Key Specifications

- Up to 400 Mbps for 2.4 GHz radio
- Up to 867 Mbps on 5 GHz radio
- 802.11 ac Wave 2 support.
- 2x2 MIMO
- Max 120 clients per radio; dependent upon use-cases
- IP67 compliant exterior to withstand outdoor weather conditions
- Four integrated omnidirectional antennas
- 20/40/80 MHz channel width support
- 2x Gigabit Ethernet port
- Full operational capacity with 802.3at PoE+
- Vertical wall or pole mounting support
- WMM compliant
- Integrated Bluetooth Low Energy (BLE)

Key Features

- 100% controller-free
- Ruggedized for any outdoor coverage requirements
- Internal antenna support makes installation fast and error-free
- Zero-touch deployment through automatic cloud activation and configuration
- Self-healing wireless mesh networking
- Cloud-defined operating modes for dedicated access, dedicated security or dual-mode
- Support for up to eight distinct SSIDs per radio integrated firewall, traffic shaping, QoS and BYOD controls per SSID
- Dynamic RF optimization through smart steering, band steering and optimal channel selection

Cost Effective Outdoor Wi-Fi

The Arista O-105 is a ruggedized enteprise-grade 2x2 MIMO 802.11ac outdoor access point with dual concurrent 5 GHz and 2.4 GHz band radios supporting 802.11a/n/ac, 802.11b/g/n, two spatial streams and data rates of up to 867 Mbps and 400 Mbps, respectively and a third 2.4 GHz Bluetooth Low Energy (BLE) radio.

Why Choose the O-105?

The O-105 is ideal for delivering high-performance in harsh or outdoor environments such as schools and universities, outdoor sections of hotel and enterprise campuses, warehouses, manufacturing yards, stadiums and sports arenas, malls, public hotspots and other municipal WiFi deployments.

It can also be used to cost-effectively extend the range of WiFi access in areas where it is not practical to rollout Ethernet cables, and to implement point-to-point or backhaul mesh WiFi links to interconnect buildings or campuses, while simultaneously providing WiFi access to users.

iBeacon Bluetooth Low Energy Support

The Arista O-105 supports the iBeacon Bluetooth Low Energy (BLE) standard. BLE is used for proximity based services on mobile devices via an application ecosystem. O-105 can be configured to advertise a unique identifier through iBeacons at a periodic interval

Arista Cloud Managed WiFi

The O-105 is managed by the Arista Cloud managed platform which enables a complete workflow for wireless access, security and engagement. It leverages a purpose-built cloud architecture to produce enterprise-grade wireless networks for every application required and ensures high reliability through an approach that is automated, scalable, secure and cost effective.

What really matters

The future of WiFi requires intelligent, self-reliant access points that support high-performing, highly reliable networks without the need of antiquated controllers. This approach removes the complexity, instability and high costs associated to enterprise WiFi today.

Arista O-105

Access

The O-105 creates WiFi networks that require less time and resources to deploy and maintain compared to traditional devices, resulting in significant cost savings.

- Arista Access Points take less than two minutes to activate and configure after connecting to the cloud
- Support for up to eight individual SSID's per radio allows for maximum flexibility in network design
- Network controls like NAT, firewall and QoS occur at the access point level, ensuring faster and more reliable networks
- Persistent scanning background scanning of all 802.11 channels increases insight and data to assist in RF optimization and client handling
- Smart steering addresses sticky client issues by automatically encouraging clients to move to a closer access point
- Band steering manages channel occupancy, moving clients to the 5GHz channel for optimal throughput
- Access points continue to broadcast and support wireless networks even if their connection with the cloud is interrupted

Security

The O-105 offers complete visibility and control of the wireless airspace that keeps the integrity of the network in check and actively protects users without manual intervention.

- Every Arista access point is equipped with fully integrated wireless intrusion prevention capabilities
- Runs complete spectrum scans while simultaneously serving wireless clients through background scanning
- Arista's patented Marker Packets™ accurately detect rogue access points on any network with the fewest false positives in the industry
- VLAN monitoring enables a virtual connection to non-WiFi networks for complete network rogue detection and prevention
- Automatic prevention combines over-the-wire and over-the-air techniques to keep unauthorized clients off the network and authorized clients on it

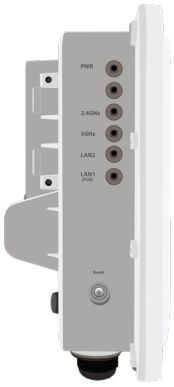
Engagement

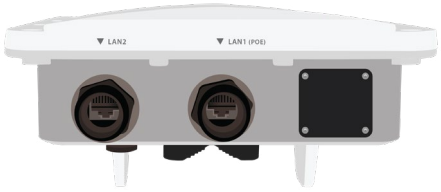
The O-105 collects massive amounts of data and supports immersive guest network experiences that develops and reinforces the relationship between the customer and the brand.

