

## WAP-W3

# ENTERPRISE-CLASS, ULTRA HIGH POWER WIRELESS ACCESS POINT

Continuing the Pakedge tradition of consistent RF output and long-term reliability, the Pakedge WAP-W3 is an Enterprise-Class, ultra high power wireless access point that is wall-mountable or can be set on a flat surface. The WAP-W3 features adjustable power output/range. We optimized the WAP-W3 for use with touch panels and other control devices without sacrificing data throughput.

The WAP-W3 not only supports 802.11b/g (2.4GHz), but 802.11a (5.0GHz) as well. On the 5.0GHz spectrum, the WAP-W3 supports all FCC allowable channels, including DFS. Designed for the custom installer, the WAP-W3 is networked and powered by a single Cat5e cable. In addition, it can be powered by most PoE switches on the market today because it is fully 802.3af compliant.

The WAP-W3 housing is made of a rugged, heavy gauge aluminum that can handle any interior environment such as an attic or a wiring closet. At the same time, it is sleek and unobtrusive enough to appear in any formal setting.

### KEY FEATURES

Dual 802.11b/g and 802.11a radio configuration with high data speed - 54 Mbps.

Industry-leading, software-controlled, variable power output (28dBm) for maximum performance, range, and security.

Supports latest security standards such as WPA, WPA2, AES, TKIP, WEP, RADIUS, MAC Filtering, and SSID Hide.

Remote management, remote update, and file configuration upload capability.

Power-over-Ethernet - fully compatible with IEEE 802.3af. Accepts PoE power from any 802.3af switch or power supply. Overload and short circuit protection shuts down power immediately when short circuit is detected with no harm to PoE system.

Rugged aluminum housing designed for maximum protection from interference and efficient cooling.

WDS (AP to AP) Repeater and Bridging (Point-to-Point and Point-to-Multipoint) - operating modes extend range to detached structures, i.e. pool house, without additional cables.

Supports all 802.11a channels currently allowed by FCC and features Dynamic Frequency Selection (DFS).

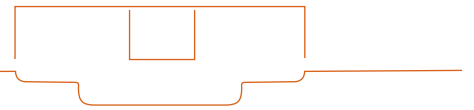


### PACKAGE CONTENTS

Wireless Access Point  
5dBi Omni-directional Antenna  
Quickstart Guide  
Category 5e Cable



\*PoE Power Injector sold separately- please contact your sales representative for options



## SPECIFICATION FOR WAP-W3

### STANDARDS:

- IEEE802.11a/b/g, IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.1f, IEEE802.1x

### DATA RATES AND FREQUENCY BAND:

- IEEE 802.11b- DSSS 11, 5.5, 2, 1 Mbps (auto fallback)
- IEEE 802.11a/g- 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps (auto fallback), Modulation- DBPSK @ 1Mbps, DQPSK @2Mbps, CCK @ 5.5 & 11Mbps, BPSK @ 6 and 9 Mbps, QPSK @ 12 and 18 Mbps, 16-QAM @ 24 and 36 Mbps, 64-QAM @ 48 and 54 Mbps
- IEEE 802.11a- Supports DFS Channels

### RF INFORMATION:

- Frequency Band- 802.11a: 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.825GHz, North America Channels- Non DFS- 36, 40, 44, 48, 149, 153, 157, 161, & 165; DFS- 52, 56, 60, 64
- Frequency Band- 802.11b/g: U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations. Operating Channels- 11 for North America, 14 for Japan, 13 for Europe.
- Receive Sensitivity (Typical)-
  - 5.15~5.85G(IEEE802.11a)- Up to -88dBm
  - 2.412~2.472G(IEEE802.11g)- Up to -91dBm
  - 2.412~2.472G(IEEE802.11b)- Up to -90dBm
- Available Transmit Power (Typical)
  - 5.15~5.24 GHz (IEEE802.11a), Up to 19dBm
  - 5.26~5.35GHz (IEEE802.11a), Up to 22dBm
  - 5.745~5.85GHz (IEEE802.11a), Up to 20dBm
  - 2.412~2.472G (IEEE802.11g), Up to 28dBm
  - 2.412~2.472G (IEEE802.11b), Up to 28dBm

### POWER REQUIREMENTS:

- Ethernet POE in: 36~57VDC for IEEE 802.3af compliant
- WAP-W3 Device- 12V / 1.0 A
- Power Supply: 90 to 240 VDC ± 10% (depends on different countries)

### OPERATION MODE:

- Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ WDS

### MANAGEMENT AND SECURITY:

- Remote mangement via HTTP, SNMP V1, and Telnet
- Security- IEEE802.1x Authenticator / RADIUS Client (EAP-MD5/TLS/TTLS) Support in AP Mode; WPA/WPA2 supplicant support in Client Bridge mode; WPA2/WPA/Pre-share Key (PSK)/AES/TKIP
- MAC address filtering (AP mode)
- Layer 2 Isolation
- Hide SSID in beacons
- IP Auto-configuration- DHCP client/server
- Firmware upgrade via HTTP

### MECHANICAL:

- Dimensions- 6.4" x 4.2" x 1.4" L x W x D
- Weight- 9 oz.
- Housing- 14 gauge Anodized Aluminum Electronic Housing
- Antenna- 5 dbi Omni Directional; Connection- RP-TNC Female
- Interface- One 10/100Mbps RJ-45 LAN or LAN/PoE Port, DC power option if PoE is not used

### ENVIRONMENTAL:

- Temperature Range-
  - Operating: -10°C to 50°C (14°F to 132°F)
  - Storage: -40°C to 70°C (-40°F to 158°F)
- Humidity- 5%~95% Typical

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