

Wireless Mesh Outdoor AP/ Bridge

Dual Spectrum/Tri-band Operation

LevelOne's WAB-2000A is a powerful outdoor AP/Bridge designed for using with wireless meshed networks. WAB-2000 supports IEEE 802.11 a/b/g dual spectrum operations working in the 2.4GHz and in the 5 GHz radio bands on both AP and bridging ports. With the WAB-2000A advanced design, the Super G (Turbo A optional) technology provide data rates of up to 108 Mbps.

Self-Forming, Self-Configuring, Self-Healing mesh network

WAB-2000A allows users to build a self-organizing mesh network which doesn't require manual configuration. Adding new AP nodes or relocating existing APs is as simple as powering them on. The network discovers the new nodes or relocated nodes automatically and incorporates it into the mesh system. WAB-2000A is also highly adaptable. If a link or devices in a mesh network goes down, the multiple paths between nodes allows traffic to travel around obstacles via other path.

Strong Security

In order to protect your network from unauthorized access, this device is able to auto-detect rogue access points. Wireless network data are protected with 64/128/152-bit WEP encryption on the AP access band and AES-CCMP encryption on the bridge. Moreover, WAB-2000 also features enhanced security with WPA2/802.11i and 802.1x user authentication.

Easy Installation and Maintenance

WAB-2000A offers a built-in POE function to eliminate power cable and adapter management while deploying wireless outdoor AP installation anywhere. With its Web-based management interface, the users can easily configure and maintain the AP through a general browser.



WAB-2000A

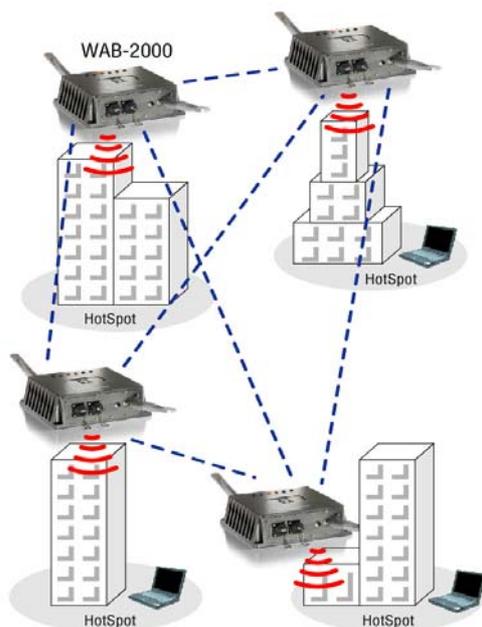
Key Features

- Self-forming, self-configuration, self-organizing mesh- up to 40 nodes
- Dual Radios/ Tri-band: IEEE 802.11 a/b/g access point and bridge
- Super G (Turbo A optional) on access point & bridge for 108 Mbps data rates
- Simultaneously operates in AP, Bridge or Repeater modes
- Supports POE function, eliminating power cable management and cost
- Supports 64/128/152-bit WEP encryption
- Supports AES-CCMP/ WPA2/ IEEE 802.11i wireless security standard
- Auto-detects & reports rogue APs
- Supports Dynamic Frequency Selection (DFS)
- Supports Transmit Power Control (TPC)
- Rapid deployment, simplified installation
- Wireless client load balancing
- Rugged, high throughput with extended range

Technical Specification

- **External Ports**
 - 1 x 10/100 Mbps WAN Ethernet port
 - 1 x 10/100Mbps LAN port
 - 3 x External antenna ports
- **WAN Ethernet Setting**
 - Fixed IP
 - DNCP client
 - Supports 10/100 Mbps auto negotiation
- **LAN Ethernet Setting**
 - 10/100 mbps full/half duplex auto negotiation
- **Device Management**
 - Web Server/ HTTPS
 - Supports SNMP v1, v2, v3 agent
 - Multiple user privileges
- **Power**
 - Input Voltage: 48 VDC
 - Injector input: 100~240 VAC, 50~60Hz
 - Power Consumption: 25W
- **Environment & Safety**
 - Operating Temperature: -5°C ~+50°C
 - Storage Temperature: -40°C ~+80°C
 - Operating Humidity: 0~95% non-condensing
 - EMI/Safety: FCC Class A, CE
 - IP66 Proof
- **LEDs**
 - Power
 - WAN
 - WLAN1: Activity light/ Link Ind.
 - WLAN2: Activity light/ Link Ind.
 - WLAN: Signal Strength
- **Physical Spec**
 - Dimensions: 23.5cm(L) x 21.0cm(W) x 7.62cm (H)
 - Weight: 2.5 Kg
- **Wireless interface**
 - 802.11a/b/g for AP & bridge with Super G (Turbo A optional)
- **Operation Mode**
 - Access Point, Bridge/ Repeater
- **Self-Forming, Self-configuring, self-organizing mesh**
 - Up to 40 nodes
- **Channel Number**
 - Fixed or automatic select (optimum)
- **Antennas (Default)**
 - 1 x 5dBi for 802.11a and 1 x 2.5dbi for 802.11b/g Dual band omni directional antenna
- **Security**
 - WEP: 64/128/152-bit encryption
 - WPA-PSK
 - WPA (802.1x) –Dynamic Key
 - WPA2/ 802.11i
 - AES-CCMP: 128-bit encryption
 - Enable/disable broadcast SSID
 - MAC address filtering
 - Rogue wireless AP detection with email notification
- **Wireless AP and wireless client activities monitoring**
 - Signal strength
 - MAC address listing of wireless clients
- **Tools and Utilities**
 - Ping Utility – Trace route utility
 - Firmware upgrade via web
 - Reboot device
 - Factory default

Product Diagram



Mesh Network System

Ordering Information

- WAB-2000A: Wireless Mesh Outdoor AP/Bridge