

PRODUCT SPEC SHEET

AP 8122
802.11N ACCESS POINT



AP 8122 802.11N ACCESS POINT

WIRELESS NETWORKS FOR CUSTOMER-FACING SPACES.

SLEEK DESIGN DELIVERS NEXT GENERATION HIGH PERFORMANCE WI-FI IN YOUR MOST DESIGN-CONSCIOUS ENVIRONMENTS

Retail stores, hotels, hospitals and schools all have one thing in common: they all need to provide wireless connections not only for their own workers, but also to the customers, patients and students they serve ' and performance expectations are at an all time high.

Now, with Symbol's AP 8122 access point, you can deliver dependable speeds to virtually any number of mobile devices running the most demanding applications. With its sleek housing, understated design and internal antennas, the AP 8122 blends right into your indoor environment ' including the most fashionable high-end retail store. The next generation 802.11n radios empowers your network with reliable Wi-Fi for every mobile device in use in your operation today. 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 ' all at a lower cost.

OPTIMIZING THE USER EXPERIENCE

WiFi users with tablets, smartphones and mobile computers logged onto your corporate and guest access networks can get fast speeds and highly robust connections for the best experience possible. The AP 8122 is a 3-spatial stream access point with two radios, delivering data rates of up to 450 Mbps per radio over WING 5 architecture. Whether you're using voice, data, or bandwidth-intensive applications like HD video, you can be confident your network can handle the traffic and provide the optimum user experience.

STRENGTHENING THE CONNECTION

Advanced 802.11n features such as Space Time Block Coding (STBC) and beamforming provide improved connectivity. STBC uses redundant data streams to increase successful transmissions; it also helps improve signal robustness even with the single antennas of smartphones, tablets and other size-constrained client devices. Beamforming attempts to map the characteristics of the RF channel and compensate for interference by modulating the signals such that the intended receiver experiences an improved signal-to-noise ratio compared to a standard transmission.

VOICE, LOCATIONING AND GUEST ACCESS

The AP 8122 supports voice over wireless LAN (VoWLAN) quality of service (QoS), ensuring toll-quality even with many simultaneous calls on a single access point. Leveraging locationing services over 802.11, the AP 8122 gives you the ability to locate and track people or assets, and even to control access to the network or applications. In addition, it's easy to provide hotspot and guest access and assure that users can only access authorized networks, sites or applications.

ENHANCING SECURITY AND COMPLIANCE



ZEBRA

INNOVATIVE FEATURES OF THE MODULAR AP 8122

3-spatial stream 3X3 MIMO Access Point

Delivers maximum throughput to support virtually any enterprise application, including voice and HD video

802.11n operation with standard 802.3af

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

Load balancing, pre-emptive roaming and rate scaling

Increases reliability and resilience of the wireless network to support mission critical applications

Band-unlocked dual band design

Lets you increase security without increasing costs. Band-unlocked radios enable 24x7 dual band Wireless IPS sensing on both 2.4 GHz and 5 GHz with concurrent 802.11a/b/g/n client access and mesh



UNLEASH OPTIMAL

Zebra's WiNG 5 WLAN solutions offer all the benefits of 802.11n ' and then some. Our distributed architecture extends QoS, security and mobility services to the APs so you get better direct routing and network resilience. That means no bottleneck at the wireless controller, no

The AP 8122 provides the gap-free security you need to secure all your wireless transmissions, and to enable you to be in compliance with government and industry regulations such as HIPAA in healthcare and PCI in retail. Our comprehensive integrated network security features include: layer 2-7 stateful packet filtering firewall, AAA RADIUS services, wireless intrusion protection system (IPS), VPN gateway and location-based access control. You can also add role-based access control and AirDefense Wireless IPS and Rogue detection for premium-level security vigilance.

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.

THIRD GENERATION PERFORMANCE AND SCALABILITY

Our integrated WiNG 5 WLAN operating system offers unmatched WLAN performance, scalability and flexibility. In this third generation WLAN architecture, all access points and controllers are network aware, able to collectively determine the most efficient route for wireless traffic, as well as enforce QoS and security policies. The result is a new level of wireless service quality and reliability for all your users.

