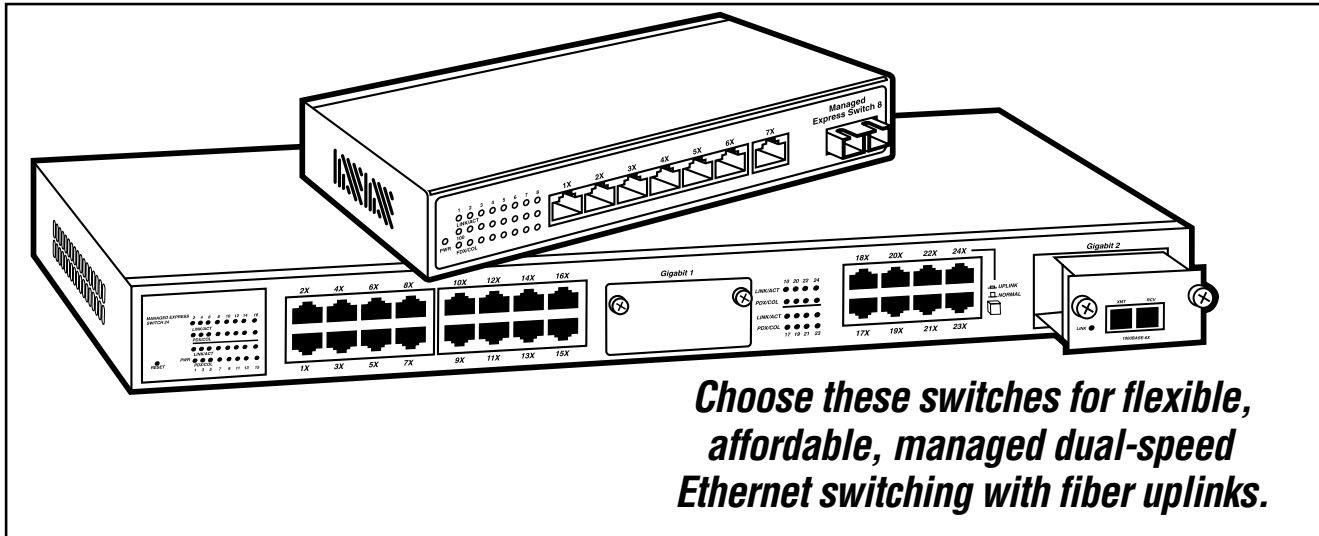




BLACK BOX[®]

NETWORK SERVICES

MANAGED EXPRESS ETHERNET SWITCHES



Key Features

- ▶ **Fixed-port switch has (7) 10-/100-Mbps RJ-45 ports plus (1) 100BASE-FX multimode or single-mode fiber port.**
- ▶ **Modular switch has (24) 10-/100-Mbps RJ-45 ports plus (2) slots for optional 100BASE-SX Gigabit fiber uplink modules.**
- ▶ **Spans distances up to 2 km (1.2 miles) multimode or 15 km (9.3 miles) single mode.**
- ▶ **Includes management support.**

Take advantage of the speed and distance of a 100-Mbps or 1000-Mbps fiber connection. The fixed-port and modular Managed Express Ethernet Switches combine managed switching with auto-negotiating Ethernet and Fast Ethernet ports and a fiber uplink.

Three fixed-port switch models are available. Each has (7) 10-/100-Mbps RJ-45 ports. The LB9030A also accommodates (1) 100-Mbps multimode SC port, and the LB9031A features (1) 100-Mbps multimode ST port. The LB9032A has (1) 100-Mbps single-mode SC port.

Use the RJ-45 ports for short-distance networking between offices, workgroups, and buildings. Connect via the fiber port for longer distances. The LB9030A and LB9031A support fiber connections up to 2 km (1.2 mi.) over multimode fiber.

The LB9032A handles distances up to 15 km (9.3 mi.) over single-mode fiber.

The modular switch (LBG1000A) has (24) 10-/100-Mbps ports and also features (2) slots for Gigabit uplinks. And it takes up only 1U of rack space! The power supply is built right into the unit.

Expand a network quickly with the (24) RJ-45 ports. To link the switch to your WAN, install the 1000BASE-SX fiber Gigabit module. The switch also supports 2K MAC addresses to transfer traffic across the network efficiently.

All of the switches support SNMP and RMON. In-band or out-of-band management is easy. Manage the switches across the network using any Web browser. Or manage them out-of-band via the RS-232 console port.

