



Dual Radio PoE Mesh Access Point



WAB-7400

H/W Version: 1

Superior Wireless Mesh Performance

The LevelOne WAB-7400 is a dual-radio wireless mesh access point that was developed to tackle the professional-level wireless challenges any systems integrator will face. Whether it's creating an industrial grade wireless mesh network for a factory or warehouse, or building a flexible network on a large corporate campus, the LevelOne WAB-7400 does the job with simplicity and ease.

Dual Band Technology

When a client needs to transmit surveillance data around the premises, but they also want wireless internet access at each access point, what do you do? The LevelOne WAB-7400 comes dual-radio technology, allowing both

requirements to be fulfilled. The 5 GHz radio creates a robust auto-forming and self-healing line of sight backhaul network to handle high-bandwidth data, voice, and surveillance streams. The 2.4 GHz radio allows users to connect via the broadcast SSIDs for internet surfing or accessing resources on the LAN. Since each chipset operates on a different frequency, both networks offer professional-class performance with no overlapping interference.

Power over Ethernet (PoE)

With PoE functionality, system installers can deploy WAB-7400 in tight spots on the roof of tall buildings because all power and data is transferred using a single Cat.5 cable.



1. WLAN 1 connector
2. WLAN 2 connector
3. Ethernet 10/100 RJ45 port

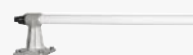
Key Features

- IEEE 802.11a/b/g standard compliant operates on the 2.4 GHz/5 GHz unlicensed ISM spectrum
- Self-configuration and healing Mesh network
- Advanced OLSR (Optimal Link State Routing) protocols find the optimal routing path once the link status is changed or broken
- Support 802.1x (EAP-TLS/TTLS/SIM/PEAP) and 802.11i (WPA/WPA2, AES) high security level
- Support 802.1Q VLAN
- Support WMM extension and bandwidth control
- 802.3af PoE power supply and data transmission
- Support SNMP v1/v2c/v3
- IP-65 Weather proof design

Works Well With



OAN-2150
15dBi Omni-Directional Outdoor Antenna



OAN-4100
11a(5.500~5.825Ghz) 10dBi Omni-Direction Antenna Kit

Technical Specifications

Standard Conformance
IEEE 802.11a/b/g, IEEE 802.3, IEEE 802.3u, IEEE802.3af
Network Interface
LAN: 10/100 Mbps RJ-45 Port
Radio Operation
Data Transfer Rate
802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps
802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
802.11b: 1, 2, 5.5, 11Mbps
Modulation
802.11a/g: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
802.11b: DSSS (DBPSK, DQPSK, CCK)
Media Access Control
CSMA/CA with ACK
Frequency Band
802.11a: 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.825GHz
802.11b/g: 2.4~2.4835 GHz
Number of Channels
802.11b/g:
Channel 1~11 North America
Channel 1~13 Europe
Channel 1~14 Japan
802.11a:
US/Canada: 12 non-overlapping channel (5.15~5.35GHz, 5.725~5.825GHz)
Europe: 19 non-overlapping channel (5.15~5.35GHz, 5.47~5.825GHz)
Japan: 4 non-overlapping channel (5.15~5.25GHz)
China: 5 non-overlapping channel (5.725~5.85GHz)
RF Connector
2 x N-type (WLAN1 / WLAN2)
Receiver Sensitivity(Typical)
802.11a:
-88dBm @ 6Mbps
-70dBm @ 54Mbps
802.11g:
-91dBm @ 6Mbps
-74dBm @ 54Mbps
802.11b:
-92 dBm @ 1Mbps
-95 dBm @ 11Mbps
Transmitter Output Power (Typical)
5.15~5.24 GHz (IEEE802.11a):
17dBm @6~24Mbps
17dBm @36Mbps
16 dBm @48Mbps
15 dBm @54Mbps
5.26~5.35GHz (IEEE802.11a):
20dBm @6~24Mbps
18dBm @36Mbps
16 dBm @48Mbps
15 dBm @54Mbps
5.745~5.85GHz (IEEE802.11a):
18dBm @6~24Mbps
16dBm @36Mbps
14 dBm @48Mbps
13 dBm @54Mbps
2.412~2.472GHz (IEEE802.11g):
20 dBm @54Mbps
2.412~2.472GHz (IEEE802.11b):
20 dBm @1, 2, 5.5 and 11Mbps

Operating Mode

WLAN1: Backhaul mode

WLAN2: AP mode

Auto Channel Selection

Yes

System

Management

- HTTP / HTTPS/ SSH
- Windows Management Utility
- SNMP v1/v2c/v3
- Firmware upgrade via utility/HTTPS
- Syslog

Windows Management Utility Features

- MESH AP discovery
- MESH AP status
- MESH AP setup, upgrade, reboot
- User status, activity

System Operating Mode

- Gateway
- Relay*

*Remark: In Relay mode, Ethernet functionality will be disabled except power feeding

WAN Connection Type (Gateway mode)

