

# PAKEDGE WA-2200-O

## 802.11AC 2x2 WAVE 2 OUTDOOR ACCESS POINT WITH BAKPAK LITE

### Description

The WA Series WA-2200-O is a next-generation Wave 2 outdoor AP designed to extend exceptional Wi-Fi outdoors. An IP55-rated weather- and dust-resistant enclosure withstands temperatures from -20 °C to 65 °C (-4 °F to 149 °F), making this AP ideal for even the most severe outdoor conditions.

The WA-2200-O is engineered with a high-speed chipset that delivers faster speeds, optimal coverage, and smooth roaming to the outdoors. Next-generation 802.11ac Wave 2 MU-MIMO and beamforming technology provide better performance to more high-speed devices simultaneously, while promising exceptional quality for 4K/HD video streaming applications.

The WA-2200-O offers a fast and easy setup process designed to streamline your deployments. This AP supports complete cloud configuration for single- and multi-AP deployments through BakPak, cutting down on install time and eliminating controller hardware costs.

Like other WA Series APs, the WA-2200-O features a sleek, aesthetically designed form factor that will delight your customers. Flexible wall or pole mounting options and internal antennas ensure this access point can be easily hidden out of sight without compromising coverage. Plus, 802.11af PoE compliance eliminates extra wiring and reduces PoE power draw.

### Feature and benefit highlights

- 802.11ac Wave 2 high-performance outdoor access point
- High-speed chipset with quad-core CPU
- 2x2:2 Wave 2 MU-MIMO and beamforming technology
- 1,300 Mbps max data rate (400 Mbps for 2.4 GHz; 867 Mbps for 5 GHz)
- Dust- and water-resistant IP55 rating designed to withstand temperatures from -20 °C to 65 °C (-4 °F to 149 °F)
- 802.11k/v/r roaming standards
- BakPak Lite built in for complete cloud configuration and management
- Controller-less multi-AP deployments with BakPak
- Powered by 802.3af PoE (power supply sold separately)
- Flexible wall or pole mounting options
- Small, sleek form factor with aesthetic design



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## Features

### Next-generation chipset

The WA-2200-O features an all-new, high-speed chipset with a quad-core CPU that delivers accelerated processing power and faster speeds to client-dense projects. It also delivers an exceptional roaming experience with real-time VoIP and video streaming applications anywhere in the home.

### Wave 2 MU-MIMO technology

Next-generation Wave 2 802.11ac AP with MU-MIMO (multi-user, multi-input, multi-output) technology enables multiple, simultaneous connections to devices, dramatically improving wireless network performance.

### Beamforming technology

Beamforming technology focuses the AP's RF signal in the direction of devices demanding sustained throughput—eliminating latency and delivering optimal performance for high-speed devices and real-time applications (VoIP, 4K/HD video, real-time gaming, and more).

### IP55 dust- and water-resistant enclosure

With an IP55-rated weather-resistant enclosure that withstands temperatures from -20 °C to 65 °C (-4 °F to 149 °F), this AP can be deployed in the most severe outdoor environments. A sealed water gasket keeps water out, and the UV-treated faceplate is resistant to solar damage, keeping this AP looking like new for years to come.

### Redesigned setup process

Setup is fast and easy thanks to single-page setup and intuitive navigation that saves time and reduces configuration errors.

### Username and password requirement for increased security

The new username and password requirement for the WA-2200-O login credentials requires default settings to be changed upon setup to ensure your customers are protected.

### Streamlined multi-AP deployments with BakPak

Multi-AP deployments are now easier than ever with BakPak. Complete BakPak cloud configuration enables controller-less multi-AP deployments, eliminating additional hardware costs and reducing deployment time. Discover additional APs on the network and, with a single click, automatically enroll each AP to BakPak. After discovery, push all configuration settings to all connected APs in just minutes.

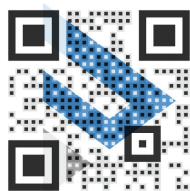
### BakPak remote management and configuration

With BakPak Lite built in, it's easy to configure, monitor, and manage your customers' wireless networks remotely. Receive alerts, update firmware, or push wireless configuration settings—to a single AP or multi-AP systems—from your desktop or mobile app.

