

5- and 8-Port Fast Ethernet Switches

Provides five or eight 10-/100-Mbps ports.

Use this palm-sized switch for small to medium workgroups.



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

Chapter 1: Specifications

1. Specifications

Buffer Memory — 512 K

Certifications — FCC Class B

Filtering/Forwarding Rates — 100-Mbps port: 148,880 pps,
10-Mbps port: 14,880 pps

MAC Address — LB005A: 2 K; LB008A: 1 K

Standards — IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, IEEE 802.3x flow control

Transmission Media — 10BASE-T CAT3, 4, 5 UTP/STP;
100BASE-TX CAT5 UTP/STP

Transmission Method — Store and forward

Connectors — LB005A: (5) RJ-45; LB008A: (8) RJ-45

Indicators — Per unit: (1) Power LED; Per port: LB005A: (5) LINK/ACT LEDs;
LB008A: (8) LINK/ACT LEDs

Temperature Tolerance — Operating: 32 to 131° F (0 to 55° C);
Storage: -4 to 194° F (-20 to +90° C)

Relative Humidity — 10 to 90%, non-condensing

Power — 5 VDC power supply,
Consumption: 6 watts (max.)

Size — 0.9"H x 4.1"W x 5.5"D (2.5 x 10.5 x 14 cm)

Weight — LB005A: 0.42 lb. (0.19 kg);
LB008A: 0.48 lb. (0.22 kg)

2. Overview

2.1 Introduction

The 5- and 8-Port Fast Ethernet Switches provide five or eight 10-/100-Mbps ports. Use this palm-sized switch to add devices to small- or medium-sized workgroups. Install it where space is limited to upgrade network capacity.

2.2 Features

- Autonegotiates 10-/100-Mbps speed and networking configurations.
- Palm-sized switch includes a plastic case.
- Autodetects full- and half-duplex modes for any port.
- Dedicated full-duplex 200-Mbps bandwidth.
- Uses store-and-forward switching methods.
- Conforms to IEEE 802.3x standard flow control for full-duplex and backpressure flow control for half-duplex.
- Features non-blocking and non-head-of-line-blocking full-wire-speed forwarding.
- Supports Auto MDI/MDI-X functions for any port.
- Smart plug-and-play.

2.3 What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or info@blackbox.com.

- 5- or 8-Port Fast Ethernet Switch (LB005A or LB008A)
- 5-VDC power adapter
- This user's manual

2.4 Hardware Description

Figures 2-1 through 2-4 show the front and back panels of the switches. Tables 2-1 and 2-2 describe their components.

Chapter 2: Overview

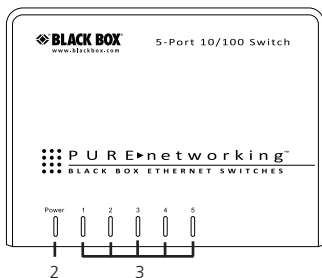


Figure 2-1. Top panel of the LB005A switch.

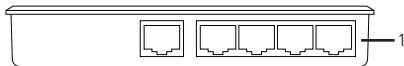


Figure 2-2. Back panel of the LB005A switch.

NOTE: The power connector (#4 in Table 2-1) is located on the switch's side panel (not shown).

Chapter 2: Overview

Table 2-1. LB005A switch components.

Number	Component	Description
1	(5) RJ-45 connectors	Link to 10/100BASE-T devices
2	(1) Power LED	Lights when power to the unit is on.
3	(5) Link/Act LEDs	On when a connection is present
		Off when there is no connection.
		Flashing when data is present.
4	(1) power connector	Connects to the 5-VDC external power supply.

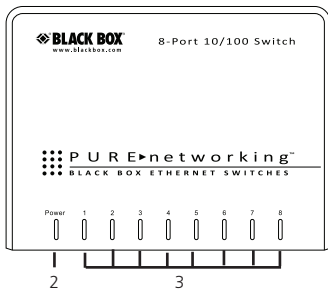


Figure 2-3. Top panel of the LB008A switch.

Chapter 2: Overview

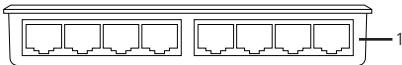


Figure 2-4. Back panel of the LB008A switch.

NOTE: The power connector (#4 in Table 2-2) is located on the switch's side panel (not shown).

Table 2-2. LB008A switch components.

Number	Component	Description
1	(8) RJ-45 connectors	Link to 10/100BASE-T devices
2	(1) Power LED	Lights when power to the unit is on.
3	(8) Link/Act LEDs	On when a connection is present
		Off when there is no connection.
		Flashing when data is present.
4	(1) power connector	Connects to the 5-VDC external power supply.

Chapter 3: Typical Applications

3. Typical Applications

Connect PCs, servers, and other network devices to the switch via a straight-through CAT5e or better patch cable.

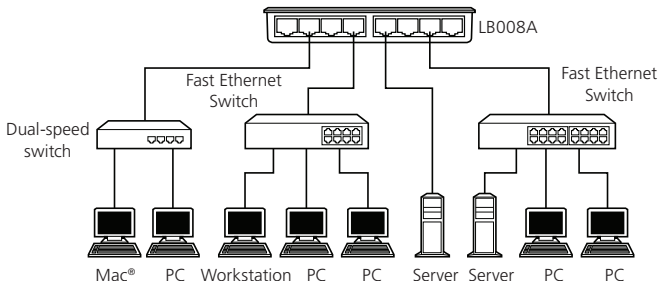


Figure 3-1. Configuration using the LB008A switch.

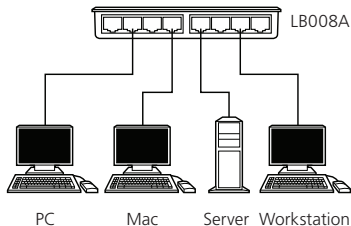


Figure 3-2. 10/100BASE-T devices connected to a LB008A switch.

FCC and IC RFI Statement

FEDERAL COMMUNICATIONS COMMISSION
and INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENTS

Class B Digital Device. This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or telephone reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

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

To meet FCC requirements, shielded cables and power cords are required to connect this device to a personal computer or other Class B certified device.

This digital apparatus does not exceed the Class B 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 B prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.



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LB005A, version 1

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