ExtremeWireless™ WiNG 8432 Wave 2 Access Point

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

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.



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 Extreme NSight[™] 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.



UNRIVALED 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

BO2.11AC CAPABILITIES Trivadios (Dual W-FIT radios plus Bluebletoth") Band-unloyder and is for Data or Dual-band 802.11 WDS/WIPS and Location Service Aut A Spatial Streams Aut A Spatial Streams Aut A Selecting MU-MIMO 20, 40, and 80 MHz Channels, 160 MHz and 80 MHz in a future release Packet Aggregation (AMSDU, AMPDU) and RIPS Elegacy support 802.11a.btg an etworks Physical CHARACTERISTICS 8.25° x 8.25° x 1.8° colors associated client devices per access point and up to 16 BSSIDs per radio Dimensions 2.00m s1200m x 24mm Weight 3.01bs, 127kg Mounting Included mounting backet for flush mount or T-bar mount LEDs System status: Green, Amber, Blue, White LAN Ethernet 2 System status: Green, Amber, Blue, White LAN Ethernet 2 System status: Green, Amber, Blue, White LAN Ethernet 2 System status: Green, Amber, Blue, White LAN Ethernet 2 System status: Green, Amber, Blue, White LAN Ethernet 3.01bs, 127kg Mounting Included mounting backet for flush mount or T-bar mount LEDs System status: Green, Amber, Blue, White LAN Ethernet 2 System status: Green, Amber, Blue, White LAN Ethernet 3 Supports 802.3af Powered Dovices (PD) up to 15.4w	PRODUCT FEATURES					
 Band-unlocked radio for Data or Dual-band 802.11 WIDS/WIPS and Location Service (Coding STBC, LDPC) 444 MU-MIMO with 4 Spatial Streams Auto-Selecting MU-MIMO 20, 40, and 80 MHz Channels. 160MHz and 80Mrz + 80MHz in a future relase Packet Aggregation (AMSDU, AMPDU) and RIPS Legacy support 802.11a bgn networks PrsCLC CHARACTERISTICS Dimensions 200mm 2011 2010mm 2010m 22.40mz 2010m 2010m 22.40mz 2010m 2010m 22.40mz 2010m 22	802.11AC CAPABILITIES					
Location Service • 8021lac transmit beamforming • 4x4 MU-MIMO with 4 Spatial Streams • 8021lac transmit beamforming • Auto-Selecting MU-MIMO • Maximal Ratio Combining (MRC) • 72, 40, and 80 MHz Channels. 160MHz and 80Mhz + 80MHz in a future release • Support for up to 500 Associated client devices per access point and up to 2166 Mbps • Packet Aggregation (AMSDU, AMPDU) and RIFS • Support for up to 500 associated client devices per access point and up to 2166 Mbps • Legacy support 802/lab.g.n networks • Support for up to 500 associated client devices per access point and up to 2166 Mbps • PrevietAL CHARACTERISTICS • Support for up to 500 associated client devices per access point and up to 2166 Mbps • PrevietAL CHARACTERISTICS • Support for up to 500 associated client devices per access point and up to 2166 Mbps • PrevietAL CHARACTERISTICS • Support for up to 500 associated client devices per access point and up to 2166 Mbps • PrevietAL CHARACTERISTICS • Support for up to 500 associated client devices per access point and up to 2166 Mbps • Mounting • 100 mount of T-bar mount • Borterions • 200 mm x 24mm • Mounting • 100 mount of T-bar mount • LEDS • 202 aff point Burnet ato-sensing • Anterna Connectors • Ration Supports 802 aff Powered Devices (PD) up to 140 •	Tri-radios (Dual Wi-Fi* radios plus Bluetooth*)	MIMO Power Save (Static and Dynamic)				
 4x4 MU-MIMO with 4 Spatial Streams 4x4 MU-MIMO with 4 Spatial Streams Auto-Selecting MU-MIMO 2,04,0, and 80 Mtz Channels. 160 Mtz and 80 Mtz + 80 Mtz in a future release Packet Aggregation (AMSDU, AMPDU) and RIFS Legacy support 802.118,0 an networks PHYSICAL CHARACTERISTICS Dimensions 8.25° x 8.25° x 1.8° 210 mm x 20 mm x 24 mm 8.25° x 8.25° x 1.8° 210 mm x 24 mm Mounting Included mounting bracket for flush mount or T-Bar mount LEDS System status: Green, Amber, Blue, White LAN Ethernet 22.5 (Spatial Streams) 210 mm x 24 mm System status: Green, Amber, Blue, White LAN Ethernet 22.5 (Spatial Ethernet auto-sensing) Antenna Connectors Elight for VLAN Data radios and ore for Bluetooth Console RJ45 senial port Pose Storage Temperature Storage Temperature Pose Console Antenna Connectors Betternet Storage Temperature Radio 1: 2.4GHz: 3.43 with 3.55 Radio 2: 2.5Hz: 4.4 with 4.55 Radio 2: 2.5Hz: 4.4 wi		Advanced forward error correction coding: STBC, LDPC				
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20, 40, and B0 MHz Channels. 160MHz and B0Mhz + 80MHz in a future release • NitroCAM provides up to 800 Mbps on 2.4GHz radio and up to 2/66 Mbps on 2.5GHz radio and up to 2/66 Mps on 2.5GHz radio and up to 2/66 Mps on 2.5GHz radio and u		Maximal Ratio Combining (MRC)				
a future release • Support for up to 500° associated client devices per access point and up to 16 BSSIDs per radio • Packet Aggregation (AMSDU, AMPDU) and RIFS • Ecegory support 802/lab.g.n networks PHYSICAL CHARACTERISTICS • 8.25° × 8.25° × 1.8° Dimensions 2.00mm x 24mm Weight • 0.01mm x 24mm Mounting Included mounting bracket for flush mount or T-bar mount LEDs System status: Green, Amber, Blue, White LAN Ethernet • 201mm x 24mm Antenna Connectors • Radio Sigbalt Ethernet auto-sensing Console R.145 serial port PoE Out Supports 802.34 Powered Devices (PD) up to 15.4w USB Supports 802.34 Powered Devices (PD) up to 15.4w USB A single SW multi-purpose USB port USB Supports 802.34 Powered Devices (PD) up to 15.4w USB Supports 802.34 Powered Devices (PD) up to 15.4w USB Supports 802.34 Powered Devices (PD) up to 15.4w Operating Temperature Supports 802.34 Powered Devices (PD) up to 15.4w USB Supports 802.34 Powered Devices (PD) up to 15.4w USB Supports 802.34 Powered Devices (PD) up to 15.4w Operating Temperature Supports 802.34 Powered Devices (PD) up to 1	-					
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		Max Power Consumption with 802.3af PoE Out: 26W				
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		Typical Power Consumption without PoE Out: 10.3W				