### Installer friendly with flexible mounting

The WA-2200-O easily mounts to a wall or pole, and its sleek form factor with internal antennas ensures it stays discreetly out of sight without compromising coverage. The included mounting accessory kit will streamline your installs and save you time.

MOST RECENT DATA SHEET



[pkdge.co/wa2200o-ds](http://pkdge.co/wa2200o-ds)

QUICK START GUIDE



[pkdge.co/wa2200o-qsg](http://pkdge.co/wa2200o-qsg)

USER GUIDE



[pkdge.co/wa2200-ug](http://pkdge.co/wa2200-ug)

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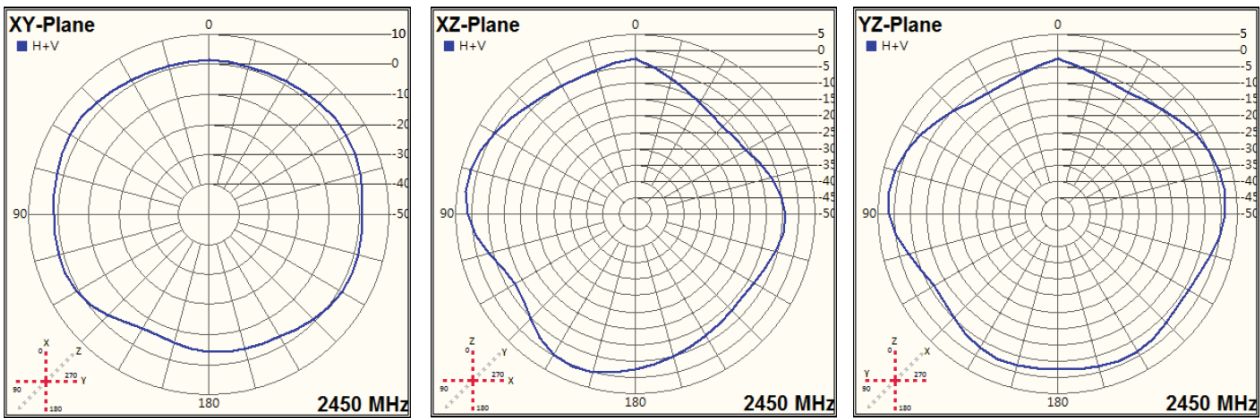
## FEATURES AND SPECIFICATIONS

| <b>FEATURES</b>       |  | <b>DESCRIPTION</b>   |
|-----------------------|--|--|
| Radio settings        |  | <ul style="list-style-type: none"><li>• Operating frequencies: Dual band (5 GHz and 2.4 GHz)</li><li>• 2x2 Wave 2 MU-MIMO</li><li>• Beamforming technology</li><li>• Data rate up to 1,300 Mbps (867 Mbps for 5 GHz; 400 Mbps for 2.4 GHz)</li><li>• Operation mode: AP</li><li>• Channel width: 5 GHz: VHT 20, 40, 80 MHz; 2.4 GHz: HT 20 &amp; 40 MHz</li><li>• Auto-channel</li><li>• Band steering</li></ul> |
| Management            |  | <ul style="list-style-type: none"><li>• Quick setup, intuitive web interface</li><li>• BakPak Lite Remote Management built in</li><li>• Single and multi-AP configuration with BakPak</li><li>• Local and cloud firmware management</li><li>• VLAN support, management VLAN</li><li>• SNMP</li><li>• Diagnostics: Ping and traceroute</li><li>• Remote reboot and reset</li></ul>                                |
| Wireless settings     |  | <ul style="list-style-type: none"><li>• 8 secure SSIDs (4 per band) + 2 guest SSIDs (1 per band)</li><li>• WPA and WPA2-PSK security encryption</li><li>• Hide SSID</li><li>• Client isolation</li><li>• Spanning Tree Protocol</li><li>• RF scan</li><li>• Industry roaming standards 802.11r, 802.11k, and 802.11v</li><li>• RSSI threshold and client reject</li></ul>  |
| Administration        |  | <ul style="list-style-type: none"><li>• LED enable/disable (global/individual AP)</li><li>• System log and report</li><li>• Back up and restore configuration</li><li>• Services (RF coverage, sub-optimal radio configuration)</li><li>• Client device monitoring</li></ul>   |
| <b>SPECIFICATIONS</b> |  |  |
| Transmit power        |  | WA-2200-O: 25 dBm on both 5 GHz and 2.4 GHz<br>WA-2200-O-1: Varies, based on the country where installed   |
| Receive sensitivity   |  | -91 dBm  |
| Encryption options    |  | WA-2200-O: WPA-PSK, WPA2-PSK, WPA/WPA2 mixed using TKIP or AES<br>WA-2200-O-1: AES WPA/WPA2 -PSK with AES encryption   |
| Input power           |  | WA-2200-O: PoE+ 802.3at<br>WA-2200-O-1: PoE+ 802.3at   |
| PoE power draw        |  | 21W  |
| NK1-CP1 compatible    |  | No   |
| <b>MECHANICAL</b>     |  |  |
| Mounting options      |  | Outdoor bracket  |
| LED                   |  | (single) white=power on, blue=booting up, green=operating normally   |
| Buttons               |  | Reset  |
| Ports                 |  | Power, 1 LAN/PoE   |
| Dimensions (W×H×D)    |  | 181 × 304 × 34 mm (7.13 × 11.97 × 1.34 in.)  |
| Weight                |  | 741 g (26 oz.)   |
| Included accessories  |  | Quick Start Guide, Ethernet cable, mounting template, bracket, and hardware  |
| <b>ENVIRONMENTAL</b>  |  |  |
| Operating temperature |  | 0 °C to 45 °C (32 °F to 113 °F)  |
| Storage temperature   |  | -20 °C to 65 °C (-4 °F to 149 °F)  |
| Humidity              |  | 10%-90% non-condensing   |

