

OWL300

OUTDOOR ACCESS POINT



INTRODUCTION

The 4ipnet OWL300 is a concurrent dual-band 802.11ac wave 2 outdoor access point ideal for providing outdoor Wi-Fi coverage and network access to equipment in remote locations such as IP video surveillance cameras. Featuring two 2x2 MU-MIMO radios, the OWL300 can simultaneously support up to 300 and 867 Mbps data rates in the 2.4 and 5 GHz bands respectively.

When OWL300 is deployed and centrally managed by 4ipnet WHG Controller, additional value-added applications such as bandwidth control, user authentication, and captive portals can be used to provide an ideal solution for all types of businesses.

HIGHLIGHTS

WI-FI

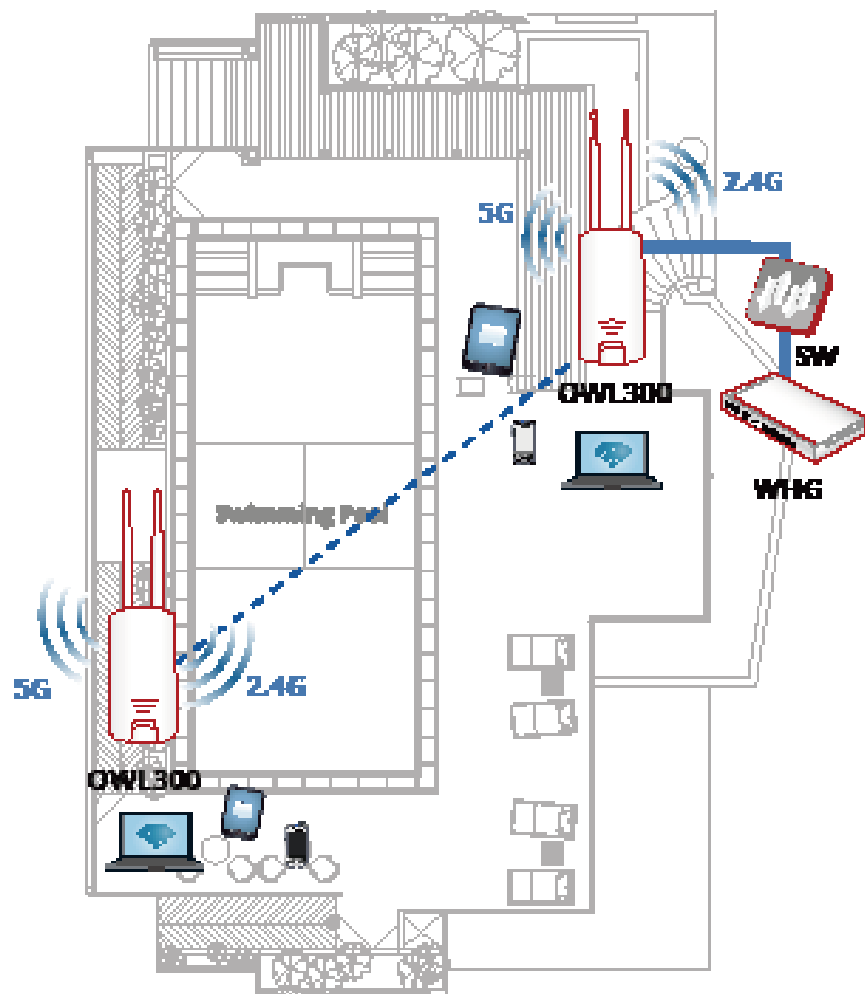
- Concurrent Dual-Band 2.4 & 5 GHz
- 2x2 MU-MiMO supporting up to 1.2 Gbps data rate
- Support up to 32 ESSIDs.
- Enterprise-grade Wireless Security

PHYSICAL

- Simple installation with pole/wall mount
- Compact IP55 enclosure
- 802.3at PoE Uplink Port
- 802.3af PoE Downlink LAN Port
- External Antennas with RP-SMA Female

MANAGEMENT WITH 4IPNET WHG CONTROLLER

- Captive Portal & Guest Provisioning
- Fast Layer 2/Layer 3 Roaming
- User-based Access Management
 - Bandwidth Control
 - Firewall Policies
 - Routing Policies
- Wi-Fi Monetization



SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> • PoE: 802.3at compliant (PoE injector optional)
Dimensions	<ul style="list-style-type: none"> • 25.5 cm (L) x 12.0 cm (W) x 4.5 cm (H)
Weight	<ul style="list-style-type: none"> • 6.5 kg (14.33 lbs) (Including antennas)
Interfaces	<ul style="list-style-type: none"> • Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3at PoE (PD) • LAN: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE (PSE)
LED Indicator	<ul style="list-style-type: none"> • 5G/ 2.4G/ LAN (PSE)/ LAN (PD)/ Status/ Power
Buttons	<ul style="list-style-type: none"> • Reset / Restart
Environmental Conditions	<ul style="list-style-type: none"> • Operating Temperature: -10°C (14°F) to 50°C (122°F) • Operating Humidity: 10% to 90% non-condensing • IP55 Rating
Power Consumption	<ul style="list-style-type: none"> • 14.8W max.
Antenna	<ul style="list-style-type: none"> • Gain: 5 dBi (2.4 GHz), 6 dBi (5 GHz) • Type: 2 x external RP-SMA antennas
Mounting	<ul style="list-style-type: none"> • Wall/Pole mount (Mounting kit included)

WI-FI	
Standards	<ul style="list-style-type: none"> • 802.11 a/b/g/n/ac ; Wave 2 • Concurrent dual-band 2.4 & 5 GHz
Supported Data Rates	<ul style="list-style-type: none"> • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: 6.5 – 144 Mbps (20 MHz) • 802.11n: 13.5 – 300 Mbps (40 MHz) • 802.11ac: 6.5 – 173.4 Mbps (20 MHz) • 802.11ac: 13.5 – 400 Mbps (40 MHz) • 802.11ac: 29.3 – 866.6 Mbps (80 MHz)
Radio Chains	<ul style="list-style-type: none"> • 2 x 2
Spatial Streams	<ul style="list-style-type: none"> • 2
RF Output Power*1	<ul style="list-style-type: none"> • 2.4 GHz: Up to 19 dBm*2 • 5 GHz: Up to 19 dBm*2
Channelization	<ul style="list-style-type: none"> • 20 MHz • 40 MHz • 80 MHz
Frequency Band	<ul style="list-style-type: none"> • 2.412 – 2.472 GHz • 5.180 – 5.825 GHz
Operating Channels	<ul style="list-style-type: none"> • 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan) • 5 GHz*3: 36 – 165 (US), 36 – 140 (Europe), 36 – 140 (Japan)
ESSIDs	<ul style="list-style-type: none"> • Up to 16 per radio (32 total)
Certifications	<ul style="list-style-type: none"> • FCC (United States), CE (Europe), NCC (Taiwan)

PERFORMANCE	
Physical Data Rate	<ul style="list-style-type: none"> • Up to 300 Mbps (2.4 GHz) • Up to 867 Mbps (5 GHz)
Concurrent Users	<ul style="list-style-type: none"> • Up to 256 (128 on 2.4 GHz, 128 on 5 GHz)

*1: RF output power doesn't contain antenna gain
 *2: Maximum power is limited by local regulatory requirements
 *3: Some channels are restricted by local regulatory requirements

QUALITY OF SERVICE

- Wireless QoS (802.11e/WMM)
- DSCP (802.1p)
- Airtime Fairness
- Band Steering
- Multicast to Unicast Conversion
- Optimal Client Filtering

MANAGEMENT

Deployment	<ul style="list-style-type: none"> ♦ Standalone ♦ Tunneled management by 4ipnet WHG Controller ♦ IPv4 & IPv6 compatible
Configuration	<ul style="list-style-type: none"> ♦ Web User Interface (HTTP/HTTPS) ♦ SNMP v1, v2c, v3

SECURITY

- | | |
|-----------------------|--|
| Wireless Security | <ul style="list-style-type: none"> ♦ WEP ♦ WPA/WPA2 Mixed (TKIP/AES Mixed) ♦ WPA2-Personal (AES) ♦ WPA2-Enterprise (AES) |
| VLAN Tagging (802.1Q) | |
| Station Isolation | |
| DHCP Snooping | |
| Layer-2 Firewall | |

MOBILITY/ROAMING

- Layer 2/Layer 3 Fast Roaming

RECEIVE SENSITIVITY

Operating Mode	Data Rate	Receive Sensitivity (dBm)
802.11b	1 Mbps	-93
	11 Mbps	-84
802.11a	6 Mbps	-83
	54 Mbps	-66
802.11g	6 Mbps	-83
	54 Mbps	-68
802.11n (HT20)	MCS0	-85
	MCS7	-64
	MCS8	-61
	MCS15	-65
802.11n (HT40)	MCS0	-85
	MCS7	-61
	MCS8	-59
	MCS15	-64
802.11ac (VHT20)	MCS0	-82
	MCS8	-60
802.11ac (VHT40)	MCS0	-80
	MCS9	-54
802.11ac (VHT80)	MCS0	-76
	MCS9	-54

SIGNAL COVERAGE PATTERN

