

## Expanded Capabilities

### 802.11 Wireless Sensor for Gap-free Security

Trust the AP 8432 to deliver best-in-class PCI compliance and security with AirDefense\*. Unlike other sensors that scan only part-time, this dedicated, dual-band 802.11ac sensor scans for rogue devices full time, eliminating the risk of being blindsided by them. Once a threat is detected, it is checked with an extensive security and network vulnerability signature database to proactively safeguard your network.

### Two-in-One Bluetooth® Sensor

For Security and Location Services: Monitor BT2.0 devices in the environment using the AP 8432 and ADSP Security Appliance. Map BT2.0 devices, and analyze for potential security threats.

### Communicate with Every Customer

Due to its ubiquitous nature, Bluetooth is an excellent means to engage customers. The AP 8432 supports Apple iBeacon™ to communicate with a loyalty app on a customer's smartphone. Using Google Eddystone™, enterprises can send advertisements directly to shoppers, guests, and conference attendees, even without a loyalty app pre-installed. This makes it ideal for businesses to advertise their app-download pages, captive portals, or site-specific information.

### RF Spectrum Sensor

Maximize performance and visibility without compromise. Using the dedicated full-time RF spectrum sensor, you can monitor and identify RF interference without slowing down throughput on the data radios.



Zapraszamy do kontaktu!  
Więcej informacji: [www.kreski.pl](http://www.kreski.pl)



## ExtremeWireless™ WiNG 8432 Wave 2 Access Point

Do More Today. Add the Internet of Things Tomorrow with a True 802.11ac Access Point

### Product Overview

Imagine what your business could do with a wireless network up to eight times wider and faster. Now picture having a WLAN that pushes contextual offers to customers, provides strategic-shaping analytics, and automatically wards off interference and security risks. As if that isn't enough, the unmatched benefits of the ExtremeWireless WiNG AP 8432 don't stop there. With built-in PoE Out (Power over Ethernet), it connects with any third-party Internet of Things network. Connect IP video cameras to count customers and reduce shrinkages; add wireless temperature sensors and more. All this can be achieved without the cost and complexity of competitor alternatives, which require multiple access points, cables, and Ethernet switch ports.

### High-Density Network

Our true 802.11ac Wave 2 access point, along with the high-density optimization in ExtremeWireless WiNG 5, maximizes the value of MU-MIMO. The AP 8432 supports hundreds of wireless clients and concurrent transmissions critical for any enterprise.

### Easy IoT Adoption

The ExtremeWireless WiNG AP 8432 seamlessly integrates IoT devices via the secondary Gigabit Ethernet port, providing full 802.3af power and IP connectivity. For advanced management of your IoT network, the AP 8432 can treat each port as a Layer 2 or Layer 3 interface, offering router services, IP firewalls, and multiple packet forwarding modes.

## Unmatched Performance

Using the Integrated Deep Packet Inspection (DPI) engine, along with the ExtremeWireless Platform\*, the AP 8432 tirelessly optimizes the network.

From RF errors to key performance indicators, the AP 8432 collects data to measure, monitor, and secure application performance. Thanks to its intelligent distributed architecture—ExtremeWireless WiNG 5—it can proactively adjust to deliver the fastest, most reliable experience.

## Unrivalled Scalability From 1 to Cloud

With a modern, WiNG 5 distributed operating system, the AP 8432 offers four deployment modes to meet any requirement: stand-alone AP, virtual controller mode for creating networks of up to 64 access points, NOC controllers scaling to 25,000 access points.

## Expanded Capabilities with Extreme's Triple Sensor Technology

Access more possibilities with the AP 8432. The AP 8432 has integrated three powerful sensors that optimize security, customer engagement, and network performance.

## Expert Support

Reduce risk and lower your capital investment and operational costs with our support services. From planning to implementation to post-deployment, our experts will ensure every phase of your WLAN lifecycle is working at its peak, so you can too.