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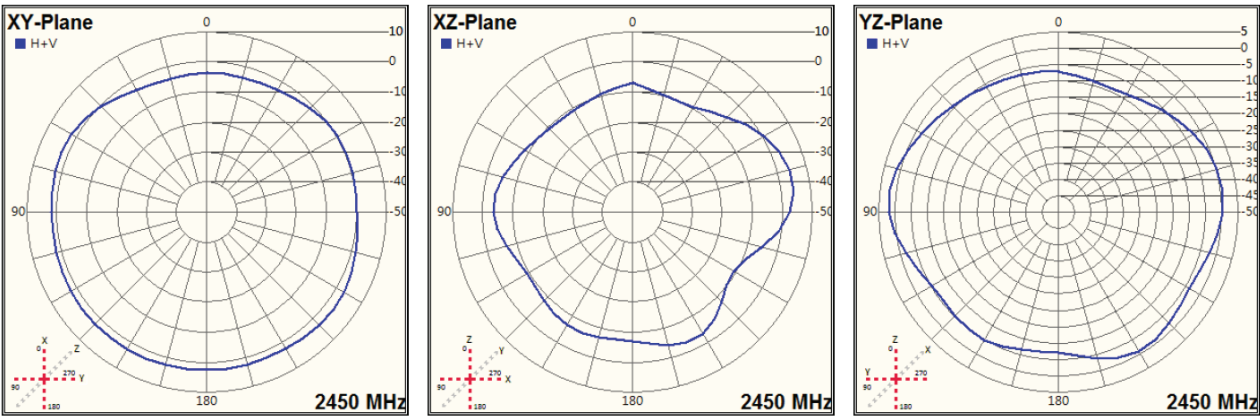
## 2.4 GHz RF performance

### Antenna 1



| Frequency (MHz) | 2400  | 2450  | 2500  |
|-----------------|-------|-------|-------|
| Efficiency (dB) | -1.58 | -1.76 | -1.50 |
| Efficiency (%)  | 69.58 | 66.66 | 70.82 |
| Gain (dBi)      | 3.54  | 3.34  | 2.99  |