- Fixed IP
- PPPoE
- DHCP client

Security

- Authentication: 802.11i (WPA, WPA2), 802.1x (including EAP-TLS/TTLS)
- Encryption: Open, WEP-64/128, TKIP, AES
- MAC address access control list
- 802.1Q VLAN Support
- MSSID Support in client access mode
- VPN pass-through/ End to end VPN (PPTP)
- Hidden SSID
- HTTP login
- HTTPS login

QoS

- WMM
- Bandwidth control

Physical Specifications

Power Connector

1 x Proprietary Ethernet / Power connector with water proof

Power Requirement

48V DC, 0.375A (proprietary PoE)

Temperature

Operating: -20 ~ 70°C

Storage: -30 ~ 80°C

Humidity

0 ~ 95% (Non-condensing)

Dimensions

260mm(L) x 175mm(W) x 65mm(H)

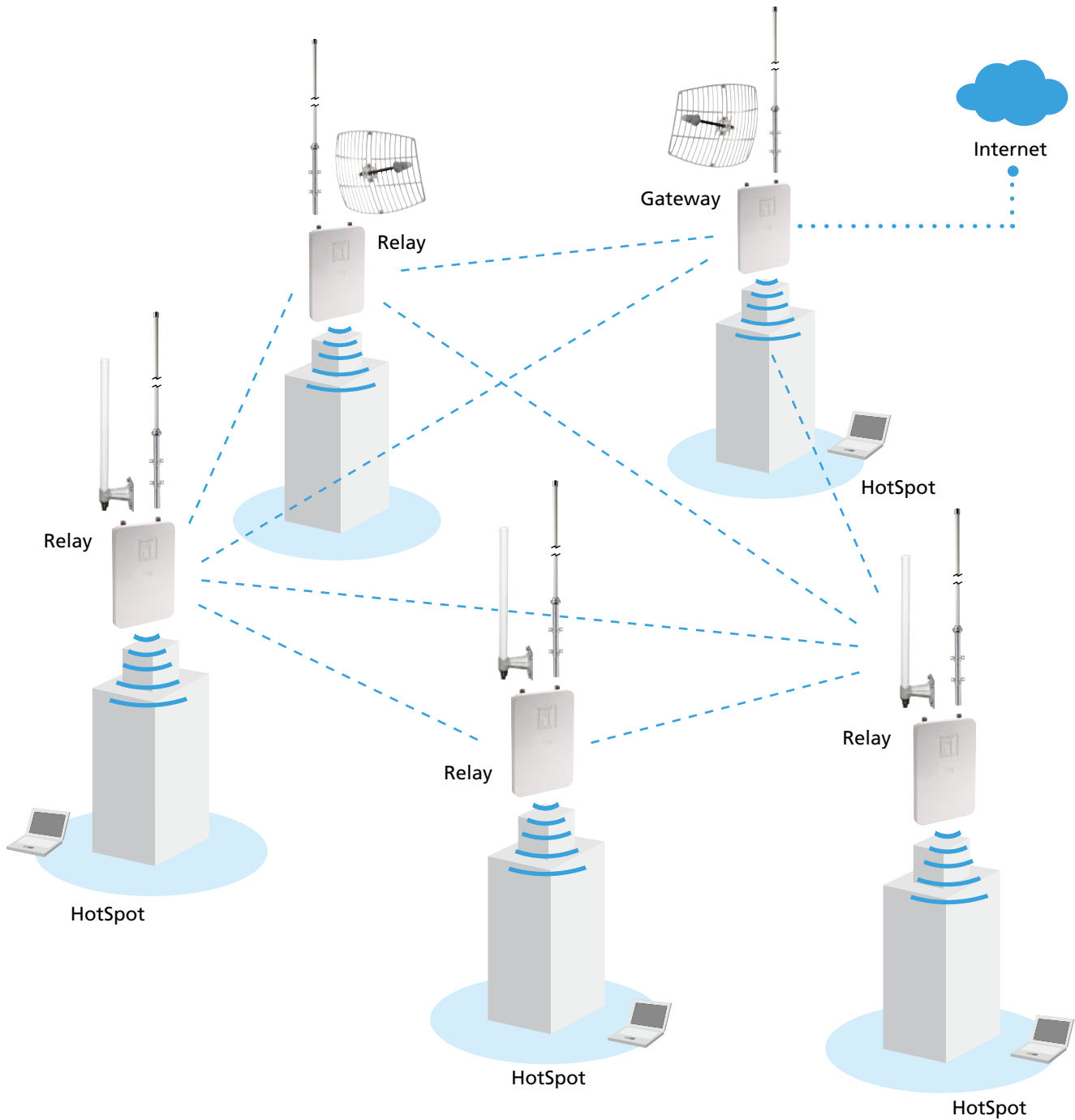
Weight

450g

Certifications

CE,FCC

Product Diagram



Order Information Package Contents

WAB-7400: Dual Radio PoE Mesh Access Point

WAB-7400
POI-2000 PoE Injector
CD Manual/Utility
Mounting Kit