ExtremeWireless[™] WiNG 7522 802.11ac Access Point

Upgrade to 802.11ac Wi-Fi Speed and Throughput - All at a Low Cost

INNOVATIVE FEATURES

DUAL-RADIO 802.11AC/802.11N

Provides an easy upgrade path to fifth-generation Wi-Fi for unmatched performance and capacity, with continuing support for all existing Wi-Fi client devices (2.4 GHz/5 GHz)

2X2 MIMO WITH 256 QAM MODULATION

Support for 256 QAM modulation on both the 2.4 GHz and 5 GHz radios boosts throughput; works in conjunction with beamforming to boost range

THE AESTHETICS FOR EVERY INCH OF YOUR ENVIRONMENT

Choose the internal antenna option for a sleek look in public-facing areas where aesthetics are important; choose external antennas when you need the flexibility to cover challenging areas

RADIO SHARE AND OFF-CHANNEL SCAN

Gives you the flexibility to enable a single AP 7522 to perform double duty as an access point and a sensor

STANDARD 802.3AF

Simplifies and reduces total cost of installation using standard Power-over-Ethernet (PoE)

LOAD BALANCING, PREEMPTIVE ROAMING, AND RATE SCALING

Increases reliability and resilience of the wireless network to support missioncritical applications

GAP-FREE SECURITY

Protects your network 24x7x365 with integrated security features



Product Overview

Your WLAN keeps your business moving, empowering your workers to achieve maximum productivity and providing your customers with the high-performance wireless services they expect inside your walls. Yet your wireless LAN is constantly pressured by the steady increase in number of users — as well as the bandwidth-heavy and latency-sensitive voice and multimedia applications they use. Upgrading to 802.11ac could solve the problem, but cost has always been an issue — until now.

Introducing the ExtremeWireless WiNG AP 7522 Access Point from Extreme Networks, delivering 802.11ac speeds at half the cost of many of its competitors. Now you can support virtually any of the mobile devices on your network running today's demanding applications, with a design that fits right into any area in your environment. The 802.11n radio ensures backward compatibility with every mobile device in use in your operation today - and 256 QAM modulation boosts the bandwidth of the 802.11n radio to 802.11ac levels. Choose internal antennas for a sleek understated look that is ideal in customer-facing or carpeted office areas, or external antennas that allow you to choose the antennas you need to achieve maximum range and performance in demanding industrial areas. If you need sensor capability, the AP 7522 gives you the flexibility to meet different business needs — you can deploy a single AP 7522 as both a sensor and an access point for maximum cost-efficiency, or as a dedicated sensor for the most robust sensing functionality. And with our high-powered radios, you'll need fewer access points. The result? A new level of capacity and performance for your wireless LAN - at a new low cost.

THE BANDWIDTH AND APPLICATION PERFORMANCE YOU NEED TO SUPPORT ALL OF YOUR USERS

802.11ac technology builds on the advances of 802.11n — the 802.11ac radio delivers more bandwidth and faster speeds through new technology enhancements such as Multiple-Input Multiple-Output (MIMO). 256 QAM modulation gives the 2X2 MIMO 802.11ac radio an additional performance boost, and increases the bandwidth of



INNOVATIVE FEATURES (CONT.)

UNLEASH OPTIMAL

The Extreme Wireless WiNG 5 WLAN operating system offers a distributed architecture that extends QoS, security, and mobility services to the APs for better direct routing and network resilience. That means no bottleneck at the wireless controller, no latency issues for voice applications, and no jitter in your streaming video. And with our broad selection of access points and flexible network configurations, you get the network you need with less hardware to buy. Let us show you the less complicated, less expensive way to more capacity and more agility. And more satisfied users.