### Antenna 2



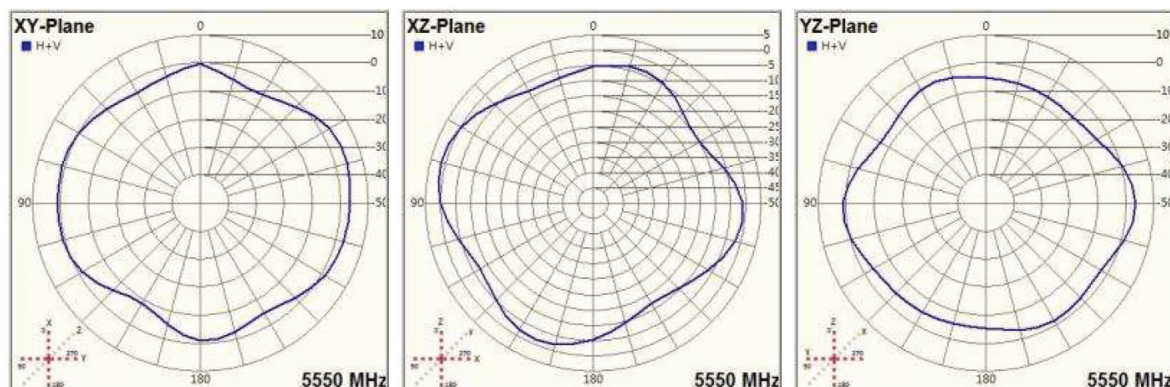
| Frequency (MHz) | 2400  | 2450  | 2500  |
|-----------------|-------|-------|-------|
| Efficiency (dB) | -1.88 | -1.91 | -1.61 |
| Efficiency (%)  | 64.88 | 65.45 | 69.05 |
| Gain (dBi)      | 3.55  | 3.01  | 3.17  |



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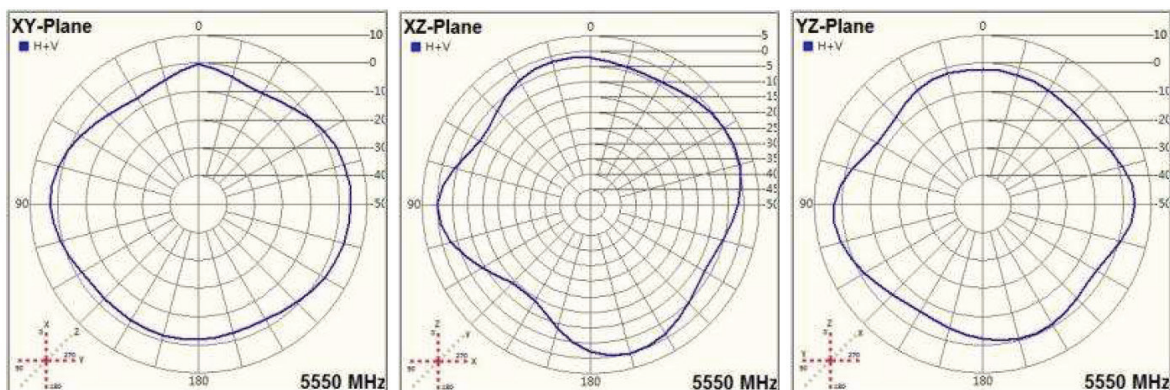
## 5 GHz RF performance

### Antenna 3



| Frequency (MHz) | 5150  | 5250  | 5350  | 5450  | 5550  | 5650  | 5750  | 5850  |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficiency (dB) | -3.08 | -2.04 | -1.46 | -1.57 | -2.76 | -2.97 | -2.86 | -3.54 |
| Efficiency (%)  | 49.24 | 62.40 | 71.44 | 69.64 | 52.91 | 50.43 | 51.75 | 44.17 |
| Gain (dBi)      | 4.54  | 5.28  | 5.57  | 5.51  | 4.56  | 4.44  | 4.48  | 4.85  |

### Antenna 4



| Frequency (MHz) | 5150  | 5250  | 5350  | 5450  | 5550  | 5650  | 5750  | 5850  |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Efficiency (dB) | -2.54 | -2.02 | -1.48 | -1.50 | -2.66 | -2.96 | -2.44 | -3.05 |
| Efficiency (%)  | 55.78 | 62.84 | 71.16 | 70.76 | 54.26 | 50.54 | 56.96 | 49.54 |
| Gain (dBi)      | 4.98  | 5.70  | 6.26  | 5.98  | 4.27  | 4.20  | 4.46  | 4.38  |

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