LEVERAGE OUR EXPERTISE

A respected leader in enterprise mobility, Zebra provides service solutions that allow you to benefit from the experience we've gained from working around the globe with many of the world's leading companies. We provide our expertise through services solutions that meet the peak performance needs of your business. Our comprehensive portfolio of services provides assistance at every phase of network lifecycle ' from planning and implementation to post-deployment everyday support. Our services help you reduce risk, lower your capital investment, reduce your operational costs, improve service delivery and tailor your network to meet your specific needs.

For more information about the AP 8122, please visit www.zebra.com/wlan.

TECHNICAL SPECIFICATIONS

802.11N CAPABILITIES		NETWORKING SPECIFICATIONS	
• 3X3 MIMO with 3 Spatial Streams • 20 MHz and 40 MHz Channels • 450 Mbps Data Rates per Radio • Packet Aggregation (AMSDU, AMPDU) • Reduced Interface Spacing • 802.11 DFS • MIMO Power Save (Static and Dynamic) • Advanced forward error correction coding: STBC, LDPC		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, MU-assisted, on-board IDS and secure guest access (Hotspot)
PHYSICAL CHARACTERISTICS		Quality of Service (QoS)	WMM, WMM-UAPSD, 802.1p, Diffserv and TOS
Dimensions	9.0 in. L x 6.0 in. W x 1.77 in. H 230 mm L x 153 mm W x 45 mm H	RADIO SPECIFICATIONS	
Weight	3.41 lbs/1.55 kg		
Housing	Metal and plastic	Wireless medium	Direct Sequence Spread Spectrum (DSSS), Orthogonal Frequency Division Multiplexing (OFDM) and Spatial multiplexing (MIMO)
Available mounting	No additional hardware required to mount (bracket included)	Network standards	IEEE 802.11a/b/g/n, 802.11d and 802.11i WPA2, WMM and WMM-UAPSD
Configurations	Under ceiling or on wall	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 450Mbps
LEDs activity indication	2 top mounted LEDs	Operating channels	2.4GHz band: channel 1 through
Uplink	1 port (GE1) Auto-sensing 10/100/1000Base-T Ethernet; 802.1at on GE1 LAN port		
Console port	RJ45 Console Port		

USER ENVIRONMENT

Operating Temp.	32° F to 104° F/0° C to 40° C
Storage Temp.	-40° F to 185° F/-40° C to 85° C
Operating humidity	5 to 95% RH non-condensing

Electrostatic discharge	15kV air, 8kV contact
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POWER SPECIFICATIONS

Operating voltage	48V
Operating current	310mA or 520mA
Integrated PoE support	802.3af and 802.3at
Aux power supply	30W (625mA@48V) DC auxiliary power supply

Maximum available transmit power per chain (conducted)	2.4GHz: 23dBm 5.2GHz: 20dBm
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Maximum available transmit power per AP (composite, 0dBi antenna)	2.4GHz: 27.7dBm 5.2GHz: 24.7dBm
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Antenna configuration	3x3 MIMO (transmit/receive on all three antennas) and green mode (dynamical antenna selection).
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Transmit power adjustment	1dB increment from 0dBm to max.
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Operating frequencies	2412 to 2472Mhz, 5180 to 5825 MHz
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REGULATORY

Product safety certifications	UL / cUL 60950-1, IEC / EN60950-1, RoHS
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Radio approvals	FCC (USA), Industry Canada, CE (Europe), China, Australia
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**ZEBRA WLAN
UNLEASH OPTIMAL**



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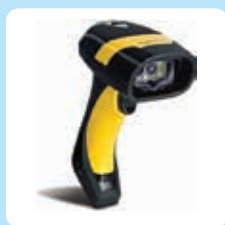
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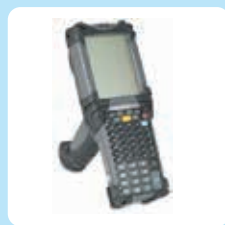
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(labels, ribbons, PVC cards)