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PRODUCT FEATURES					
ACCESSORIES					
	PWR-BGA48V45W0WW				
Power	AP-PSBIAS-2P3-ATR				
	KT-135628-01				
Mounting	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 5.2 GHz band: channel 36-165 2412 to 2472 MHz, 5180 to 5850 MHz				
	Channel availability depends on local regulatory restrictions				
Antenna Configuration	Radio 1: 2.4GHz: 3x3 with 3SS				
	Radio 2: 5GHz: 4x4 with 4SS				
	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 TRASMIT POWER (RMS)					
Internal Antenna	Radio 1: - 2.4GHz band: 30.2 dBm (1040 mW) - 5.2GHz band: 25.9 dBm (389 mW)				
	Radio 2: 5.2GHz band: 32.6dBm (1808 mW)				
	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-XX	Tri-Radio 802.11ac Wave 2 with internal antennas. 4x4:4 MU-MIMO				
* WING 5.8.5 or later					



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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	MCSO	3SS	20	20	-93			
802.11n	MCSO	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	355	20	13	-67			
802.11ac	MCS9	3SS	40	13	-64			
802.11ac	MCS9	3SS	80	13	-61			
SENSOR RADIO - 2G MC	SENSOR RADIO - 2G MODE							
DSSS	1	-	20	20	-99			
OFDM	54	-	20	17	-81			
802.11n	MCSO	3SS	20	20	-93			
802.11n	MCSO	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	355	80	13	-61			

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