

# PAKEDGE WA-4200

## 802.11AC 4x4 WAVE 2 ACCESS POINT

### Description

Designed for pros, the Pakedge WA-4200 Wave 2 Indoor Access Point delivers exceptional performance for your most demanding customers. It's ideal for high-density residential and commercial jobs where speed is critical. Engineered with 4x4 MU-MIMO Wave 2 wireless technology and a max data rate of 2,600 Mbps, the WA-4200 can transmit to twice as many devices simultaneously compared to 2x2 APs.

The WA-4200 is engineered with a new, high-speed chipset that delivers faster speeds, greater reliability, and smooth client handoffs anywhere in the home. Beamforming technology focuses and directs the wireless signal to improve performance for bandwidth-intensive devices and real-time 4K/HD applications.

WA Series access points are designed to save installers time. All WA Series access points include easy-to-use mounting templates and accessories to significantly reduce installation time using an easy 3-step process. They also include OvrC, which delivers a streamlined multi-AP deployment process and enables complete cloud configuration and management to reduce service calls and install time.

### Feature and benefit highlights

- Next-generation 802.11ac Wave 2 technology
- 4x4 MU-MIMO antenna design
- Up to 2,600 Mbps max data rate
- Beamforming technology
- 802.11r/k/v roaming standards
- Auto-channel selection
- 8 secure SSIDs (4 per band) + 2 guest SSIDs (1 per band)
- WPA-WPA2-PSK security encryption
- OvrC cloud configuration and remote management
- Two 1 Gbps Ethernet ports
- Link aggregation (LACP)
- Dynamic Frequency Selection (DFS)
- Powered by 802.3at PoE+
- Mounting template and accessory kit included
- In-ceiling bracket (ICBKT-WA-4200)



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## Features

### Wave 2 Wireless AC technology

With a 4×4 antenna configuration and MU-MIMO (multi-user, multi-input, multi-output) Wave 2 wireless technology, the WA-4200 delivers superior wireless in high-density projects where client devices and users are within close proximity.

### High-speed chipset

The WA-4200 features an all-new, high-speed chipset with a quad-core CPU that delivers accelerated processing power and faster speeds to client-dense smart homes. It also delivers an exceptional roaming experience with real-time VoIP and video streaming applications anywhere in the home.

### 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).

### Redesigned setup process

The WA-4200 streamlines setup and configuration for single- and multi-AP deployments. Getting your AP set up is fast and easy with key setup features—including username and password, SSIDs, and guest networks—listed on a single page. Intuitively navigate to advanced settings on other tabs.

### Username and password requirement for increased security

The new username and password requirement for the WA-4200 login credentials requires default settings to be changed upon setup to ensure your customers are protected.

### Multi-AP deployments made easy with OvrC

OvrC enables complete cloud configuration for multi-AP deployments, eliminating additional controller hardware costs while reducing deployment time. Discover additional APs on the network and, with a single click, automatically enroll each AP to OvrC. After discovery, push all configuration settings to all connected APs in just minutes.

### OvrC remote management and configuration

With OvrC, it's easy to configure, monitor, and manage your customers' wireless networks remotely. Receive alerts, update firmware, or push wireless configuration settings from your desktop or mobile app.

### Link aggregation

The WA-4200 features two Gigabit Ethernet LAN ports and link aggregation to maximize throughput when using a standard managed gigabit switch.

### Dynamic frequency selection

A useful feature for projects located in apartments, condos, or busy neighborhoods, dynamic frequency selection (DFS) unlocks less-congested Wi-Fi channels, where possible, to improve wireless performance.

### 802.3at PoE+ compliance

802.3at PoE+ compliance eliminates extra wiring and reduces PoE power draw.

MOST RECENT DATA SHEET



[pkdge.co/wa4200-ds](http://pkdge.co/wa4200-ds)

QUICK START GUIDE



[pkdge.co/wa4200-qsg](http://pkdge.co/wa4200-qsg)

USER GUIDE



[pkdge.co/wa4200-ug](http://pkdge.co/wa4200-ug)

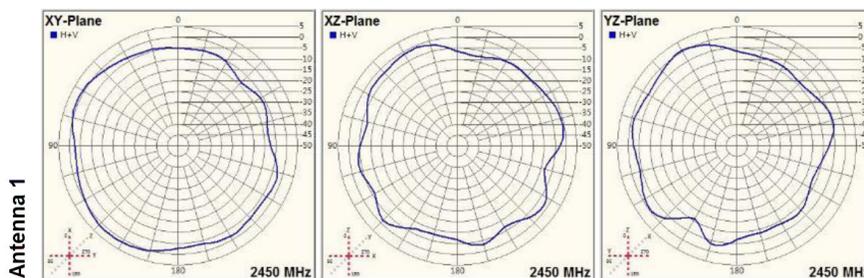
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## FEATURES AND SPECIFICATIONS

