BLACK BOX®
NETWORK SERVICES

PALM-SIZED ETHERNET SWITCHES
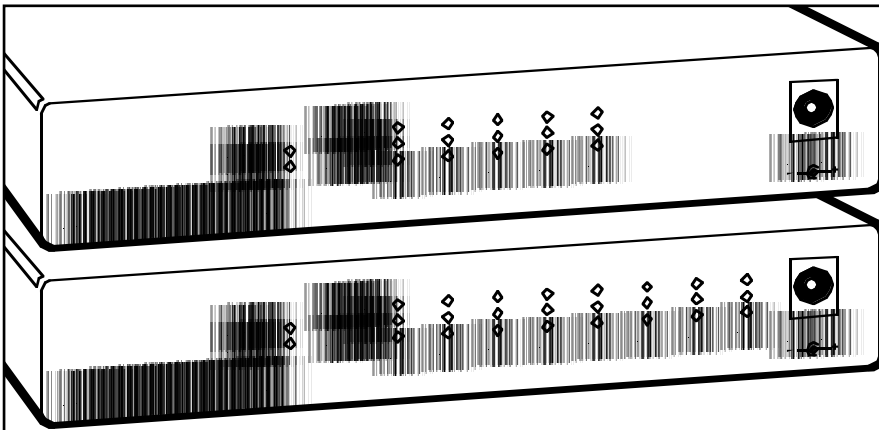
Our popular Ethernet switches are now available with a fibre uplink!

Key Features

▶ *Compact size saves valuable space.*

▶ *Plug-and-play.*

▶ *10-/100-Mbps copper ports are autosensing for speed, duplex, and MDI/MDI-X.*

▶ *Full wire-speed forwarding.*

▶ *Nonblocking switch architecture is ideal for video and data-intensive applications.*

▶ *Choose from 5- or 8-port copper-only models or from models with 7 copper ports and a port with an ST® or SC fibre uplink.*

Economically expand your small-company or workgroup network with a tiny device that fits in the palm of your hand. The Palm-Sized Ethernet Switch and Palm-Sized Ethernet Switch for Fibre enable you to integrate legacy 10-Mbps networks with 100-Mbps Fast Ethernet. The switches also function as bridges to extend the distance between two 100-Mbps network segments.

The Palm-Sized Ethernet Switch is available as a 5- or 8-port model. All RJ-45 ports are autonegotiating for 10BASE-T/100BASE-TX.

The Palm-Sized Ethernet Switch for Fibre is available with eight ports only. Seven ports feature RJ-45 connectors, and they are autonegotiating for 10BASE-T/100BASE-TX. The eighth port features either an ST or SC connector that provides a 100-Mbps fibre uplink that's perfect for connecting workgroups to fibre backbones. It can even be used for links between nodes up to 2 kilometres (1.2 mi.) apart.
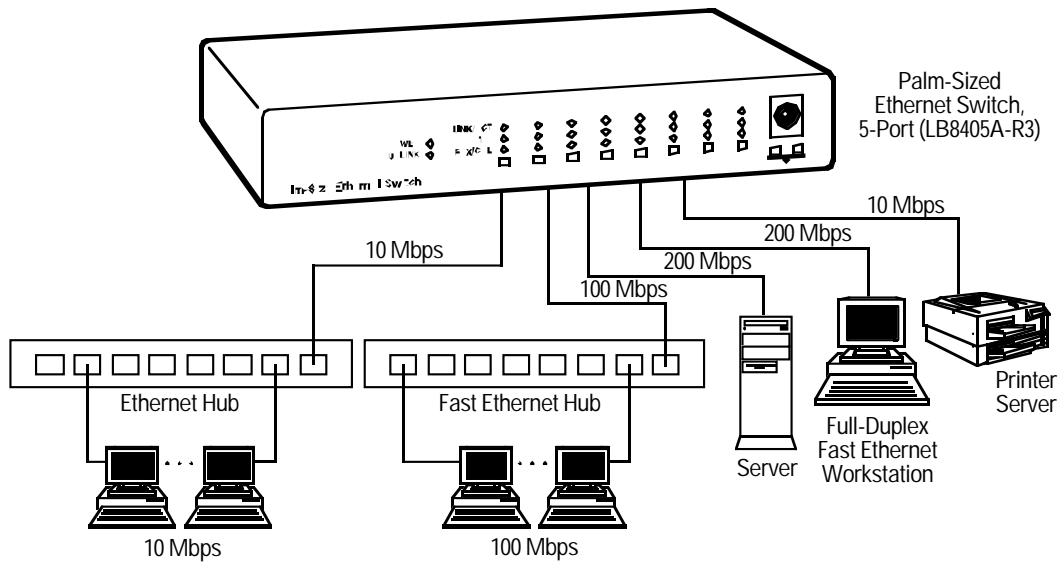
Both switches support the most demanding multimedia and imaging applications, thanks to their nonblocking switching architecture. You can run 10- and 100-Mbps speed and half- or full-duplex transmission modes on the same port.