WING FEATURE HIGHLIGHTS

- 802.11r Fast Roaming: Supports fast roaming between access points for mobile clients.
- Roaming Assistance: Enables a sticky-free client WLAN network and improves network performance.
- SMART RF: Allows the WLAN to automatically and intelligently adapt to changes in the RF environment to protect performance and eliminate unforeseen gaps in coverage. Senses potential interference from Wi-Fi and non Wi-Fi sources (such as faulty antennas and neighboring access point failures) and automatically adjusts channels and power as needed.
- Smart Load Balancing: Distributes clients evenly across access points and bands, improving overall network performance.

the 802.11n radio to 802.11ac speeds. In addition, interference from 2.4 GHz devices is finally eliminated. Since 802.11ac operates only in the 5 GHz band, Bluetooth[®] headsets, microwave ovens, and other devices will no longer impact Wi-Fi network performance. The result? Your WLAN can support an unprecedented number of users and applications—including voice and video—allowing you to confidently deploy Bring Your Own Device (BYOD) initiatives and empower new workgroups with mobility.

EASY MIGRATION TO FIFTH-GENERATION 802.11AC WI-FI

The dual-radio AP 7522 provides the simplest path to next-generation Wi-Fi. The 802.11ac radio readies you to support new 5 GHz mobile devices, while the 802.11n radio ensures support for all existing mobile devices — including 2.4 GHz clients. The radios work together to allow you to migrate to 802.11ac at your own pace — and without the high cost of "rip and replace."

MORE ROBUST WIRELESS CONNECTIONS

Your users will experience a wireless connection that is more robust than ever before, thanks to improved beamforming. Beamforming creates the most efficient path for data transmission between an access point and a mobile device. Until now, the transmitting beamformer worked alone to define this path. Now, the receiver also assists, a process known as sounding. The result is a stronger connection that enables faster data transmission. Application throughput and performance is improved, along with mobile device battery power.

GAP-FREE SECURITY

The AP 7522 secures all your wireless transmissions, ensuring compliance with the government or industry regulations your business may be subject to, such as PCI in retail and HIPAA in healthcare. Your network is protected every second of every day with comprehensive integrated security features that include layer 2-7 stateful packet filtering firewall, AAA RADIUS services, a VPN gateway, and location-based access control.

FLEXIBLE WIPS SENSOR SUPPORT

You choose how you want to implement sensing to support AirDefense Network Assurance features. While you can always choose to deploy an AP 7522 as a dedicated sensor, Radio Share and Off-Channel Scan features work hand-in-hand to allow either or both radios to carry client data and act as a sensor, providing dual-band sensing without adding cost.

VOICE, LOCATIONING, AND GUEST ACCESS

Support for Voice-over-wireless LAN (VoWLAN) quality of service (QoS) ensures toll quality, even with many simultaneous calls on a single access point. In addition, you can leverage locationing services to locate and track people and assets, as well as control network and application access. And since you can ensure that users are only able to access authorized networks, sites, and applications, it's easy to provide hotspot and guest access.

THE EXTREME NETWORKS ADVANTAGE: A TURBOBOOST FOR PERFORMANCE AND SUPERIOR SCALABILITY

Since the AP 7522 802.11ac Access Point is part of our ExtremeWireless WiNG 5 family of WLAN infrastructure, it is "network-aware," able to work in concert with all other ExtremeWireless WiNG 5 controllers and access points to define the route that will enable the fastest and most robust path for every transmission. And since the AP 7522 can be adopted by our controllers for easy centralized management,



your network is easy to scale. No matter how many access points and controllers you need, or where in the world they are located, you can deploy, monitor, troubleshoot, and manage them all from a single location. No matter how many users you need to support today or tomorrow, you get the peace of mind that comes from knowing your network is always ready and waiting.

SUPPORT SERVICES BRING OUR EXPERTISE RIGHT TO YOUR DOOR

Reduce risk, lower your capital investment, and reduce operational costs with from-the-manufacturer support services. Our family of services can help you get and keep your WLAN up and running at peak performance by providing the assistance you need at every phase of the network lifecycle — from planning and implementation to post-deployment everyday support.