## Specifications

| Product Features   |  |
|--|--|
| 802.11ac Capabilities  |  |
| <ul style="list-style-type: none"> <li>• Tri-radios (Dual Wi-Fi* radios plus Bluetooth*)</li> <li>• Band-unlocked radio for Data or Dual-band 802.11 WIDS/WIPS and Location Service</li> <li>• 4x4 MU-MIMO with 4 Spatial Streams</li> <li>• Auto-Selecting MU-MIMO</li> <li>• 20, 40, and 80 MHz ChannelsPacket Aggregation (AMSDU, AMPDU) and RIFS</li> <li>• Legacy support 802.11a.b.g.n networks</li> </ul> | <ul style="list-style-type: none"> <li>• MIMO Power Save (Static and Dynamic)</li> <li>• Advanced forward error correction coding: STBC, LDPC</li> <li>• 802.11ac transmit beamforming</li> <li>• Maximal Ratio Combining (MRC)</li> <li>• NitroQAM provides up to 800 Mbps on 2.4GHz radio and up to 2166 Mbps on 5GHz radio</li> <li>• Support for up to 500 associated client devices per access point and up to 16 BSSIDs per radio</li> </ul> |
| Physical Characteristics   |  |
| Dimensions   | 8.25" x 8.25" x 1.8"<br>210mm x 210mm x 46mm   |
| Weight   | 3.0lbs, 1.27kg   |
| Housing  | Plenum-Rated Housing (UL2043)  |
| Mounting   | Included mounting bracket for flush mount or T-bar mount   |
| LEDs   | System status: Green, Amber, Blue, White   |
| LAN Ethernet   | 2x IEEE 802.3 Gigabit Ethernet auto-sensing  |
| Antenna Connectors   | Nine internal single band antennas<br>Eight for WLAN Data radios and one for Bluetooth   |
| Console  | RJ45 serial port   |
| PoE Out  | Supports 802.3af Powered Devices (PD) up to 15.4w  |
| USB  | A single 5W multi-purpose USB port   |
| User Environment   |  |
| Operating Temperature  | 32° F to 140° F/0° C to 60° C  |
| Storage Temperature  | 40° F to 158° F/-40° C to 70° C  |
| Operating Humidity   | 95% RH non-condensing  |
| Electrostatic Discharge  | ESD to ±12KV air and ±8KV contact  |
| Antenna Gain Information   |  |
| Internal Antenna   | Radio 1: 2.4GHz: 3x3 with 3SS<br>Radio 2: 5GHz: 4x4 with 4SS<br>Radio 3: Bluetooth radio with integrated antenna   |

| Product Features   |  |
|--|--|
| DC Power Specifications  |  |
| Operating Power  | Max Power Consumption with 802.3af PoE Out: 26W<br>Max Power Consumption without PoE Out: 18.2W<br>Typical Power Consumption without PoE Out: 10.3W  |
| Accessories  |  |
| Power  | PWR-BGA48V45WOWW<br>PD-9001GR-ENT  |
| Mounting   | KT-135628-01<br>BRKT-000147A-01  |
| Radio Specifications   |  |
| Wireless Medium  | DSSS, OFDM, MIMO, MU-MIMO  |
| Network Standards  | IEEE 802.11a/b/g/n/ac, 802.11d, and 802.11i WPA2, WMM, WMM-UAPSD, L2TPv3, Client 802.11b/g: 1-54 Mbps 802.11a: 6-54 Mbps 802.11n: MCS 0-31 up to 600 Mbps 802.11ac: MCS 0-9 up to 1.733 Gbps |
| Operating Channels   | 2.4 GHz band: channel 1-13<br>5.2 GHz band: channel 36-165<br>2412 to 2472 MHz, 5180 to 5850 MHz<br>Channel availability depends on local regulatory restrictions                            |
| Antenna Configuration  | Radio 1: 2.4GHz: 3x3 with 3SS<br>Radio 2: 5GHz: 4x4 with 4SS<br>Radio 3: Dual Band Sensor: 1x3 with 3SS  |
| Conducted Radio Power  | Up to 20dBm depending on local regulatory restrictions, in 1dB increments  |
| Operating Frequencies  | 2412 to 2472 MHz, 5180 to 5850 MHz   |
| Networking   |  |
| Layer 2 and Layer 3  | Layer 3 routing, 802.1q, DynDNS, DHCP server/client, BOOTP client, PPPoE, and LLDP   |
| Security   | Stateful Firewall, IP filtering, NAT, 802.1x, 802.11i, WPA2, WPA Triple-Methodology Rogue Detection: 24x7 dual-band WIPS sensing, on-board IDS, captive portal, IPSec, and RADIUS Server     |
| QoS  | WMM, WMM-UAPSD, 802.1p, Diffserv, and TOS. Role-based QoS with rule-based packet marking   |
| Maximum Radiated Transmit Power (RMS)*                           |  |
| Internal Antenna   | Radio 1:<br>- 2.4GHz band: 30.2 dBm (1040 mW)<br>- 5.2GHz band: 25.9 dBm (389 mW)<br>Radio 2: 5.2GHz band: 32.6dBm (1808 mW)<br>Radio 3: 13.7 dBm (23.4mW)                                   |
| Regulatory   |  |
| Approvals and Certifications                                     | UL / cUL 60950-1, IEC / EN60950-1, UL2043, RoHS. FCC (USA), EU, TELEC, Medical EMC standard: EN/IEC 60601-1-2  |
| Certificates   |  |
| Wi-Fi Alliance® (WFA) certified 802.11 a/b/g/n/ac, Passpoint 2.0 |  |
| Product SKU and Description                                      |  |
| AP-8432-680B30-US  | Tri-Radio 802.11ac Wave 2 with internal antennas. 4x4:4 MU-MIMO, US  |
| AP-8432-680B30-1-WR  | Tri-Radio 802.11ac Wave 2 with internal antennas. 4x4:4 MU-MIMO, WR and EMEA   |