What's more, the Palm-Sized Ethernet Switch and Palm-Sized Ethernet Switch for Fibre enable full-wire speed forwarding. They also provide back pressure and IEEE 802.3x-compliant flow control. The switches comply with other Ethernet standards, too, including IEEE 802.3 for 10BASE-T and IEEE 802.3u for 100BASE-TX and 100BASE-FX.

All switches include an internal CPU chip that provides auto-MDI/MDI-X capability on all mixed Ethernet ports. The chip also supports a MAC address table for 2000 addresses and a 1-MB shared port buffer.

The Palm-Sized Ethernet Switch and Palm-Sized Ethernet Switch for Fibre come with an external, autosensing power supply that includes a kit of three separate and detachable AC power adapters—a 2-prong adapter for US, a 3-prong adapter for UK, and a 2-post adapter for continental Europe. An L-shaped tool is also included that enables you to remove one adapter so another can be installed. Each adapter is mounted on a plastic base that slides into and out of the power supply.

A Palm-Sized Ethernet Switch supports a small office network.

Palm-Sized Ethernet Switch, 5-Port (LB8405A-R3)

10 Mbps

200 Mbps

10 Mbps

200 Mbps

100 Mbps

Ethernet Hub

Fast Ethernet Hub

Printer Server

Full-Duplex Fast Ethernet Workstation

Server

10 Mbps

100 Mbps

Specifications

Approvals: FCC Part 15 Class B, CE, VCCI Class B

Distance (Maximum):
LB8405A-R3, LB8408A-R3:
100 m (328 ft.) using 10BASE-T UTP Category 3, 4, 5 cable or 100BASE-TX UTP Category 5 or 5e cable;
LB8418A-ST, LB8418A-SC: 2 km (1.2 mi.) over fibre for links between nodes

Duplex Support: Half- and full-duplex, autonegotiating

Ethernet Standards:
All: 10BASE-T: IEEE 802.3;
100BASE-TX: IEEE 802.3u;
LB8418A-ST, LB8418A-SC:
100BASE-FX: IEEE 802.3u

Forwarding Rate:
10 Mbps: 14,880 pps;
100 Mbps: 148,800 pps

MAC Addresses: 2000

Switching Method:
Store and forward

Connectors:
LB8405A-R3: (5) RJ-45;

LB8408A-R3: (8) RJ-45;
LB8418A-ST: (7) RJ-45, (1) pair ST;
LB8418A-SC: (7) RJ-45, (1) pair SC

Indicators: LEDs:
Per unit: (1) Power;
Per port: (1) LNK/ACT

Temperature Tolerance:
Operating: 32 to 104°F (0 to 40°C);
Storage: -13 to +158°F (-25 to +70°C)

Relative Humidity:
10 to 90% noncondensing

Power: 100–240 VAC, 50–60 Hz, autosensing, external;
12 VDC output;
7.2 W (maximum) power consumption

Size: LB8405A-R3, LB8408A-R3:
0.8"H x 5.2"W x 4.5"D (2 x 13.2 x 11.4 cm);
LB8418A-ST, LB8418A-SC:
1.1"H x 6.3"W x 3.2"D (2.8 x 16 x 8.1 cm)

Weight: 0.9 lb. (0.4 kg)

What the Package Includes

- (1) Palm-Sized Ethernet Switch
- (1) data sheet
- (1) CD that includes a users' manual
- (4) rubber feet
- (1) wallmount power supply that includes: (3) power adapters for US, UK, and continental Europe; and (1) L-shaped tool for removing any power adapter so another type can be installed

Ordering Information

ITEM	CODE
Palm-Sized Ethernet Switch for Fibre	
ST®	LB8415A-ST
SC	LB8418A-SC
For optimum performance, order…	
GigaBase® 350 CAT5e Patch Cable, 4-Pair, Beige, Straight-Pinned, PVC, 3.0-m	EVNSL85-0010
Ceramic Terminated Multimode Fibre Optic Cables, Duplex, Riser	
ST–ST	EFN062-CC
SC–SC	EFN4025