

Wave Link OWLT-150AB

802.11a+g 108Mbps Wireless Outdoor AP Bridge

Overview

The **OWLT-150AB-S/ OWLT-150AB-M** is an enterprise class IEEE 802.11a and 802.11b/g dual-band outdoor Bridge and Wireless Access Point. It is ideal for enterprises, campuses or off-site locations that require LAN or Internet access without the availability of wired networks to extend the network coverage. OWLT-150AB-S/OWLT-150AB-M provides point to point or point to multi-point connections. One unit can be set as a Master base station while others will be used in slave configuration.



Features

Performance and Scalability

OWLT-150AB-S and OWLT-150AB-M units support WDS for bridging to connect two networks in different locations together through a wireless link, eliminating the need of cabling and expensive leased line.

Point to multipoint connection require 1 unit acting as master and up to to 5 slave units, extend main network to remote branch offices, warehouses or other exterior buildings without leased lines.

OWLT-150AB-M is equipped with 4 N-Type connectors, 2 for 11a and 2 for 11g. OWLT-150AB-S is equipped with 3 N-Type connectors and an additional embedded 17dBi panel antenna for easy deployment. To complement these devices Linkpro offers a variety of external antennas that can be chosen for signal intensity and shaping the coverage area.

Both IEEE 802.11a and 11g radios supports data rates of up to 54Mbps. Super A/G increases data rates up to 40-60 Mbps and Turbo A/G can increase data rates up to 108 Mbps.

High Power PoE Injector support simplifies deployment and dramatically reduces installation costs.

Dynamic Frequency Selection (DFS) Radar detection used by the Master dynamically changes to free channels. Slave units will dynamically follow the change of master.

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A RSSI indicator using LED lights is built into the exterior of the OWLT-150AB-S/OWLT-150AB-M. RSSI readings can also be found in the Web interface.

Continuous Availability

Availability OWLT-150AB-S/OWLT-150AB-M is a fully weatherproof robust outdoor unit with extended operating temperature ranging from -40~60 °C with cold start using the built-in heater. This smartly designed device guards against wind vibration, water, shock, and more. Even a built-in lightning protector is included.

Support for IEEE 802.1D Spanning Tree Protocol ensures a loop free network.

Enhanced Security

IEEE 802.1X authentication, Pre-shared key authentication and MAC address authentication ensure that only authorized users are allowed to access the wireless network.

IEEE 802.1X support includes EAP-MD5,EAP-TLS,EAP-TTLS and PEAP to provide strong, mutual authentication and dynamic per user, per session encryption key management.

Wi-Fi Protected Access (WPA) combines 802.1X user authentication with enhanced, industry-compatible encryption (TKIP). WPA2 and IEEE 802.11i include AES-CCM, for data encryption and significantly enhance wireless data privacy.IEEE 802.1Q compliant VLAN support and tagging permit 64 VLANs to be independently mapped to RADIUS server attributes.

Local wireless bridge filter, when enabled, prevents communication between wireless devices associated with the same access point.

Simple Management

Industry standard Command Line Interface (CLI) via console port or telnet provides a common user interface and command set for users to manipulate the Bridge/Access Point.

Embedded user friendly web interface helps users easily make quick configuration.

SNMP v1, v2, v3 network management are supported.

Dual flash images enables auto-recovery upon unsuccessful software download.

