BLACK BOX®
NETWORK SERVICES

Wireless Mesh Access Point

Key Features

▶ Self configuring, Self-healing MESH network - up to 40 nodes

▶ Detects & reports rogue APs

▶ Rugged IP 67 enclosure for outdoor use as a HotSpot or repeater

▶ Dual Radios: 802.11a/b/g for both AP and Bridging

▶ Super G & Turbo A on access point & bridge up to 108 Mbps

▶ Three modes: access point, wireless bridge, or repeater

▶ Power-over-Ethernet (PoE) standard

▶ 64, 128, and 152-bit WEP

▶ AES-CCMP/WPA2/802.11i

▶ Wireless client load balancing

▶ Optional lightning protection

The LWS7001 Wireless Mesh Access Point is housed in a sturdy enterprisefriendly IP 67 enclosure for use outdoors and indoors as an access point/ bridge or repeater. Its outdoor range is a minimum of 1400 feet unboosted. This model incorporates 802.11a/b and 802.11g on both AP and bridging ports. 802.11g, like 802.11b, operates in the 2.4 GHz range. And it is bakkward-compatible with 802.11b, so that, if you already have an 802.11b network, you can smoothly transition. The 802.11a system operates in the 5GHz band for reduced interference. What's the advantage? The 802.11g and 802.11a interfaces have a maximum rated speed of 54 Mbps. The Turbo A and Super G options provide up to 108 Mbps data rate. The LWS7001 employs WEP/WPA2 on the AP access band and very secure AES on the bridge.

The 802.11a/b/g AP card uses a 2.5/5dbi tri-band detachable antenna. The bridging port has a type SMA reverse polarity connector for the bridge antenna.

The LWS7001 will also detect rogue access points to further protect your network from unauthorized access — an invaluable capability. Wireless network management is easy with a GUI WEB interface which allows you to add users to and remove users from the system. Finally, you have full use of Powerover- Ethernet, saving the time and cost associated with powerline cabling.

Specifications

External Ports
1 10/100 Mbps WAN Ethernet port
1 LAN port (for configuration)
3 External antenna port

LED Indicators
Power, WAN

WLAN 1 — Activity light/Link Ind.
WLAN 2 — Activity light/Link Ind.
WLAN — Signal Strength

Environment & Safety
Operating Temperature —
-5º to +50º C standard;
-30° to +70° option with TEC

Storage Temperature —
- 40° to +80° C

Operating Humidity —
0 to 95% non-condensing

EMI/Safety —
FCC Class B
CE Approved
WiFi Certified in AP mode
DGT
Lightning protection (option)

Wireless Features

Multiple RFs —
802.11a/b/g for AP & bridge with
Turbo A and Super G

Operation mode —
Access Point, Bridge/Repeater
Self-forming, self-configuring,
selforganizing mesh - up to 40 nodes
SSID

Channel number —
Fixed or automatic select (optimum)
Adjustable Tx power
802.11h Dynamic Frequency Selection
802.11h Transmit Power Control
Load balancing of wireless clients

Security —
- WEP – 64, 128, and 152-bit
- WPA – PSK
- WPA (802.1x) – Dynamic Key
- WPA2/802.11i
- AES–CCMP
- Enable/disable broadcast SSID
- MAC address filtering
- Rogue wireless AP detection with
  e-mail notification

Wireless AP and wireless client
activities monitoring—
- Signal strength
- MAC address listing of wireless clients

WAN Ethernet Setting
- Fixed IP
- DHCP client
- Supports 10/100 Mbps auto negotiation

LAN Ethernet Setting
Supports 10/100 Mbps full/half
duplex auto negotiation

Device Management
- Web Server/HTTPS
- SNMP v1, v2, v3 Agent
- Multiple user privileges

Tools and Utilities
- Ping utility
- Trace route utility
- Firmware upgrade via web
- Reboot device
- Factory default

Mounting Kit Included
Dimensions

Weight: 5.5 lbs
Size: 9.25" x 8.25" x 3.00"

Ordering information

ITEM	CODE
Wireless Mesh Access Point LWS7001	

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We are, with 25 years of experience, the world leader in network infrastructure services.

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