

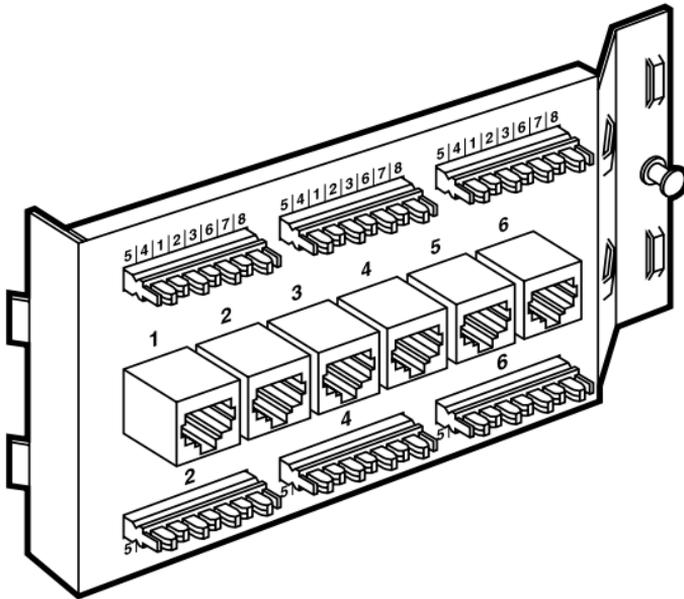


© Copyright 2003. Black Box Corporation. All rights reserved.

1000 Park Drive • Lawrence, PA 15055-1018 • 724-746-5500 • Fax 724-746-0746



SOHO 6-Port CAT5e 568B Data Module



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

**FEDERAL COMMUNICATIONS COMMISSION
AND
INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENTS**

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

TRADEMARKS USED IN THIS MANUAL

Any trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

Contents

Chapter	Page
1. Specifications	4
2. Introduction	5
3. Installation	6
3.1 Cable Handling Guidelines	6
3.2 Installing a Module into the SOHO Network Box	7
3.3 Removing a Module from the SOHO Network Box	8
3.4 Connecting the Cables to the Data Module	8
4. Troubleshooting	12
4.1 Calling Black Box	12
4.2 Shipping and Packaging	13

1. Specifications

Connectors: (6) 4-pair 110-type termination blocks;
(6) RJ-45 for data

Size: 3"H x 6.3"W (7.6 x 16 cm)

Weight: 0.5 lb. (0.2 kg)

2. Introduction

The SOHO 6-Port CAT5e 568B Data Module should be installed in one of the SOHO Network Boxes (JPM1110A, JPM1111A, or JPM1112A). It provides six RJ-45 data ports to give you one CAT5e termination point for up to six rooms.

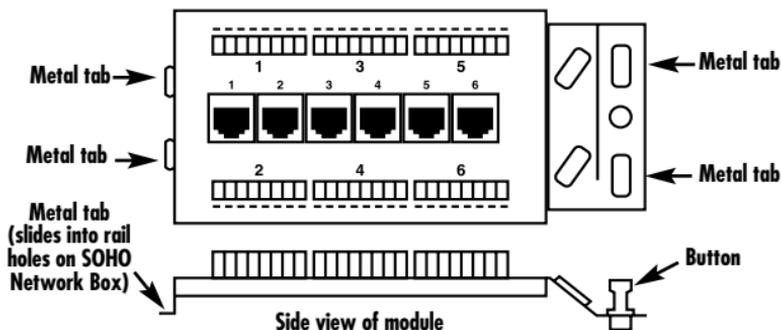


Figure 2-1. 6-Port CAT5e 568B Data Module.

3. Installation

3.1 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. Be especially careful to place the cables properly in the cable management after passing them through a hole, since the edges of the hole can compress or even damage the cable sheath.
- When installing an individual module in the SOHO Network Box, place it above or below the interfacing module (if possible). This will eliminate excessive cable crossing.

- Follow all warnings on the products.
- For your safety, do not use this or any electrical product near water (unless 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.

3.2 Installing a Module in the SOHO Network 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 SOHO Network Box (see Figure 2-1).
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 SOHO Network Box.

NOTE

When mounting an individual module in the SOHO Network Box, install it above or below the interfacing module (when possible). This will eliminate excessive cable crossing.

3.3 Removing a Module from the SOHO Network Box

1. Press the button and hold it in while pulling the module from the SOHO Network Box.
2. Swing the module out.

3.4 Connecting the Cables to the Data Module

Run each cable or drop to the designated punchdown termination point.

