

AeroGuard™ AGN1200 Series

MIMO Access Points

AeroGuard™ MIMO Access Points offer an unprecedented combination of performance, scalability and manageability. Designed for business applications, AeroGuard™ includes the most advanced features available in a wireless LAN solution for security, QoS and management; more features that mean greater flexibility in meeting the application demands of mobile users, and make AGN1200 series APs a superior investment over centralized WLAN switch solutions.



Features and Benefits

Unparalleled Performance

- MIMO range and capacity - based on Airgo True MIMO™ technology with a multiple antenna design that increases data rates and capacity per channel, and enhances reliable range by 2-6x.
- Hardware encryption - includes embedded AES acceleration for line speed encryption compliant with WPA 2.0 AES.

Available in One and Two Radio Models

AeroGuard™ provides unique scalability for WLAN deployments, with one and two radio models that support options for wired Ethernet or all-wireless networks that utilize wireless Mesh backhaul links:

Model	Radios	Bands	Frequency	Maximum Data Rate
AGN1201	One	802.11b/g	2.4GHz	Up to 108Mbps
AGN1202	Two	802.11b/g 802.11a	2.4GHz 5GHz	Up to 108Mbps Up to 108Mbps

All-Wireless Mesh Networks

Dual radio model supports simultaneous AP and wireless Mesh backhaul links to other APs, enabling rapid Mesh network deployment with lower cost of installation.

Security

The highest level of encryption, authentication and network protection available in Enterprise WLAN:

- 802.11i compliant WPA2 with AES
- 802.1x supported by embedded RADIUS
- EAP-PEAP and EAP-TLS support
- Advanced rogue management
- Zone Privacy for client to client blocking

Advanced Quality of Service

Designed to manage voice over Wi-Fi, streaming media and other business applications with extensive feature support or CoS and QoS:

- 802.1p packet classification
- 802.11e priority and scheduling support
- 802.1q VLAN tagging support per user group

Embedded Portal Flexibility

Each AeroGuard™ AP includes complete functionality for domain management that maximizes flexibility and redundancy, eliminating the need for separate wireless switches:

- Management Portal - monitors, updates and aggregates the policies and performance of the wireless network.
- Security Portal - provides backup access control and authentication through integrated or external RADIUS.

Ease of Installation

The highly integrated design allows more automation to simplify deployments, whether for one or multiple APs:

- Automated frequency and channel selection
- Intelligent data path routing and fault tolerance
- Built-in policy management and performance monitoring

Scalable Management

AeroGuard™ can be managed in a range of options:

- Intuitive Web based administration on a per AP basis
- Embedded Management Portal feature for multiple APs
- Multi-site remote management available through SNMS *

* AeroGuard NMS (ANMS) appliance available for SNMP based management

Specifications

Performance

Data Rates (Mbps)	802.11b: 1, 2, 5.5, 11 802.11a and 802.11g: 6, 9, 12, 24, 36, 48, 54 Airgo True MIMO™ modes: 72, 96, and 108 - per 20MHz channel for both 2.4GHz and 5GHz bands.	
Minimum Output Power (dBm)	802.11b	20 at 11Mbps
	802.11g	17 at 54Mbps
	802.11a	15 at 54Mbps
	True MIMO™	15 at 108Mbps
Quality of Service	802.11e support for prioritized and scheduled QoS (EDCA, HCCA) Tagging options - 802.1p (classified), per VLAN, per Station, IP TOS 802.1q and TC-ID priority mapping support	
VLAN and SSIDs	Up to 16 Groups (default + 15 assignable) VLANs assignable to unique SSIDs Individual access and security policies per VLAN	

Security

Authentication	802.1x and embedded RADIUS auto keys EAP-TLS, EAP-TTLS, EAP-PEAP Pre-share key (PSK)	
Encryption	64 / 128bit WEP WPA2 / AES-CCM (802.11i) WPA / TKIP	
Rogue Management	2.4 and 5GHz channel scanning and detection Log and notify unknown AP sources Classify options - rogue, neighbor, known	
Zone Privacy	Blocks client to client discovery within a specified VLAN - for public Hotspots	

Radio Properties

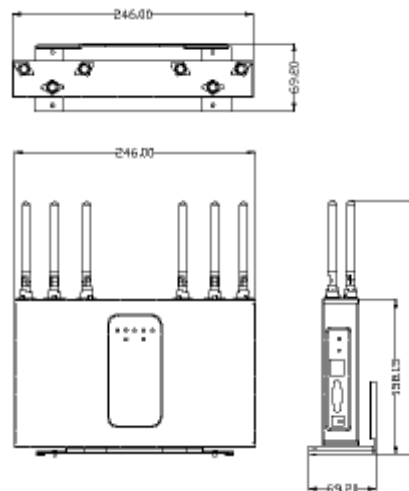
Chipset	Airgo Networks True MIMO™ Multi-mode	
Frequency Range (MHz)	2400-2484; 5150-5250; 5250-5350; 5725-5850	
Modulation	802.11b: DSSS (BPSK, DQSK, CCK) 802.11a, 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM), Airgo True MIMO™	
Wireless Mesh	Supports simultaneous AP and wireless Mesh backhaul links (dual radio model)	

Management

Embedded Portal Functions	Management Portal: enables domain management for up to 20 AeroGuard™ APs; centralizes monitoring, updating and statistics functions. Security Portal: centralizes access authentication functions including RADIUS.	
Remote Management	Integrates with SOHware NMS (SNMS), supports SNMPv2/v3	
Administrative Access	Web browser - HTTPS CLI - SSH (via serial port)	

Hardware

Processor	Motorola Power PC8245, 300 MHz
Memory	32 MB SDRAM, 32 MB Flash
Antennas	Omni-directional - tri-band - articulating
Ports	Ethernet - 10/100Base-T (RJ-45) Console - RS-232 serial (DB-9)
Reset button	Dual pin hole with buzzer - default reset
Power over Ethernet	Supported - 802.3af compliant (48V DC)
Indicators (LED)	Activity (per radio) Ethernet (link/activity) Status (active / rebooting)



Physical / Environmental

Enclosure	Metal case - plenum ready
Dimensions and Weight	9.69 x 5.9 x 1.5 in (24.5 x 15 x 3.5 cm) 3 lbs (1.4kg)
Temperature & Humidity	0 to +60 degrees C; <95% RH non-condensing
Regulatory	FCC Part 15

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