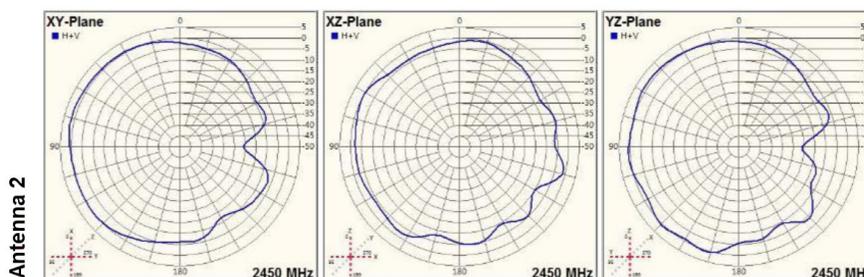
<b>FEATURES</b>	<b>DESCRIPTION</b>
Radio settings	<ul style="list-style-type: none"><li>• Operating frequencies: Dual band (5 GHz and 2.4 GHz)</li><li>• 4x4:4 Wave 2 MU-MIMO</li><li>• Beamforming technology</li><li>• Data rate up to 2,600 Mbps max data rate (1,733 Mbps for 5 GHz; 800 Mbps for 2.4 GHz)</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>• OvrC remote management built in</li><li>• Single and multi-AP configuration with OvrC</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-4200: 25 dBm on both 5 GHz and 2.4 GHz WA-4200-1: Varies, based on the country where installed
Receive sensitivity	-91 dBm
Encryption options	WA-4200: WPA-PSK, WPA2-PSK, WPA/WPA2 mixed using TKIP or AES WA-4200-1: AES WPA/WPA2 -PSK with AES encryption
Input power	WA-4200: PoE+ 802.3at, or 12V/2A w/ optional power supply (sold separately) WA-4200-1: PoE+ 802.3at, or 12V/2A w/ optional power supply (sold separately)
PoE power draw	22W
NK1-CP1 compatible	No
<b>MECHANICAL</b>	
Mounting options	Wall bracket
LED	Blinking yellow=booting up, blue=powered on, red=critical alarm
Buttons	Reset
Ports	2 x LAN Ports, with LAN 1 supporting PoE+
Dimensions	207 x 207 x 37 mm (8.2 x 8.2 x 1.5 in.)
Weight	0.57 kg (1.25 lb.)
Included accessories	Quick Start Guide, Ethernet cable, mounting template, wall bracket, and hardware
Optional accessory	In-ceiling mount bracket (ICBKT-WA-4200)
<b>ENVIRONMENTAL</b>	
Operating temperature	0 to 45 °C (32 to 113 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)
Humidity	10%-90% non-condensing

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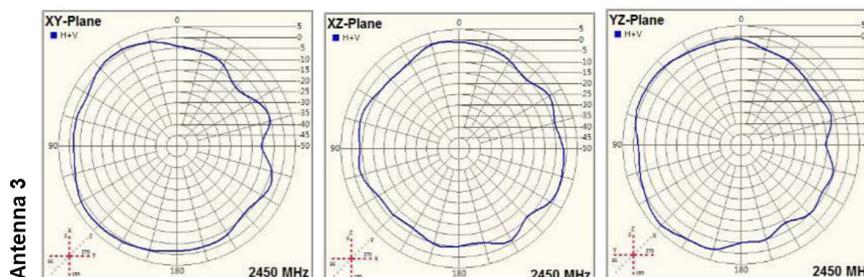
## 2.4 GHz RF performance



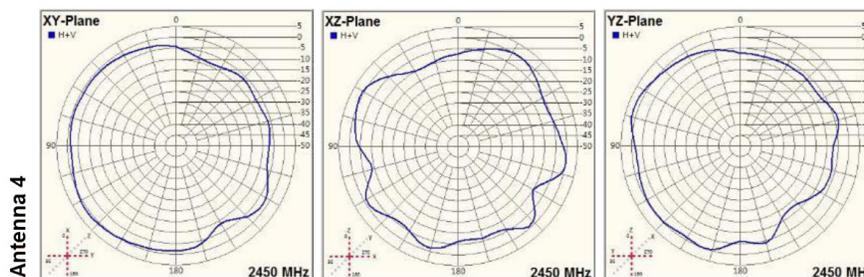
Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-2.10	-2.38	-2.18
Efficiency (%)	61.62	57.79	60.50
Gain (dBi)	2.86	2.67	3.81



Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-2.52	-2.05	-0.78
Efficiency (%)	55.94	62.38	83.64
Gain (dBi)	2.44	3.12	3.98



