

# WOA5200-10

802.11n dual-band outdoor access point

Datasheet



## High performance, integrated outdoor wireless access point

The WOA5200-10 is a high performance dual-band 802.11n outdoor wireless access point with 2x2 MIMO support designed to meet rapidly rising demand for bandwidth by mobile users, while offering network operators a fully integrated weatherproof unit that is easily deployed outdoors. Capable of supporting up to 35 simultaneous multimedia users and up to 600 Mbps aggregate throughput, the WOA5200-10 delivers outstanding performance in dense urban outdoor settings, such as transit centers, retail malls, campuses, and stadiums, as well as industrial settings, such as mining and oil and gas applications.

The WOA5200-10 is designed with an IP67-rated enclosure, environmentally sealed antenna connectors, local or PoE power options, and an internal heating module for easy deployment in harsh environments. The unit can be deployed as a stand-alone access point or managed via a centralized controller or multi-service gateway that handles all user authentication, routing, radio resource management, and network management.

## Features

### High performance Wi-Fi access point

- Compliant with IEEE 802.11a/b/g/n standards
- High performance dual-band (2.4 GHz and 5 GHz) solution
- 2x2 MIMO and OFDM
- Aggregate 600 Mbps throughput (300Mbps in the 2.4 GHz band; 300GHz in 5 GHz band)
- Supports up to 256 connections, with up to 35 users at a sustained bandwidth of 1 Mbps

### Robust security

- 802.1x, MAC-based, Web-based, and transparent authentication mechanisms
- Allows use of SMS, Facebook® or WeChat® to complete authentication
- Continuously monitors for rogue access points and network attacks
- Support for up to 32 SSIDs
- User parameters and security policies can be assigned for each SSID

### Smart Link connectivity management

- Actively monitors link state and connectivity to the controller or gateway
- Intelligently responds to connectivity interruptions by maintaining user sessions and establishing new sessions without interruption

### Flexible data forwarding network architecture

- Support for split bearer and control channels provides enhanced flexibility for small or large network design
- Configurable for central data forwarding, routing all data traffic through the central gateway to provide complete control of packet flows
- Local forwarding for network access maintains unified user management and security policy administration, while offering high bandwidth and low latency for remote sites

### Simple, centralized optimization and management

- Supports Telnet and SSH management for local or remote access
- Zero-touch join and configuration
- Load balancing of client and network traffic by voice, video, or data service type to enhance user QoE
- Handoffs to and from the cellular network occur seamlessly and without service degradation

### Rugged, easy to deploy in outdoor applications

- Rugged IP67-rated outdoor design, moisture-proof and dust-proof to withstand challenging environments
- Power-over-Ethernet support, and environmentally sealed connectors for external antennas
- Pole or bracket mounting
- Heating module prevents buildup of ice and snow in cold climates

## WOA5200-10 802.11n dual-band outdoor access point

### Specifications

Physical Specifications	
Power input	802.3at power over Ethernet (PoE)
Overall power consumption	16W
Dimensions (W x D x H)	10.24" x 8.27" x 3.15" (260 mm x 210 mm x 80 mm)
Weight	6.16 lbs (2.80 kg)
Ethernet ports	21 x 10/100/1000Base-T
Console port	1 Micro USB
Reset	1 Reset button
Indicators	1 Power 1 WLAN 1 LAN
Operating temperature	-40°F to +131°F (-40°C to +55°C)
Storage temperature	-40°F to 158°F (-40°C to +70°C)
Relative humidity	0–100% noncondensing
Ingress protection	IP67

  

WLAN Specifications	
Antenna	4 N-type connectors for external antennas (antennas not included)
Operating frequency	802.11a/n 5.15–5.850 GHz 802.11b/g/n: 2.4–2.4835 GHz
Spatial streams	2x2 MIMO
Maximum transmit power	27 dBm (24 dBm per chain)
Modulation technique	DSSS (11b): DBPSK @ 1 Mbps, DQPSK @ 2 Mbps CCK @ 5.5/11 Mbps OFDM (11a/g): BPSK @ 6/9 Mbps QPSK @ 12/18 Mbps 16-QAM @ 24 Mbps 64-QAM @ 48/54 Mbps MIMO-OFDM (11n): MCS 0-23
Data rates	IEEE 802.11ac: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11b: 11/5.5/2/1 Mbps IEEE 802.11g: 54/48/36/24/18/12/9/6 Mbps IEEE 802.11n: 20 MHz: 6.5–216.7 Mbps 40 MHz: 13.5–450 Mbps
Maximum SSIDs	32
Maximum concurrent users	256

  

802.11n	Maximal ratio combining (MRC) Maximum likelihood detection (MLD) Automatic channel scanning 20 MHz/40 MHz channel bandwidth A-MPDU, A-MSDU Dynamic frequency scaling Unscheduled automatic power save delivery (UAPSD)
Wi-Fi security and authentication	WEP 64/128 WPA/WPA2-PSK-TKIP WPA/WPA2-PSK-CCMP WPA/WPA2-802.1X-TKIP WPA/WPA2-802.1X-CCMP WAPI-PSK/CA MAC, Portal, Transparent Authentication, Dot1x Authentication (EAP-TTLS, EAP-PEAP, EAP-SIM/AKA, EAP-FAST )
QoS	Supports 802.1p, IP DSCP, 802.11e Supports rate-limiting based on STA/SSID/AP Supports RADIUS bandwidth property delivery
Management	Local management: console Remote management: Telnet, SSH, CAPWAP Network management and control: CAPWAP Supports remote upgrades through FTP Supports batch upgrades through multi-service gateway
Software	AmOS 1.0



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