

To rack mount a 1:6 module:

1. Remove one screw from each side of DAD (FIG. 3) Do not reuse for rack ear.
2. Attach the rack ears as shown in FIG. 3 (screws provided).

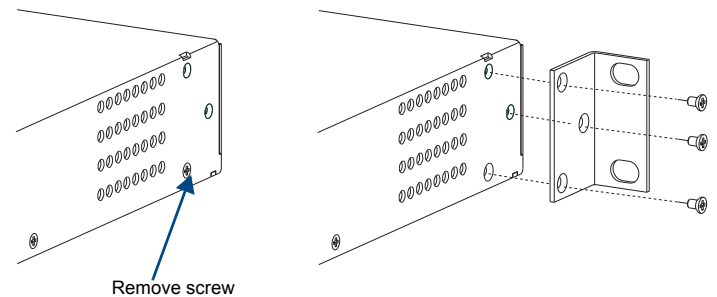


FIG. 3 Remove screw (do not re-use) & attach rack ears

3. Place the module in a standard EIA 19 in. (48.26 cm) rack and secure it to rack with screws.

## Typical Setup

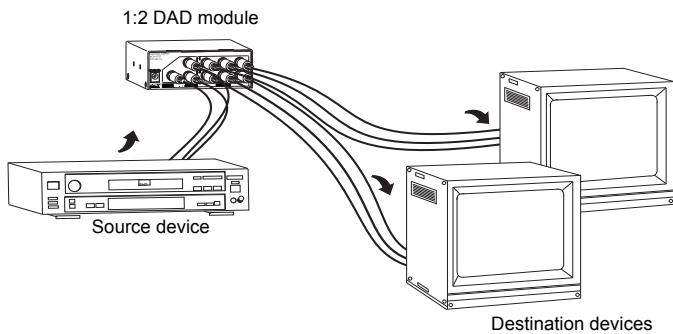


FIG. 4 Typical system setup using 1:2 DA

## Attaching Input & Output Cables

### To attach connectors (1:2 models):

1. Fasten the BNC or RCA connectors from source and destination devices onto BNC or RCA connectors on module (FIG. 5 shows RCA connectors).
2. Plug the desktop power supply into the power jack on the module and into an external AC power source.

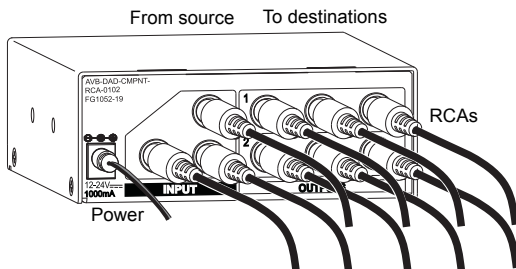


FIG. 5 Attach input and output connectors (model with RCA connectors shown)

3. Apply power to the source and destination devices.
4. Adjust DIP switches on front if necessary (FIG. 7 in right column).

**Note:** The power indicator LED is on the module's front.

### To attach connectors (1:6 models):

1. Fasten the BNC or RCA connectors from source and destination devices onto BNC or RCA connectors on module (FIG. 6 shows BNC connectors).
2. Attach the power cord into the power receptacle on the module and into an external AC power source.

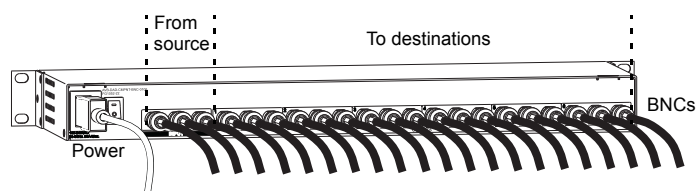


FIG. 6 Attach input and output connectors (model with BNC connectors shown)

3. Press the "I" side of the power switch.
4. Apply power to the source and destination devices.

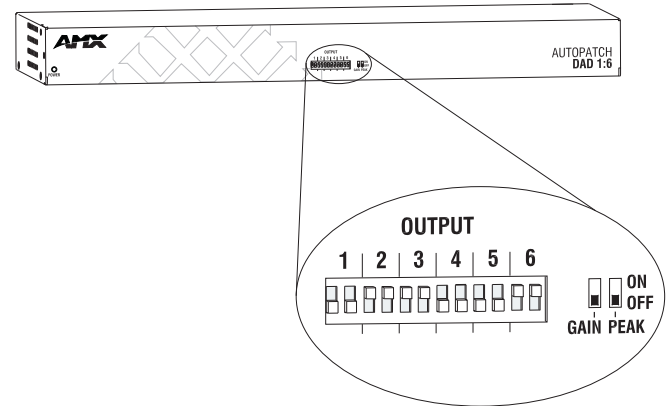
**Note:** The power indicator LED is on the module's front.

## Front Panel DIP Switches

Each DIP switch pair controls the output gain and peak of the same-numbered output signal. The default setting is both switches "Off" (down, FIG. 7), which represents unity gain and no peaking. The gain and peak adjustments can compensate for long cable runs. To increase brightness of a destination's video, set the gain DIP switch to "On". To sharpen a destination's video, set the peak DIP switch to "On".

### To adjust DIP switches:

1. Using a small screwdriver or paper clip, flip the toggles on the DIP switches up (see table below FIG. 7 for settings).



Example:

Outputs 1, 4 & 5 are set to OFF / unity  
Outputs 2, 3, & 6 are set to ON for gain & peaking

FIG. 7 Adjust DIP switches for gain and peaking

Flip either or both switches "ON" depending on the length of the cable run.

DIP Switch Settings – RGB (BNC)			
	OFF (default)	ON	Result
Gain	Unity gain	+0.85 dB	Brightens image
Peaking	No peaking	8 dB @ 150 MHz 8 dB @ 300 MHz	Sharpens image

DIP Switch Settings – YPbPr (RCA)			
	OFF (default)	ON	Result
Gain	Unity gain	+0.85 dB	Brightens image
Peaking	No peaking	9 dB @ 37.5 MHz 9 dB @ 80 MHz	Sharpens image