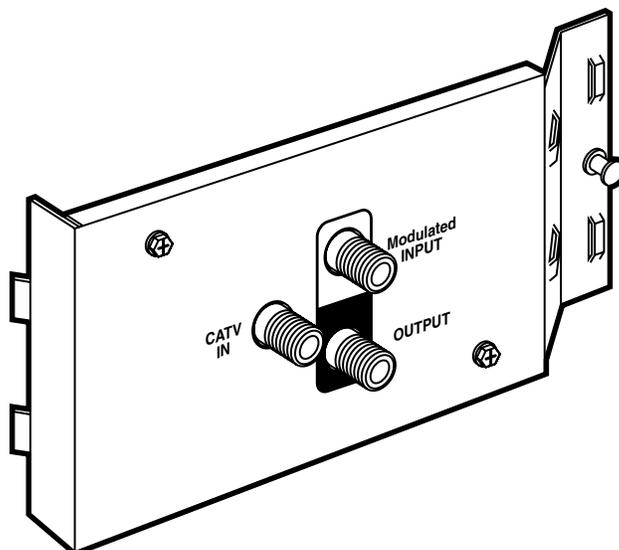




Pure Home Networking Video Combiner, Splitter, and Booster Modules



1. Specifications

Connectors: JHN2046A: (3) F-type;
JHN2048A: (9) F-type;
JHN2060A: (3) F-type

Size: JHN2046A, JHN2048A: 2.9"H x 6.3"W
(7.4 x 16 cm);
JHN2060A: 5.8"H x 6.3"W (14.7 x 16 cm)

Weight: JHN2046A: 0.5 lb. (0.2 kg);
JHN2048A: 0.7 lb. (0.3 kg);
JHN2060A: 2.8 lb. (1.3 kg)

2. Overview

The Pure Home Networking Video/Audio Modules should be installed in one of the Pure Home Networking Boxes (JHN1014A, JHN1020A, JHN1030A, or JHN1040A).

The Pure Home Networking 1 x 2-Port Video Combiner (Passive) Module (JHN2046A) has three F-type connectors and operates at frequencies up to 1 GHz. This module integrates inboard and outbound video signals and an auxiliary signal such as digital cable. See Figure 2-1.

CUSTOMER SUPPORT INFORMATION

Order toll-free in the U.S.: Call 877-877-BBOX (outside U.S. call 724-746-5500)
FREE technical support 24 hours a day, 7 days a week: Call 724-746-5500 or fax 724-746-0746
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
Web site: www.blackbox.com • E-mail: info@blackbox.com

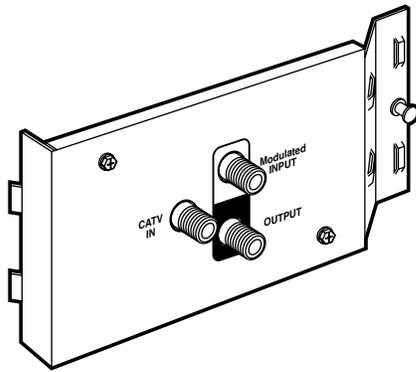


Figure 2-1. 1 x 2-Port Video Combiner (Passive) Module (JHN2046A).

The Pure Home Networking 1 x 8-Port Bidirectional Video CATV Splitter (Passive) Module's (JHN2048A) single input port accepts modulated signals from eight output video devices (VCRs, TVs, DVDs, etc). It has nine F-type connectors and supports 1- and 2-GHz signals. See Figure 2-2.

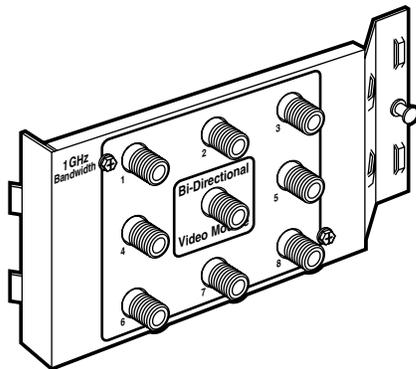


Figure 2-2. 1 x 8-Port Bidirectional Video CATV Splitter (Passive) Module (JHN2048A).

The Pure Home Networking Video Signal Booster, 1-Port Module (JHN2060A) amplifies video, digital cable, and other auxiliary signals up to 25 dB over coax cable. It has three F-type connectors and includes a ± 12 VDC power adapter. See Figure 2-3.

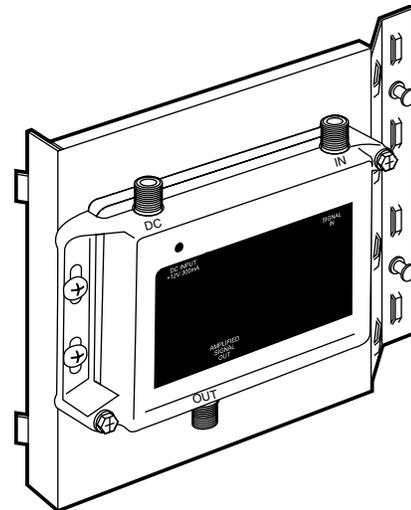


Figure 2-3. Video Signal Booster, 1-Port Module (JHN2060A).

3. Installation

3.1 Tools You'll Need

- Coaxial wire strippers
- Coaxial connectors
- Coaxial crimpers
- Wire cutters

3.2 Cable Handling Guidelines

- Do not route data cables through the same cable holes as the AC power cables.
- For safety, separate all data cables from parallel AC power lines by at least 6 inches (15.2 cm) whenever possible. Avoid kinking the cable.
- Do not attach cable tie-downs too tightly. The cable-fastening hardware should not compress the cable sheath.
- Do not bend the cable sharply. Place the cables properly in the cable management after passing them through the holes, since the edges of the hole can compress or damage the cable sheath.
- When installing an individual module in the Pure Home Networking Box, place it above or below the interfacing module (if possible). This will eliminate excessive cable crossing.

