ExtremeWireless™ WiNG 8533 Wave 2 Access Point

True 802.11ac Access Point with Eight Times the Capacity and Triple the Sensors

EXPANDED CAPABILITIES

802.11 WIRELESS SENSOR FOR GAP-FREE SECURITY

Trust the AP 8533 to deliver best-in-class PCI compliance and security with Extreme 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 8533 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 8533 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

Ever-increasing demand to support more mobile devices and applications, as well as customer engagement, redefines the network year after year. Jump to the front of the line with the new ExtremeWireless WiNG AP 8533. This innovative access point features true 802.11ac Wave 2 capabilities and Extreme Triple Sensor technology to support your growing business and customer needs. Personalize the shopping experience with Bluetooth[®] Low Energy (BLE) beacons, secure the network from existing and new threat vectors, and deepen network visibility of applications running over your wireless LAN. With AP 8533's advanced capabilities, you can prevent "upgrade fatigue."

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 8533 supports hundreds of wireless clients and concurrent transmissions critical for any enterprise.

UNMATCHED PERFORMANCE

Using the Integrated Deep Packet Inspection (DPI) engine, along with the Extreme NSight[™] Platform^{*}, the AP 8533 tirelessly optimizes the network to extract every bit from the airwaves. From RF errors to key performance indicators, the AP 8533 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.

* sold separately



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UNRIVALED SCALABILITY FROM 1 TO CLOUD

With a modern, WiNG 5 distributed operating system, the AP 8533 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 8533. The AP 8533 has integrated three powerful sensors that optimize security, customer engagement, and network performance.

Specifications

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.

PRODUCT FEATURES								
802.11AC CAPABILITIES								
Quad radios (3 Wi-Fi radios + one Bluetooth* radio)	Advanced forward error correction coding: STBC, LDPC							
Band-unlocked Network Sensor for WIPS and Location Service	802.11ac transmit beamforming							
4x4 MU-MIMO with 4 Spatial Streams	Maximal Ratio Combining (MRC)							
Auto-Selecting MU-MIMO supports 1 and 2 stream wireless clients	NitroQAM provides up to 800 Mbps on 2.4GHz radio and up to 2166 Mbps							
20, 40, and 80 MHz Channels. 160MHz and 80Mhz + 80MHz in a future	on SGHZ radio							
Backet Aggregation (AMSDUL AMRDUL) and RIES	to 16 BSSIDs per radio							
MIMO Power Save (Static and Dynamic)								
	9.25" v 9.25" v 1.0"							
Dimensions	210mm x 210mm x 24mm							
Weight	3.0lbs, 1.27kg							
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							
	AP-8533-68SB30: internal antenna							
Antenna Connectors	AP-8533-68SB3E: internal antenna							
	AP-8533-68SB40; five RP SMA connectors; one RP-SMA dedicated for BT/BLE radio							
Console	RJ45							
USER ENVIRONMENT								
Operating Temperature	32° F to 140° F/0° C to 50° C							
Storage Temperature	40° F to 158° F/-40° C to 70° C							
Operating Humidity	95% RH non-condensing							
Electrostatic Discharge	Internal AP-8533-68SB30/3E: ESD to ±12KV air and ±8KV contact							
ANTENNA INFORMATION								
	Radio 1 (2.4GHz) : 5.2dBi							
Internal Antenna	Radio 2 (5.2GHz): 6.8 dBi							
	Radio 3 (2.4GHz/5.2GHz): 4.9/5.9 dBi							
	Radio 4 (2.4GHz): Integrated antenna with 7.7dBi							
	Radio 1, 2 : up to 10dBi							
External Antenna	Radio 3 (2.4GHz/5.2GHz) integrated antenna: 4.9/5.9 dBi							
	Radio 4 (2.4GHz): dual-mode antenna option. Integrated antenna with 7.7dBi or optional external antenna up to 11dBi.							
DC POWER SPECIFICATIONS								
Operating Power	Max Power Consumption: 24W							
	Typical Power Consumption: 12W							