THE AP 7522 — THE POWER OF 802.11AC WIRELESS SPEED, AT A NEW LOW COST.

For more information, visit <u>www.extremenetworks.com/wlan</u> or access our global contact directory at <u>www.extremenetworks.</u> <u>com/contact</u>.

Specifications

PRODUC	CT FEATURES			
802.11AC CAPABILITIES				
Dual-band radios; supports 256-QAM 2X2 MIMO with 2 Spatial Streams	• 802.11 DFS			
• 20, 40, and 80 MHz Channels	MIMO Power Save (Static and Dynamic)			
1.267 Gbps data rates on dual concurrent radio operations	Advanced forward error correction coding: STBC, LDPC			
Packet Aggregation (AMSDU, AMPDU)	802.11ac transmit beamforming			
Reduced Interface Spacing	Maximal Ratio Combining (MRC)			
PHYSICAL CHARACTERISTICS				
Dimensions	7.1 in. L x 6.5 in. W x 1.6 in. H, 180 mm L x 165 mm W x 41 mm H			
Weight	1.8 lbs/0.82 kg			
Housing	Plenum-rated housing (UL2043)			
Available Mounting	No additional hardware required to mount			
Configurations	Above drop ceiling, under ceiling or on wall			
LEDs Activity Indication	2 top-mounted LEDs; activity indication			
LAN Ethernet	1x IEEE 802.3 Gigabit Ethernet auto-sensing			
Antenna	4dBi - 2.4 GHz band; 6 dBi - 5GHz band			
Antenna Connectors	Two RP SMAs			
Antenna Connectors	(External only – AP-7522-67040-xx)			
Console Port	RJ45			
USER ENVIRONMENT				
Operating Temperature	Internal antennas: 32° F to 104° F/ 0° C to 40° C			
	External antennas: -4° F to 104° F/ -20° C to 40° C			
Storage Temperature	-40°F to 158°F/-40°C to 70°C			
Operating Humidity	85% RH non-condensing			
Electrostatic Discharge	Internal AP-7522-67030-xx: 15kV air, 8kV contact			
	External AP-7522-67040-xx: 12kV air, 6kV contact			
POWER SPECIFICATIONS				
Operating Voltage	48V			
Operating Current	280mA at 48V			
Integrated PoE Support	802.3af			
NETWORKING SPECIFICATIONS				
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)			



PRODUCT FEATURES						
Quality of Service (QoS)	WMM, WMM-UAPSD, 802.1p, Diffserv, and TOS					
RADIO SPECIFICATIONS						
Wireless Medium	Direct Sequence Spread Spectrum (DSSS), Orthogonal Frequency Division Multiplexing (OFDM), and Spatial Multiplexing (MIMO)					
Network Standards	IEEE 802.11a/b/g/n/ac, 802.11d and 802.11i WPA2, WMM, and WMM-UAPSD					
Data Rates Supported	802.11b/g: 1, 2, 5.5, 11, 6, 9, 12, 18, 24, 36, 48, and 54Mbps, 802.11a: 6, 9, 12, 18, 24, 36, 48, and 54Mbps, 802.11n: MCS 0-23 up to 300Mbps; Turbo mode (256QAM) on 2.4G band: up to 400Mbps, 802.11ac: MCS 0-9 up to 866.7Mbps					
	2.4 GHz band: channel 1 through channel 13					
Operating Channels	5.2 GHz band: channel 36 through channel 165					
	Channel availability depends on local regulatory restrictions					
Antenna Configuration	2x2 MIMO (transmit/receive on both antennas)					
Transmit Power Adjustment	1dB increment					
Operating Frequencies	2412 to 2472 MHz, 5180 to 5825 MHz					
CERTIFICATIONS						
Wi-Fi Al	lliance (WFA) certified 802.11a/b/g/n/ac					
REGULATORY						
Product Safety Certifications	UL / cUL 60950-1, IEC / EN60950-1, UL2043, RoHS					
Radio Approvals	FCC (USA), EU, TELEC					
MAXIMUM CONDUCTED TRANSMIT POWER - ONE ANTENNA T	IX POWER					
	2.4 GHz Band : 20 dBm					
Internal Antennas (AP-7522-67030-xx)	5 GHz Band : 20 dBm					
	2.4 GHz Band : 19 dBm					
External Antennas (AP-7522-67040-xx)	5 GHz Band : 18 dBm					
MAXIMUM CONDUCTED TRANSMIT POWER - TWO ANTENNAS	S TX POWER					
	2.4 GHz Band : 23 dBm					
Internal Antennas (AP-7522-67030-xx)	5 GHz Band : 23 dBm					
External Antennas (AP-7522-67040-xx)	2.4 GHz Band : 22 dBm					
	5 GHz Band - 21 dBm					