PURE HOME NETWORKING VIDEO COMBINER, SPLITTER, AND BOOSTER MODULES

- For your safety, do not use this or any electrical product near water (unless it is specifically designed for wet areas). Do not install wiring during thunder and lightning storms.
- Use caution when handling or installing any computer, telephone, video, or electrical devices.

3.3 Installing a Module in the Pure Home Networking Box

1. Determine the area for installation.
2. Position the metal tabs on the left side of the module at a 45-degree angle and slide them into the rail holes on the Pure Home Networking Box.
3. Insert the metal tabs on the right side of the module into the rail.
4. Press the button to fasten the module to the Pure Home Networking Box.

3.4 Removing a Module from the Pure Home Networking Box

1. Press the button and hold it in while pulling the module from the Pure Home Networking Box.
2. Swing the module out.

3.5 Module Configuration

There are two basic types of video configurations, single-input and multiple-input. Which one you use depends on your individual needs.

3.5.1 SINGLE-INPUT CONFIGURATION

This configuration simply takes a single inbound video signal and distributes it out to eight individual outlets. It's perfect for cable TV or video distribution.

You'll need the 1 x 8-Port Bidirectional Video CATV Splitter (Passive) Module (JHN2048A) only. See Figure 3-1.

1. Take the incoming video line and connect it to the center post.
2. Connect the outbound connectors to the individual outlets. (The module supports up to eight outlets.)
3. Join the cables neatly together with cable ties using the cable management channel anchoring ports.

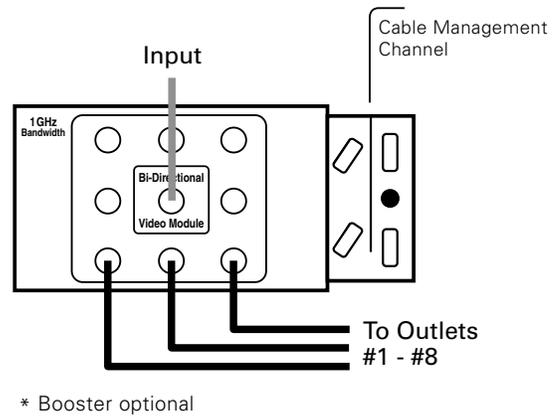


Figure 3-1. Single-input setup.

3.5.2 MULTIPLE-INPUT CONFIGURATION

This configuration uses multiple modulated input devices such as DVD players, VCRs, or surveillance cameras, combining them with cable TV and/or cable modems, and distributing them to eight individual outlets.

You will be using a 1 x 2-Port Video Combiner (Passive) Module (JHN2046A), a 1 x 8-Port Bidirectional Video CATV Splitter (Passive) Module (JHN2048A), and a Video Signal Booster, 1-Port Module (JHN2060A). You will also need a signal modulator (call Tech Support for details).

For best results, start at the top and work down.

1. Obtain a multi-input modulator (call Tech Support for details). The modulator allows you to assign television channels to individual devices.
2. Next, install the 1 x 2-Port Video Combiner (Passive) Module. Connect the output cable from the modulator to the modulated input connector on the combiner.
3. Connect digital or analog cable to the cable TV post on the video combiner.

CAUTION

Do not plug the cable TV or Internet cable into the modulated port.

4. Install the Video Signal Booster, 1-Port Module by connecting a cable from the video combiner output post to the booster input.

5. Install the 1 x 8-Port Bidirectional Video CATV Splitter (Passive) Module. Connect a coaxial cable from the video booster module's output post to the bidirectional video module's center post.
6. Connect posts #1-8 with cables leading to the room outlets (up to eight outlets).
7. Join the cables neatly together with cable ties using the cable management channel anchoring points.

Figure 3-2 shows a sample application.

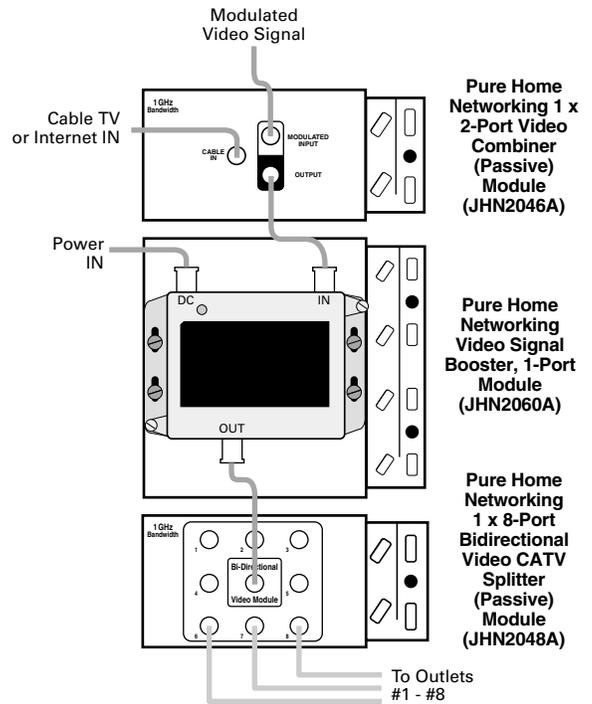


Figure 3-2. Typical multiple-input setup.

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