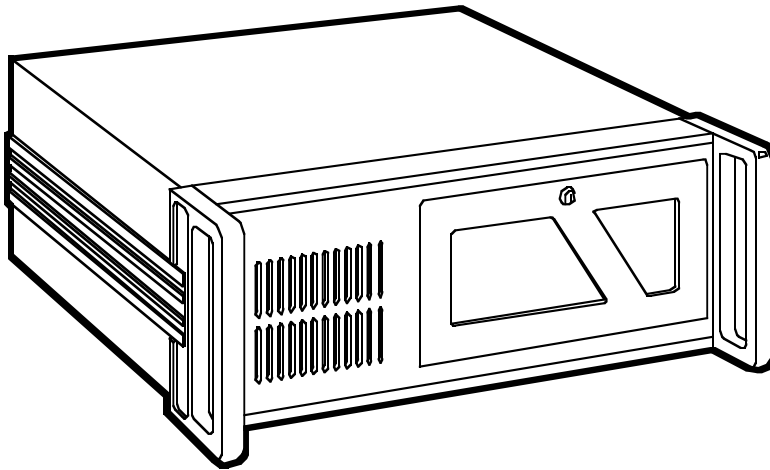


BLACK BOX[®]

NETWORK SERVICES

SpeedLAN 10 10-mbps Wireless Bridge



Finally, wire-speed wireless internetworking: a wireless bridge that connects your LANs at speeds up to 10 mbps.

Key Features

- ▶ *Transmits and receives at up to 10 Mbps; your standard-Ethernet users won't even know it's there.*
- ▶ *Faster and more reliable than high-speed phone circuits.*
- ▶ *Quick payback; no ongoing monthly service fees.*
- ▶ *Goes where cable can't go; no rights-of-way needed, no digging up the streets...*
- ▶ *Simple to install—works right out of the box—and easy to redeploy for disaster recovery or temporary use.*
- ▶ *Comes with all the hardware and software you need to get it working, including installation materials, antenna cable, and management software.*

With the SpeedLAN 10, you get the best of both worlds: wire speed and wireless distance. You can use these wireless bridges to send information between two or more connected Ethernet LANs at 10 mbps, as far as 10 miles (16 km)—or as far as 25 miles (40 km) with the integrated-amplifier version. (Please note that the SpeedLAN 10 requires clear line of sight between the antennas at the two sites; make sure this is possible before you order.)

Simply install the bridge at two or more separate locations whose LANs you want to link, and all users on each LAN will be able to send and receive data to and from users on the other LAN. Since the bridge operates at 10 mbps, you'll spend less time waiting for the data you need and more time taking care of business.

Different types of antennas and different antenna-cable lengths are available to suit your installation. (The higher an antenna's dBi power rating, and the shorter its antenna cable, the farther the antenna

can transmit.) If the standard antennas don't meet the needs of your application, we offer empty SpeedLAN 10 chassis in which you can install daughtercards for alternative antennas.

(In addition to the stock antennas, others designed for special applications are available on a quote basis. If you suspect that you might need a special antenna, please call Black Box Technical Support to discuss your application.)

You can use the bridge to set up simple point-to-point links (or, with an omnidirectional antenna, multipoint links) between school, hospital, or government buildings, or to link corporate networks in separate buildings.

Setting up the SpeedLAN 10 is a snap—just plug it in, point the antennas in the right direction, and configure the bridge with the included management software. With the included SpeedLAN 10 Windows 95/Windows NT 4.0 Configurator program, you can manage every aspect of the SpeedLAN 10 with ease.

You can also order the optional IP-Routing Software to connect two Ethernet LANs within an IP-based network, especially an intranet or extranet. In addition, you can use the optional Encryption Software to encrypt and decrypt your data for added security.

Typical Application

Use the SpeedLAN 10 to create a 10-mbps wireless backbone that joins your company's main local sites. Then call the phone company and terminate your leases on those T1 lines that are bleeding you dry.

Main-Unit Specifications

Compliance — CE, FCC Part 15 Subpart J Class A, DOC Class/MDC classe A

Standards —
Network communication:
IEEE 802.3 Ethernet v.2;
Transparent MAC-layer
bridging: 802.1d;
IP routing (optional):
Various RFCs

Interface —
LAN: 10/100BASE-T;
Out-of-band management:
EIA/TIA RS-232 serial

Operation — Point-to-point or
(with omnidirectional
antenna) multipoint

Frequency — 2.4 GHz

Antennas — See table below

Data Rate —
Wireless: 10 Mbps;
LAN: 10 or 100 Mbps

Maximum Distance —
Radio transmission:
Non-amplified (LW5000A)
models:
2 mi. (3.2 km) from
omnidirectional antenna;
5 mi. (8 km) from flat
directional antenna;
10 mi. (16.1 km) from
semi-parabolic grid
antenna;

**User Controls and
Diagnostics**—
Included Windows 95/NT 4.0
management software

Indicators —
All front-mounted:
(8) LEDs for forwarding-
rate percentage;

(4) sets of Receive,
Transmit, and Collision
LEDs:
(1) for wireless interface;
(1) for 10/100BASE-T
interface;
(2) reserved

Connectors —
All rear-mounted:
(1) RJ-45 female for
10/100BASE-T;
(1) DB25 female for out-of-
band management;
(1) Proprietary reverse-TNC
female for antenna cable;
(1) IEC 320 male power inlet;
(1) IEC 320 female power
pass-through outlet

Power —
From utility-power outlet,
through power cord and
internal power-supply
transformer:
110 VAC, 60 Hz, or
220 VAC, 50 Hz, switch-
selectable;
Consumption: 250 watts max.

Temperature Tolerance —
Operating: 32 to 104° F
(0 to 40° C);
Storage: -40 to 140° F
(-40 to 60° C)

Humidity Tolerance —
10 to 90% noncondensing

Size — 7"H x 17.5"W x 19.5"D
(17.7 x 44.5 x 49.5 cm)

Weight — 42 lb. (19 kg)

The complete package:

- The SpeedLAN 10 itself.
- Its users' manual.
- The appropriate antenna for the model you ordered, plus:
 - an antenna-assembly manual and
 - an antenna cable of the ordered length with low-loss connectors, lightning arrestors, and a brass-rod grounding clamp.
- A wallmount bracket.
- An APC® ProtectNet® data-line surge protector for the 10/100BASE-T port.
- (2) 3.5" diskettes containing Windows 95 and Windows NT 4.0 based management software.

Ordering Information

Item

SpeedLAN 10-Mbps Wireless Bridge-ETSI

Includes (1) SpeedLAN Wireless Bridge, (1) 8.5-dBi patch panel directional antenna and (1) 33.8-m coaxial antenna cable

Optional Antennas

11-dBi Omni 360° Antenna and 18.2-m (60ft) Cable LW5011-60

17-dBi Flat Directional Antenna and 10.6-m (35-ft) Cable LW5017-35

For optimum performance, order...

Category 5 Solid-Conductor Cable, 4-Pair, Straight-Pinned, PVC, 3.0-m (10-ft)

Product Code

LW5000AE-110IP-ETSI

LW5011-60

LW5017-35

EYN737MS-0010