

Number in Figures 2-1 and 2-2	Component	Description
1	(1) Power LED	Lights when unit is powered on.
2	(4) LINK/ACT LEDs	ON when port is connected; OFF when port is not connected; Flashing when data is transmitted or received
3	(4) 1000M LEDs	ON when port is connected; OFF when port is not connected
4	(4) RJ-45 ports	Link to 10/100/1000-Mbps Ethernet devices or segments
5	(1) SFP slot	SFP module (LFP411–LFP414, LFP416) installs here

NOTE: SFP modules are ordered separately.

3. Rear Panel Uplink Connections

This switch provides automatic crossover detection for any port. This makes it easy to uplink to another switch without using a crossover cable.

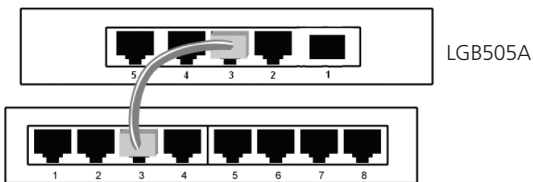


Figure 3-1. LGB505A uplinked to another switch.



Table 3-2. Compatible SFPs.

Code	Description
LFP411	SFP, 1.25-Gbps Fiber with Extended Diagnostics, 850-nm Multimode, LC, 300 m
LFP412	SFP, 1.25-Gbps Fiber with Extended Diagnostics, 1310-nm Multimode, LC, 2 km
LFP413	SFP, 1.25-Gbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, LC, 10 km
LFP414	SFP, 1.25-Gbps Fiber with Extended Diagnostics, 1310-nm Single-Mode, LC, 30 km
LFP416	SFP with SGMII Interface, 1.25 Gbps, Copper, 10/100/1000BASE-T, Extended Diagnostics

Customer Support Information

Order toll-free in the U.S.:
Call 877-877-BBOX
(outside U.S. call 1-724-746-5500)

FREE technical support
24 hours a day, 7 days a week:
Call 724-746-5500 or
fax 724-746-0746

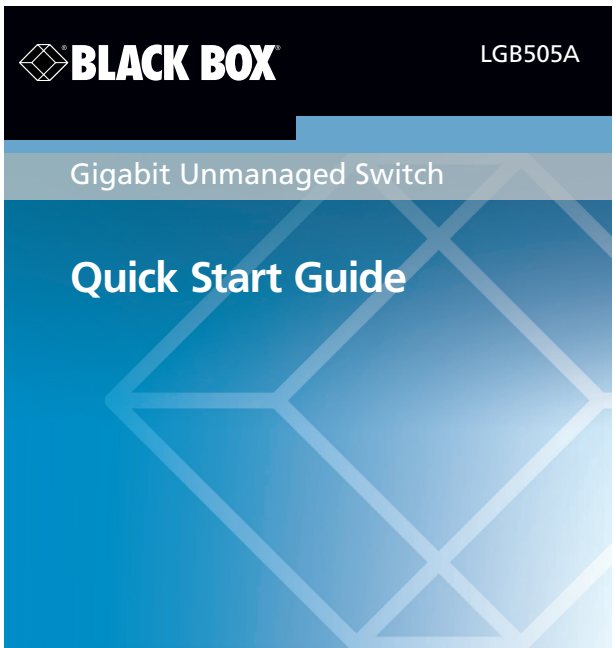
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lgb505a_qsg_rev1



1. Specifications

Features	
Filtering/ Forwarding Rate	1000 Mbps port – 1,488,000 pps; 100 Mbps port – 148,800 pps; 10 Mbps – 14,880 pps
Method	Store-and-Forward
Buffer Memory	1024 Kbits
Transmission Media	
Twisted-pair	10BASE-T: CAT3, 4, 5 UTP/STP 100BASE-TX: CAT5 UTP/STP 1000BASE-T: CAT5e UTP/STP
Fiber	1000BASE-FX: 50/125µm or 62.5/125µm Multi Mode Fiber optic cable; 9/125µm or 10/125µm Single Mode Fiber optic cable
Mechanical	
Indicators	Per port: (1) LINK/ACT, (1) 100M; Per unit: (1) PWR
Connectors	(4) RJ-45, (1) SFP slot
Dimensions	(2.4 x 13 x 7.7 cm)
Weight	(0.28 kg)
Power	
Power Supply	5-VDC, 2-A
Consumption	10 W max.
Environmental	
Temperature Tolerance	Operating: (0 to 40° C); Storage: (-20 to +90° C)
Humidity	10 to 90%, noncondensing

2. Overview

Approvals	
Certifications	FCC Class B, CE
Standards	IEEE 802.3x Flow control; IEEE 802.3 10BASE-T; IEEE 802.3u 100BASE-TX/FX; IEEE 802.3ab 1000BASE-T; IEEE 802.3z 1000BASE-X

2. Overview

2.1 Features

This switch provides (4)10/100/1000Mbps ports plus (1) SFP open slot. It was designed for easy installation and high performance in an environment where traffic is on the network and the number of users increases continuously.

Tiny enough to fit in the palm of your hand, this switch is ideal for small to medium workgroups. install it where space is limited to add devices to your network.

2.2 Features

- Provides (4) 10/100/1000Mbps ports plus (1) SFP slot.
- Autonegotiates speed.
- Works with MSA compliant SFPs.
- Metal case fits in the palm of your hand.
- Automatically learns networking configurations.
- Auto-detects full/half-duplex modes for any port.
- Delivers dedicated full-duplex 2000 Mbps bandwidth .
- Uses Store-and-Forward switching method.
- Supports IEEE 802.3x flow control for full-duplex and back-pressure flow control for half-duplex mode.

- Provides non-blocking & Non-head-of-line blocking full-wire-speed forwarding.
- Uses Auto-MDI/MDI-X function 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.

- (1) Gigabit Ethernet Switch
- (1) Power Adapter
- This Quick Installation Guide

2.4 Hardware Description

Figures 2-1 and 2-2 show the front and back panels of the switch. Table 2-1 describes its components.

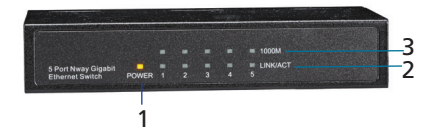


Figure 2-1. Front panel.

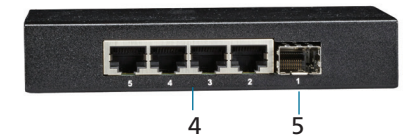


Figure 2-2. Back panel.