

PAKEDGE WA-2200-O

802.11AC 2x2 WAVE 2 OUTDOOR ACCESS POINT

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 -40 °C to 70 °C (-40 °F to 158 °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.

OvrC is our built-in, free remote management and monitoring platform designed exclusively for professional integrators. Through an easy-to-use web or mobile app, OvrC empowers you to set up, monitor, and troubleshoot connected devices remotely, helping to minimize truck rolls and deliver world-class support to your clients.

OvrC also enables fast wireless installs with cloud-enabled OvrC Wi-Fi Management. From a single view, you can add/edit networks, manage SSIDs and passwords, and configure channel, channel bandwidth, transmit power levels, and roaming features - all from the OvrC mobile or web app.

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, 802.3at 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 -40 °C to 70 °C (-40 °F to 158 °F)
- 802.11k/v/r roaming standards
- OvrC remote management built in
- OvrC Wi-Fi Management for cloud setup and configuration
- Powered by 802.3at 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 -40 °C to 70 °C (-40 °F to 158 °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.

OvrC remote management

The WA-2200 offers built-in OvrC, empowering you to install, set up, and remotely manage your client's network from anywhere in the world. With OvrC, you can troubleshoot, reboot, update firmware, and more – all 100% remotely via the OvrC desktop or mobile app.

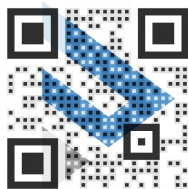
OvrC Wi-Fi Management

Save time and money setting up your next wireless install with OvrC Wi-Fi Management. From a single view, add/edit networks, manage SSIDs and passwords, and configure channel, channel bandwidth, transmit power levels, and roaming features – all from the OvrC mobile or web app. Push settings to select or all APs in a single click to shave minutes – if not hours – off setup time.

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

QUICK START GUIDE



pkdge.co/wa2200o-qsg

USER GUIDE



pkdge.co/wa2200-ug

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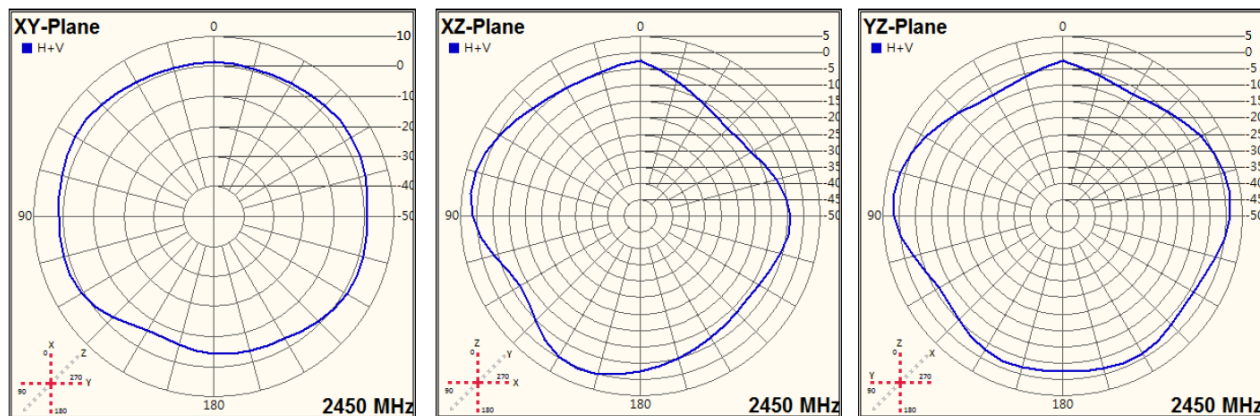
FEATURES AND SPECIFICATIONS

<u>FEATURES</u>	<u>DESCRIPTION</u>
Radio settings	<ul style="list-style-type: none">• Operating frequencies: Dual band (5 GHz and 2.4 GHz)• 2x2 Wave 2 MU-MIMO• Beamforming technology• Data rate up to 1,300 Mbps (867 Mbps for 5 GHz; 400 Mbps for 2.4 GHz)• Operation mode: AP• Channel width: 5 GHz: VHT 20, 40, 80 MHz; 2.4 GHz: HT 20 & 40 MHz• Auto-channel• Band steering
Management	<ul style="list-style-type: none">• Quick setup, intuitive web interface• OvrC remote management built in• OvrC Wi-Fi Management for cloud setup and configuration• Local and cloud firmware management• VLAN support, management VLAN• SNMP• Diagnostics: Ping and traceroute• Remote reboot and reset
Wireless settings	<ul style="list-style-type: none">• 8 secure SSIDs (4 per band) + 2 guest SSIDs (1 per band)• WPA and WPA2-PSK security encryption• Hide SSID• Client isolation• Spanning Tree Protocol• RF scan• Industry roaming standards 802.11r, 802.11k, and 802.11v• RSSI threshold and client reject
Administration	<ul style="list-style-type: none">• LED enable/disable (global/individual AP)• System log and report• Back up and restore configuration• Services (RF coverage, sub-optimal radio configuration)• Client device monitoring
<u>SPECIFICATIONS</u>	
Transmit power	WA-2200-O: 25 dBm on both 5 GHz and 2.4 GHz 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 WA-2200-O-1: AES WPA/WPA2 -PSK with AES encryption
Input power	WA-2200-O: PoE+ 802.3at WA-2200-O-1: PoE+ 802.3at
PoE power draw	21W
NK1-CP1 compatible	No
<u>MECHANICAL</u>	
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
<u>ENVIRONMENTAL</u>	
Operating temperature	-20 to 65 °C (-4 to 149 °F)
Storage temperature	-40 to 70 °C (-40 to 158 °F)
Humidity	0%-90% non-condensing