With the switch's 802.3p Priority Queuing, you can give

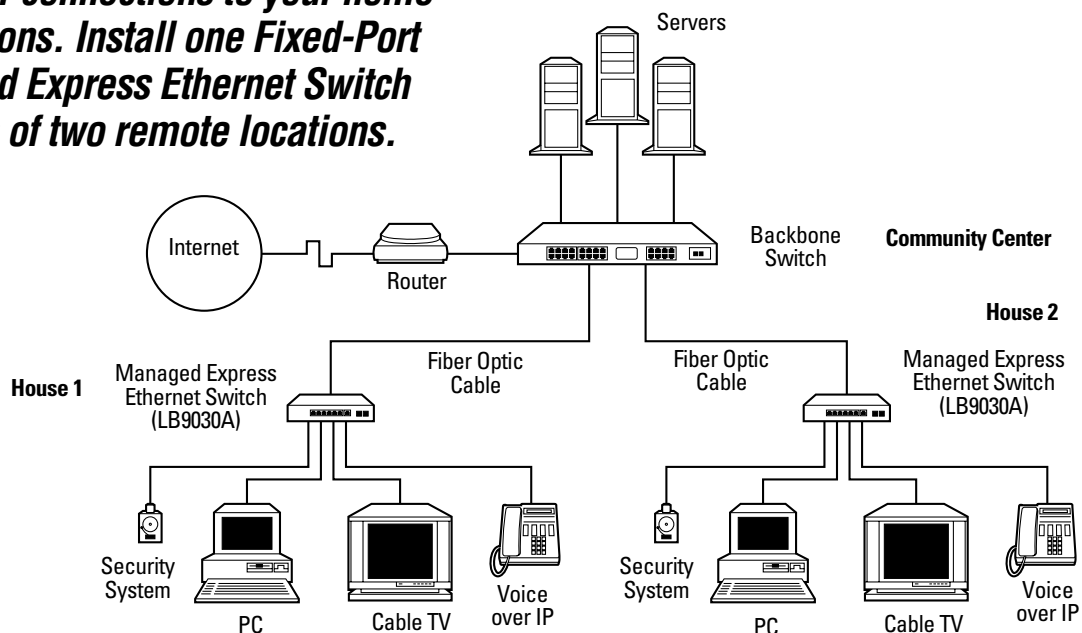
different priorities to different types of traffic. Traffic management, network segmentation, and network security also improve, thanks to 802.1Q Tagged VLAN support.

All of the switches support IP multicast traffic and video multicasting or broadcasting via IGMP snooping and Multicast Filtering. And the switches handle switch-to-switch trunking, port-mirroring, and monitoring for traffic snooping.

Wire-speed packet switching and packet-forwarding are also available with these switches. 802.3x flow control and backpressure prevent overflow of data frames, so you can count on better traffic management when the network is congested. Front-panel LEDs allow status checks for each port.

Two internal cooling fans provide ventilation. A 19" rackmount kit is also included.

Bring fiber connections to your home applications. Install one Fixed-Port Managed Express Ethernet Switch at each of two remote locations.



Specifications

Distance (Maximum):

RJ-45 ports: 100 m (328 ft.);
 100-Mbps multimode fiber port:
 2 km (1.2 mi.);
 100-Mbps single-mode fiber port:
 15 km (9.3 mi.);
 Gigabit fiber port: 220 m (721.8 ft.)

Forwarding Rate:

10 Mbps: 14,880 pps;
 100 Mbps: 148,800 pps;
 1000 Mbps: 1,488,000 pps

MAC Addresses:

LB9030A–LB9032A: 1 K;
 LBG1000A: 2 K

Standards: IEEE 802.3, IEEE 802.3u,
 IEEE802.3z, IEEE 802.3ab,
 IEEE 802.1d

Switching Method: Store and
 forward

VLAN Support:

LB9030A–LB9032A: Port-based
 VLAN and 802.1Q Tagged
 VLAN;
 LBG1000A: IEEE 802.1Q VLAN
 Tagging, up to 8 groups

Indicators: LB9030A–LB9032A: Per
 Unit LEDs: (1) Power,
 Per 10-/100-Mbps port LEDs:
 (1) TX: 100-Mbps Speeds,
 (1) Link, (1) TC, (1) Collision,
 (1) RX, (1) Duplex;
 LBG1000A: Per unit LEDs:
 (1) Power;
 Per 10-/100-Mbps port LEDs:
 (1) LNK, (1) ACT

Operating Temperature: 32 to 104°F
 (0 to 40°C)

Relative Humidity: Up to 90%,
 noncondensing

Power: LB9030A–LB9032A: 100 to
 240 VAC, 50 to 60 Hz, external;
 LBG1000A: 100 to 250 VAC, 47 to
 63 Hz, autosensing, internal
 power supply

Size: LB9030A–LB9032A: 1.4"H x
 8"W x 5.3"D (3.6 x 20.3 x
 13.5 cm);
 LBG1000A: 1.75"H x 17.3"W x
 9.25"D (4.4 x 43.9 x 23.5 cm)

Weight:

LB9030A–LB9032A: 3.5 lb. (1.6 kg);
 LBG1000A: 7.5 lb. (3.4 kg)



Black Box offers the best warranty program in the industry—Fido Protection®. For more information, request **FaxBack 22512**.

Ordering Information

ITEM	CODE
Managed Express Ethernet Switches	
Fixed-Port, (7) 10-/100-Mbps RJ-45 Ports plus	
(1) 100-Mbps Multimode SC Port (2 km)	LB9030A
(1) 100-Mbps Multimode ST Port (2 km).....	LB9031A
(1) 100-Mbps Single-Mode SC Port (15 km)....	LB9032A
Modular, (24) 10-/100-Mbps RJ-45 Ports plus	
(2) Slots for Optional 1000BASE-SX Fiber Modules.....	LBG1000A
1000BASE-SX Fiber Module for LBG1000A	LBG1001C