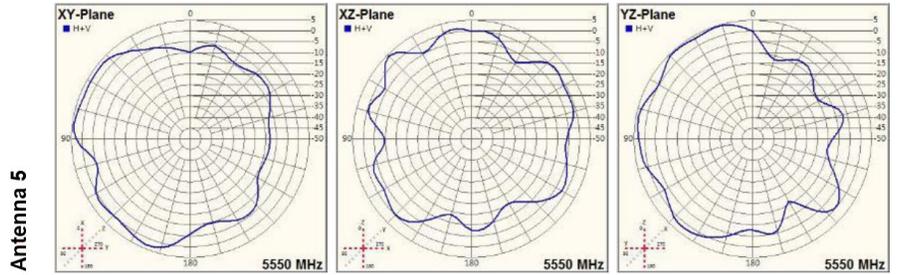
Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-1.94	-1.67	-0.92
Efficiency (%)	64.05	68.14	80.92
Gain (dBi)	2.90	3.14	3.47



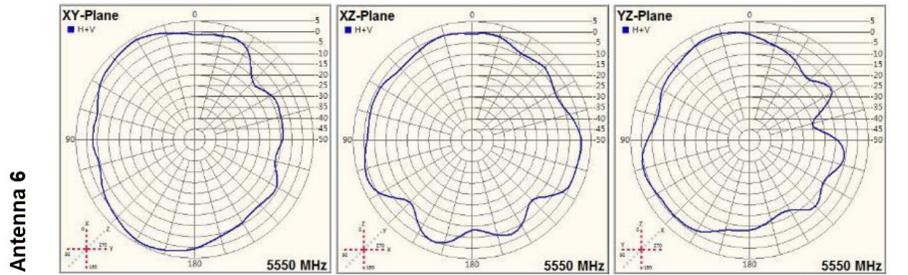
Frequency (MHz)	2400	2450	2500
Efficiency (dB)	-2.05	-2.02	-1.50
Efficiency (%)	62.43	62.87	70.83
Gain (dBi)	3.23	3.29	3.75

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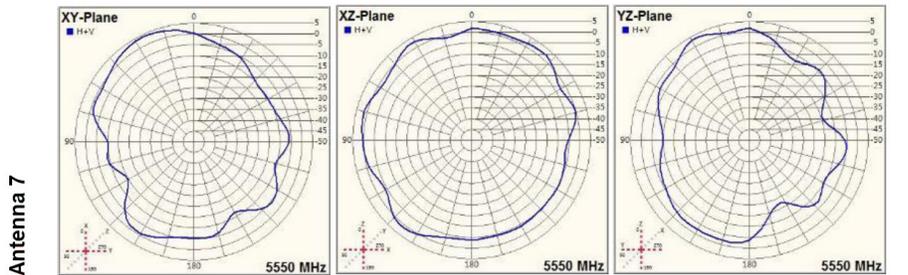
## 5 GHz RF performance



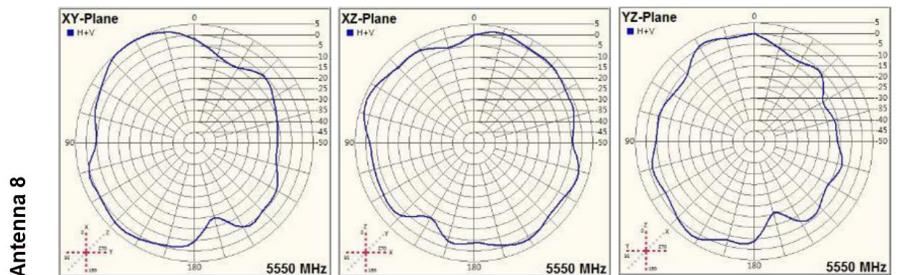
Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dB)	-1.75	-1.81	-2.25	-1.03	-1.03	-1.52	-1.68	-1.46
Efficiency (%)	66.85	65.94	59.53	78.84	78.82	70.50	67.97	71.52
Gain (dBi)	4.78	4.54	3.61	5.42	5.65	4.41	5.07	5.01



Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dB)	-1.39	-1.45	-2.16	-1.36	-1.26	-1.74	-1.56	-1.35
Efficiency (%)	72.58	71.56	60.78	73.12	74.81	66.97	69.77	73.21
Gain (dBi)	3.69	4.61	3.64	4.36	4.59	3.64	4.81	5.50



Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dB)	-1.29	-1.12	-1.62	-0.48	-0.34	-1.22	-1.46	-0.79
Efficiency (%)	74.27	77.34	68.84	89.45	92.56	75.58	71.51	83.38
Gain (dBi)	4.31	4.25	3.90	5.47	5.84	5.20	4.96	5.36



Frequency (MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Efficiency (dB)	-2.24	-1.76	-2.01	-0.81	-0.38	-1.02	-1.00	-0.47
Efficiency (%)	59.75	66.76	62.94	83.04	91.66	79.09	79.36	89.75
Gain (dBi)	3.66	4.15	3.57	5.33	4.98	4.75	4.70	5.84

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