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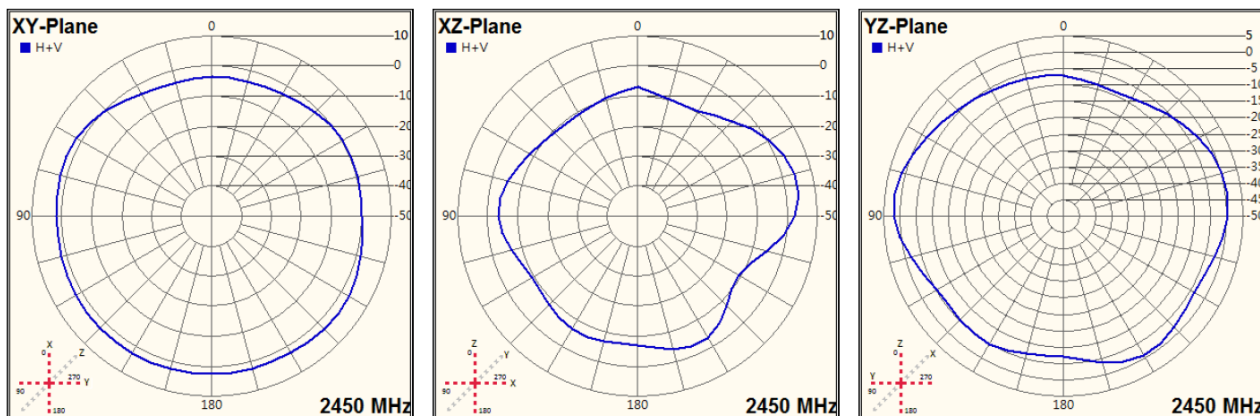
2.4 GHz RF performance

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

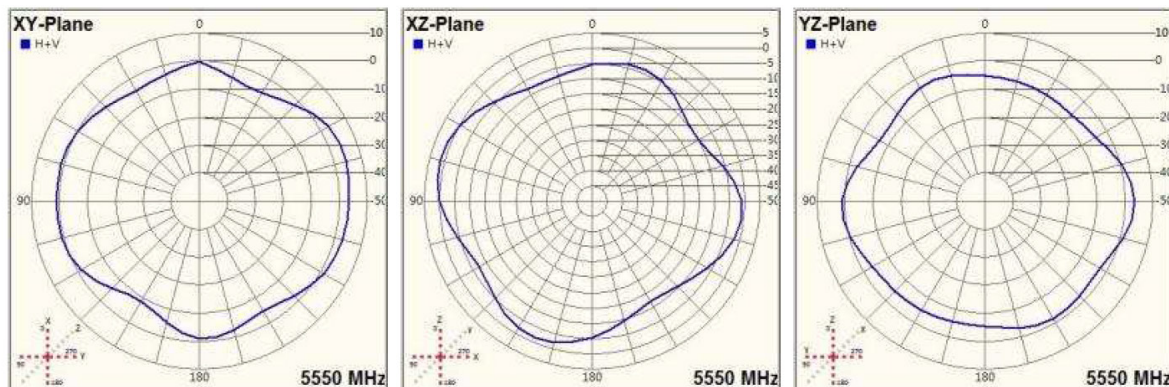


Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-1.88	-1.91	-1.61
Efficiency (%)	64.88	65.45	69.05
Gain (dBi)	3.55	3.01	3.17

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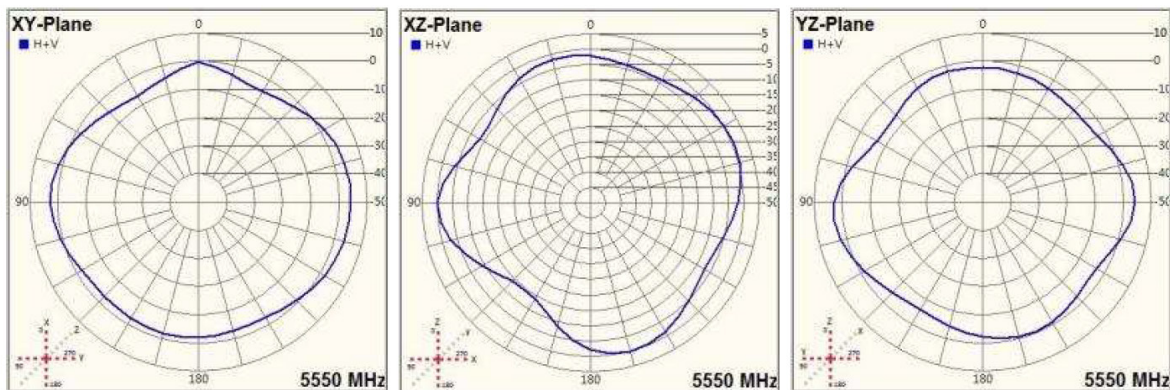
5 GHz RF performance

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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