Keep the following in mind:

1. The punchdown blocks are labeled to indicate where you may terminate each line (up to 4 lines).
2. Using the appropriate cable stripping tool, strip approximately 2" (5.1 cm) of the cable jacket.
3. Separate the pairs according to color (blue-white/blue, orange-white/orange, green-white/green, and brown-white/brown).

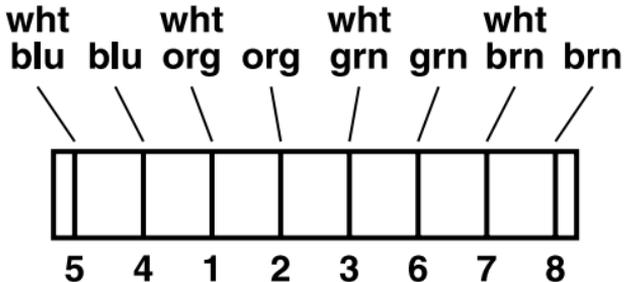


Figure 3-1. Category 5 T568B (8-wire).

- To terminate the cable, place each wire into the insulation displacement contacts (IDC) by matching the wire color with the applicable colors on the jack (568B). See Figure 3-1.

NOTE

We recommend untwisting the pairs no more than 0.5" (1.3 cm) from the termination point.

- If you are using a 110-type punchdown tool (see Figure 3-2), position the tool over each wire with the cutting blade facing outside of the IDC and punch down firmly.

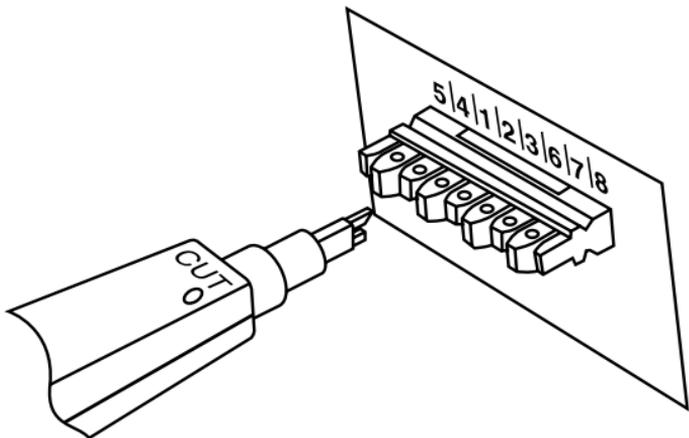


Figure 3-2. Example of module termination.

6. Repeat this process with each room or drop.

NOTE

Avoid pinching or twisting the cable. Use only compatible Category 5e rated cables. We recommend at least a 1" (2.5 cm) bend radius for all cables.

Figure 3-3 illustrates a typical setup.

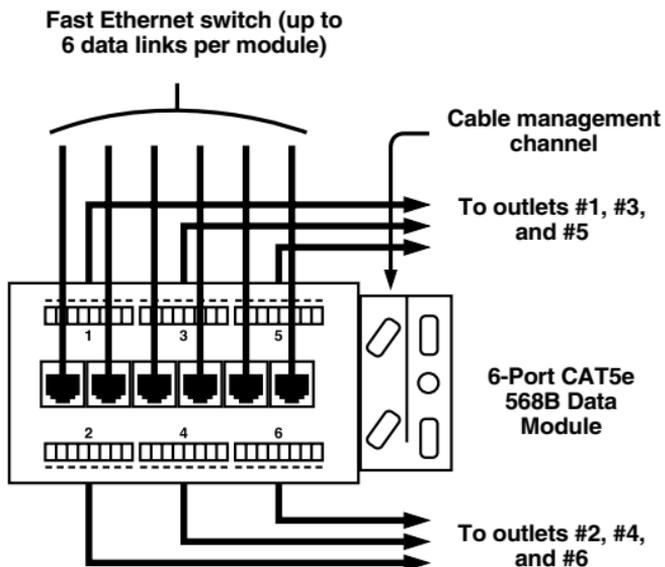


Figure 3-3. Typical setup.

NOTE

Data modules can be added as needed.

4. Troubleshooting

4.1 Calling Black Box

If you determine that your SOHO 6-Port CAT5e 568B Data Module is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box at 724-746-5500.

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.
- the components involved in the problem.
- any particular application that, when used, appears to create the problem or make it worse.

4.2 Shipping and Packaging

If you need to transport or ship your SOHO 6-Port CAT5e 568B Data Module:

- Package it carefully. We recommend that you use the original container.
- If you are shipping the module for repair, make sure you include everything that came in the original package. Before you ship, contact Black Box to get a Return Authorization (RA) number.