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PRODUCT FEATURES								
MAXIMUM RADIATED TRANSMIT POWER (RMS)								
	Radio 1, 2.4GHz band: 32.2dBm (1670 mW)							
	Radio 2, 5.2GHz band: 32.8dBm (1915 mW)							
Internal Antonna	Radio 3, 2.4GHz/5.2GHz dual-band sensor:							
	- 2.4GHz band: 25.9 dBm (389 mW)							
	- 5.2GHz band: 22.9 dBm (195 mW)							
	Radio 4: 13.7 dBm (23.4mW) with integrated antenna							
	Radio 1, 2.4GHz band: 34dBm (2524 mW)							
	Radio 2, 5.2GHz band: 33dBm (2005 mW)							
Futernal Antonna	Radio 3, 2.4GHz/5.2GHz dual-band sensor:							
External Antenna	- 2.4GHz band: 25.9 dBm (389 mW)							
	- 5.2GHz band: 22.9 dBm (195 mW)							
	Radio 4: 13.7 dBm (23.4mW) with integrated antenna or up to 17 dBm (50 mW) with 11dBi external antenna							
ACCESSORIES								
	PWR-BGA48V45W0WW							
Power	AP-PSBIAS-2P3-ATR							
	AP-PS85-1P1-WW - Power Splitter							
	KT-135628-01							
Mounting	BRKT-000147A-01							
RADIO SPECIFICATIONS								
Wireless Medium	DSSS, OFDM, MIMO, MU-MIMO							
	IEEE 802.11a/b/g/n/ac, 802.11d, and 802.11i WPA2, WMM, WMM-UAPSD, L2TPv3							
	802.11b/g: 1-54 Mbps							
Network Standards	802.11a: 6-54 Mbps							
	802.11n: MCS 0-31 up to 600 Mbps							
	802.11ac: MCS 0-9 up to 1.733 Gbps; In Nitro mode, radio 1 and 2 data rates can go up to 1000Mbps and 2166Mbps, respectively.							
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							
	Radio 1: 2.4GHz: 4x4 with 4SS							
Antonna Configuration	Radio 2: 5GHz: 4x4 with 4SS							
Antenna Configuration	Radio 3: Dual-Band Sensor: 1x3 with 3SS							
	Radio 4: Bluetooth radio with selectable single integrated antenna or external antenna							
Conducted Radio Power	Up to 21dBm, 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 and secure guest access (hotspot) with captive portal, IPSec, and RADIUS Server							
QoS	WMM, WMM-UAPSD, 802.1p, Diffserv, and TOS. Role-based QoS with rule-based packet marking.							
CERTIFICATES								
Wi-Fi Alliance* (WFA) certified 802.11 a/b/g/n/ac, Passpoint 2.0								
REGULATORY								
Product Safety Certifications	UL / cUL 60950-1, IEC / EN60950-1, UL2043, RoHS							
Radio Approvals	FCC (USA), EU, TELEC							
Approvals and Certifications	UL / cUL 60950-1, IEC / EN60950-1, UL2043, RoHS. FCC (USA), EU, TELEC, Medical EMC standard: EN/IEC 60601-1-2							



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PRODUCT FEATURES						
PRODUCT SKU AND DESCRIPTION						
AP-8533-68SB30-US/WR/EU	802.11ac Wave 2, Tri-Radio, dedicated sensor, BLE, internal antenna, 2xGE-XX					
AP-8533-68SB40-US/WR/EU	802.11ac Wave 2, Tri-Radio, dedicated sensor, BLE, internal antenna, 2xGE-XX					
AP-8533-68SB3E-US/WR/EU**	802.11ac Wave 2, Tri-Radio, dedicated sensor, BLE, internal antenna, 1xGE, 1x2.5GE-XX					
* WiNG 5.8.5 or later ** Future Release						

Rx Sensitivity Table

					AP-8533- 685B30		AP-8533- 685B30	
MODE	RATE/MCS	SPATIAL STREAM	BW	MAX TX POWER (DBM)	AVG SENS ANT	MAX TX POWER (DBM)	AVG SENS ANT	
2G RADIO								
DSSS	1	-	20	21	-99	20	-98	
DSSS	11	-	20	21	-99	20	-98	
OFDM	54	-	20	17	-82	16	-81	
802.11n	MCSO	455	20	20	-71	19	-95	
802.11n	MCSO	4SS	40	20	-68	19	-92	
802.11n	MCS31	4SS	20	16	-71	15	-70	
802.11n	MCS31	455	40	16	-68	15	-67	
5G RADIO								
OFDM	6	-	20	20	-99	17	-96	
OFDM	54	-	20	18	-86	15	-83	
802.11ac	MCS9	4SS	20	20	-70	17	-67	
802.11ac	MCS9	4SS	40	13	-67	10	-64	
802.11ac	MCS9	4SS	80	13	-64	10	-61	
SENSOR RADIO - 2G MODE								
DSSS	1	-	20	20	-99	20	-98	
OFDM	54	-	20	17	-81	15	-80	
802.11n	MCSO	355	20	20	-96	20	-95	
802.11n	MCSO	355	40	20	-93	20	-92	
802.11n	MCS23	355	20	16	-69	13	-68	
802.11n	MCS23	355	40	13	-66	13	-65	
SENSOR RADIO - 5G MODE								
OFDM	6	-	20	17	-99	20	-96	
OFDM	54	-	20	15	-86	17	-83	
802.11ac	MCS9	355	20	12	-67	13	-64	
802.11ac	MCS9	355	40	12	-64	13	-61	
802.11ac	MCS9	355	80	12	-61	13	-58	

WiFi 🚯 Bluetooth

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