Note: \*Maximum EIRP may vary based upon deployed country.



## Rx Sensitivity Table

|                        |          |                |    |                    | AP-8432-68SB30 |
|------------------------|----------|----------------|----|--------------------|----------------|
| Mode                   | Rate/MCS | Spatial Stream | BW | Max TX Power (DBM) | AVG SENS ANT   |
| 2G Radio               |          |                |    |                    |                |
| DSSS                   | 1        | -              | 20 | 20                 | -99            |
| DSSS                   | 11       | -              | 20 | 20                 | -              |
| OFDM                   | 54       | -              | 20 | 17                 | -81            |
| 802.11n                | MCS0     | 3SS            | 20 | 20                 | -93            |
| 802.11n                | MCS0     | 3SS            | 40 | 20                 | -90            |
| 802.11n                | MCS23    | 3SS            | 20 | 13                 | -76            |
| 802.11n                | MCS23    | 3SS            | 40 | 13                 | -73            |
| 5G Radio               |          |                |    |                    |                |
| OFDM                   | 1        | -              | 20 | 20                 | -96            |
| OFDM                   | 54       | -              | 20 | 17                 | -83            |
| 802.11ac               | MCS9     | 3SS            | 20 | 13                 | -67            |
| 802.11ac               | MCS9     | 3SS            | 40 | 13                 | -64            |
| 802.11ac               | MCS9     | 3SS            | 80 | 13                 | -61            |
| Sensor Radio - 2G Mode |          |                |    |                    |                |
| DSSS                   | 1        | -              | 20 | 20                 | -99            |
| OFDM                   | 54       | -              | 20 | 17                 | -81            |
| 802.11n                | MCS0     | 3SS            | 20 | 20                 | -93            |
| 802.11n                | MCS0     | 3SS            | 40 | 20                 | -90            |
| 802.11n                | MCS23    | 3SS            | 20 | 13                 | -76            |
| 802.11n                | MCS23    | 3SS            | 40 | 13                 | -73            |
| Sensor Radio - 5G Mode |          |                |    |                    |                |
| OFDM                   | 6        | -              | 20 | 20                 | -96            |
| OFDM                   | 54       | -              | 20 | 20                 | -80            |
| 802.11ac               | MCS9     | 3SS            | 20 | 13                 | -67            |
| 802.11ac               | MCS9     | 3SS            | 40 | 13                 | -63            |
| 802.11ac               | MCS9     | 3SS            | 80 | 13                 | -61            |



Zapraszamy do kontaktu!  
Więcej informacji: [www.kreski.pl](http://www.kreski.pl)