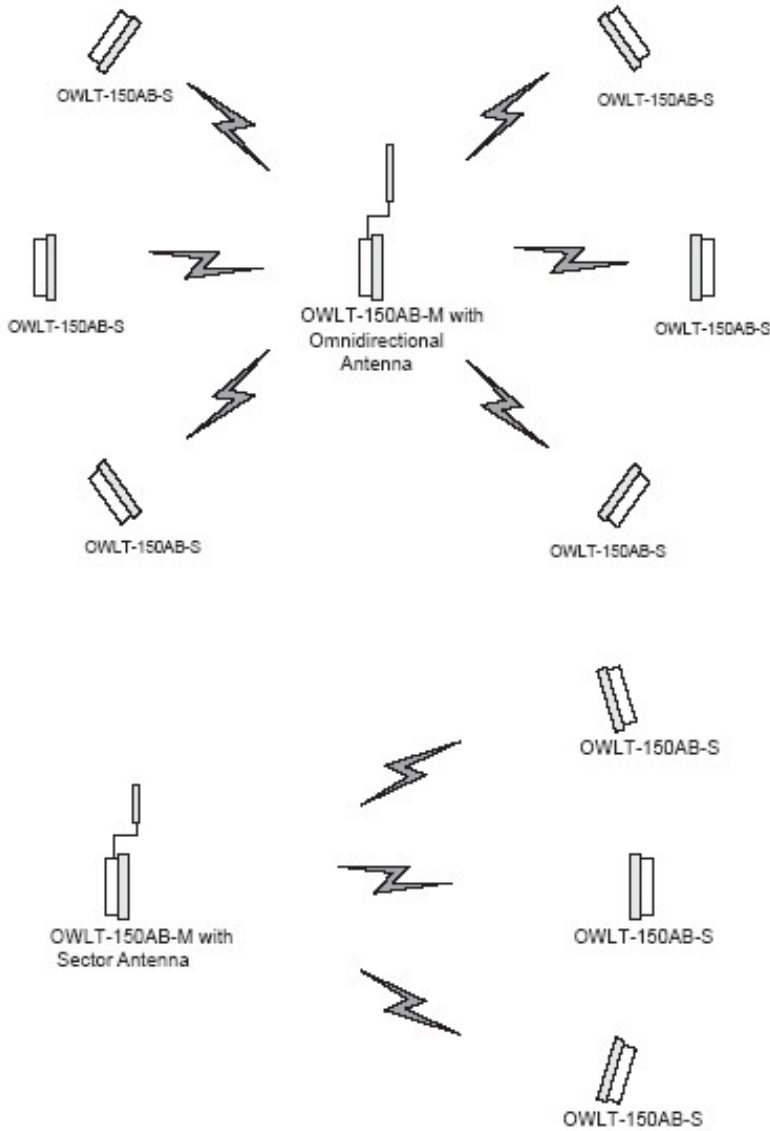
Specifications

Physical Ports	<ul style="list-style-type: none"> ● 1* 10/100Base-T/TX compatible with IEEE802.3 	
	<ul style="list-style-type: none"> ● 1* RS-232 console port 	
	<ul style="list-style-type: none"> ● 4* N-Type connectors (OWLT-150AB-M) 	
	<ul style="list-style-type: none"> ● 3* N-Type connectors + 1* 17dBi integrated antenna (OWLT-150AB-S) 	
Wireless Features	<ul style="list-style-type: none"> ● Auto-Channel Selection 	
	Advanced Settings	<ul style="list-style-type: none"> ● Transmitting power ● Five Levels: Full, -3dB (50%), -6dB (25%), -9dB (12.5%), MIN ● RTS/CTS, Fragmentation ● Selectable long or short preamble ● Selectable Beacon interval ● WDS Bridge Mode: PtP, PmP ● Repeater Mode ● AP Mode ● Selectable DTIM Interval
L2 Features	<ul style="list-style-type: none"> ● IEEE 802.1D Spanning Tree Protocol ● VLAN support up to 64 groups 	
Electrical	Radio	<ul style="list-style-type: none"> ● Complies with IEEE 802.11a/b/g
	Modulation Types	<ul style="list-style-type: none"> ● IEEE 802.11a: BPSK, QPSK, 16-QAM, 64-QAM ● IEEE 802.11b/g: CCK, BPSK, QPSK, OFDM
	Data Rates	<ul style="list-style-type: none"> ● IEEE802.11a: 6/9/12/18/24/36/48/54 Mbps Up to 108Mbps (turbo mode) ● IEEE 802.11b: 1/2/5.5/11 Mbps ● IEEE 802.11g: 6/9/12/18/24/36/48/54 Mbps Up to 108Mbps (turbo mode) ● Media Access Protocol: CSMA/CA with ACK ● Nominal AC input to POE: 100~240 Vac, 50~60Hz ● Power over Ethernet: Nominal Input Voltages 48-60V DCIEEE ● Long distance connection-17 dBi sector antenna offers a transmissions range up to 20kilometers over free space.
	IEEE 802.11a	<ul style="list-style-type: none"> ● 12 channels in base mode (US, Canada) ● 5 channels in turbo mode (US, Canada) ● 4 channels (Japan)

Operating Channels		<ul style="list-style-type: none"> ● 11 channels in base mode (Europe) ● 4 channels in turbo mode (Europe)
	IEEE 802.11b/g	<ul style="list-style-type: none"> ● 11 channels in base mode (US, Canada) ● 13 channels (ETSI) ● 14 channels (Japan)
Security	<ul style="list-style-type: none"> ● IEEE 802.1X Authentication Access Control with Key Rotation ● IEEE 802.1X Mutual Authentication Access Control between two bridged APs ● WEP security: 64/128/152 bits ● WPA/WPA2, AES ● Radius Client support ● Local MAC address filtering ● HTTP ● SSSL/SSH ● ACL 	
Management	Switch Management	<ul style="list-style-type: none"> ● CLI via console port or Telnet ● WEB management ● SMNP v1, v2, v3
	Firmware & Configuration	<ul style="list-style-type: none"> ● Dual firmware images ● Firmware upgrade via FTP, Web or TFTP server ● Multiple configuration files ● Configuration file upload/download via TFTP server
	<ul style="list-style-type: none"> ● Supports BOOTP and DHCP client/relay ● Event/Error Log/Syslog ● System Watchdog 	
Mechanical	<ul style="list-style-type: none"> ● Dimensions (H x W x D) : 195 x 190 x 74 mmUL 	
Safety	<ul style="list-style-type: none"> ● UL(UL60950-1/CSA60950-1)UL/GS (EN60950-1)CB (IEC-60950-1) 	
Environmental Specifications	Operating Temperature	<ul style="list-style-type: none"> ● ETS 300 019-2-4 Class 4.1E modified -40°C to 60°C. Vibration class 4M3

	Transportation Environment	<ul style="list-style-type: none"> ● ETS 300 019-2-2 Class 2.3 Public Transportation
	Storage Environment Shock	<ul style="list-style-type: none"> ● IEC 68-2-29
	Drop	<ul style="list-style-type: none"> ● IEC 68-2-32
	Wind (Operational)	<ul style="list-style-type: none"> ● 100 MPH
	Wind (Survival)	<ul style="list-style-type: none"> ● 150 MPH
	Lightning	<ul style="list-style-type: none"> ● The unit should withstand a +4KV of Input surge, 1.2usec rise/fall time, 50 μsec duration, every 10 seconds, for both RF and IF ports
Regulatory Compliance	<ul style="list-style-type: none"> ● CE Mark ● FCC Class B ● VCCI Class B ● CISPR Class B 	

Application



Ordering Information

OWLT-150AB-M : 802.11a+b+g 108Mbps Wireless Long-Range Outdoor AP Bridge (Master Unit)

OWLT-150AB-S : 802.11a+b+g 108Mbps Wireless Long-Range Outdoor AP Bridge (Slave Unit)

** Product specification subject to change without notice.*

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