5 GHz Band : 21 dBm

AP 7522 Sensitivity Table

802.11B (CCK)	5 GHZ: 802.11N (HT20)	2.4 GHZ: 802.11AC						
-98 @ 1 Mbps	-95 @ MCS 0	MCS Index	Spatial Streams	VHT20	VHT40			
-95 @ 2 Mbps	-92 @ MCS 1	0	1	-95	-93			
-92 @ 5.5 Mbps	-90 @ MCS 2	8	1	-70	-68			
-91 @ 11 Mbps	-89 @ MCS 3	0	2	-93	-90			
802.11g (non HT20)	-86 @ MCS 4	8	2	-68	-66			
-97 @ 6 Mbps	-79 @ MCS 5							
-96 @ 9 Mbps	-77 @ MCS 6	5 GHZ: 802.11AC						
-95 @ 12 Mbps	-76 @ MCS 7	MCS Index	Spatial Streams	VHT20	VHT40	VHT80		
-93 @ 18 Mbps	-93 @ MCS 8	0	1	-95	-93	-90		
-89 @ 24 Mbps	-90 @ MCS 9	8	1	-70	-68	-64		
-86 @ 36 Mbps	-87 @ MCS 10	0	2	-93	-90	-85		
-82 @ 48 Mbps	-84 @ MCS 11	8	2	-68	-66	-61		
-80 @ 54 Mbps	-81 @ MCS 12							
802.11a (non HT20)	-76 @ MCS 13							
-95 @ 6 Mbps	-74 @ MCS 14							
-95 @ 9 Mbps	-73 @ MCS 15							
-94 @ 12 Mbps	5 GHz: 802.11n (HT40)							
-92 @ 18 Mbps	-92 @ MCS 0							
-88 @ 24 Mbps	-89 @ MCS 1							
-85 @ 36 Mbps	-87 @ MCS 2							
-81@ 48 Mbps	-85 @ MCS 3							
-79 @ 54 Mbps	-84 @ MCS 4							
4 GHz: 802.11n (HT20)	-76 @ MCS 5							
-95 @ MCS 0	-75 @ MCS 6							
-92 @ MCS 1	-74 @ MCS 7							
-90 @ MCS 2	-90 @ MCS 8							
-88 @ MCS 3	-87 @ MCS 9							
-86 @ MCS 4	-84 @ MCS 10							
-79 @ MCS 5	-81 @ MCS 11							
-77 @ MCS 6	-77 @ MCS 12							
-76 @ MCS 7	-73 @ MCS 13							
-93 @ MCS 8	-72 @ MCS 14							
-90 @ MCS 9	-65 @ MCS 15							
-87 @ MCS 10								
-84 @ MCS 11								
-81 @ MCS 12								
-76 @ MCS 13								
-74 @ MCS 14								
-73 @ MCS 15								

Wi Fi

The Wi-Fi CERTIFIED™ Logo is a certification mark of Wi-Fi Alliance®.



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