- Persistent scanning of all 802.11 channels results in a comprehensive list of active wireless clients across the enterprise
- Statistics like location, duration, distance from access point and time of day are stored locally for every active wireless client
- Statistics like session duration, total data transfer up and down, data rate, smart device type and top-level domain are stored locally for every active connection
- Real-time notifications can be sent to third party systems to alert to the presence of enrolled devices
- Enables proximity marketing programs that trigger when certain devices are present
- Triggers automatic messaging via MMS, in-browser notifications and more

Physical Specifications

Property	Specification
Physical Dimensions	213.9 mm x 213.9 mm x 67.5 mm
Operating Temperature	-20°C to 65°C (-4°F to 149°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	5% to 95% non-condensing
Max power consumption	19 W (max) / 11 W (min) / 16 W (avg)
Chipset	Qualcomm QCA-IPQ4029+QCA8075
Processor RAM	Qualcomm QCA IPQ4029-1-583MSP with 512MB RAM and 128MB Flash





Port	Description	Connector Type	Speed/Protocol
LAN1/ PoE	Gigabit Ethernet port that enables the device to connect to the wired LAN and communicate with the AristaCloud or Server. This port is also used to power the device using the 802.3at Power over Ethernet Plus (PoE+) standard.	IP67 rated weatherproof RJ-45	10/100/1000 Mbps Gigabit Ethernet 802.3at PoE+
LAN2	Gigabit Ethernet port that can be used for wired extension of an SSID	IP67 rated weatherproof RJ-45	10/100/1000 Mbps Gigabit Ethernet
Reset	Reset to factory default settings	Push button	Hold down an power cycle the device to reset

Wi-Fi Specifications

Frequency, Modulation and Data Rates

IEEE 802.11b/g/n			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	2412-2472 MHz	2412-2462 MHz	2412-2472 MHz
Modulation Type	DSSS, OFDM		
Data Rates	Up to 400 Mbps (MCS 0-23) with automatic rate adaptation		
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna with peak gain up to 5.9dBi		

IEEE 802.11a/n/ac			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	5.15 MHz ~ 5.85 MHz	5.15 ~ 5.85 GHz	5.15~5.72 MHz
Dynamic Frequency Selection	DFS and DFS2		
Modulation Type	OFDM		
Data Rates	Up to 867 Mbps (MCS 0-9) with automatic rate adaptation		
Antenna	Integrated modular high efficiency PIFA omnidirectional antenna with peak gain up to 6.5dBi		

Maximum Power Values	
Maximum Transmit Power	24 dBm
Receive Sensitivity	-93 dBm

Country-Wise Max Transmit Powers (dBm)

Countries	2.4 GHz	5 GHz
Australia	20	23
Canada	30	23
India	20	20
Israel	20	20
Japan	20	20
UAE	20	17
USA	20	23

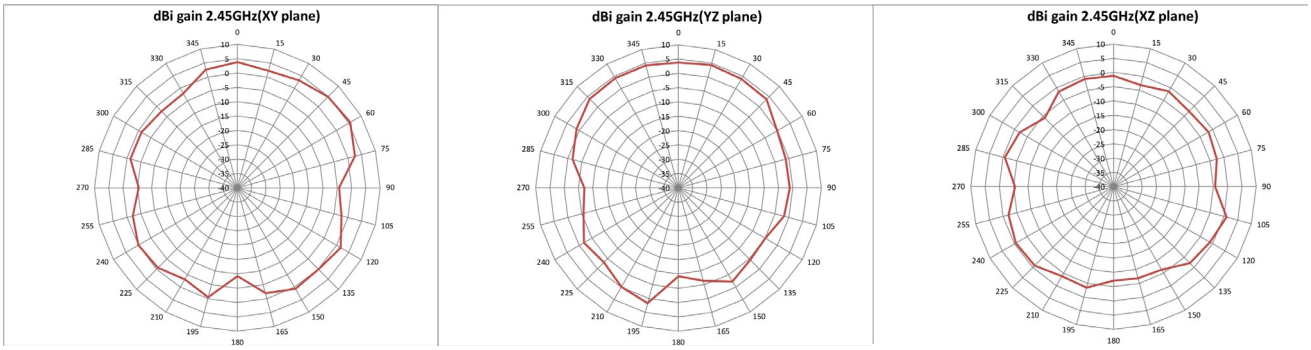
Note:
The actual transmit power will be the lowest of:

- Value specified in the Device Template
- Maximum value allowed in the regulatory domain
- Maximum power supported by the radio

Internal Antenna Radiation Patterns

2.45 GHz

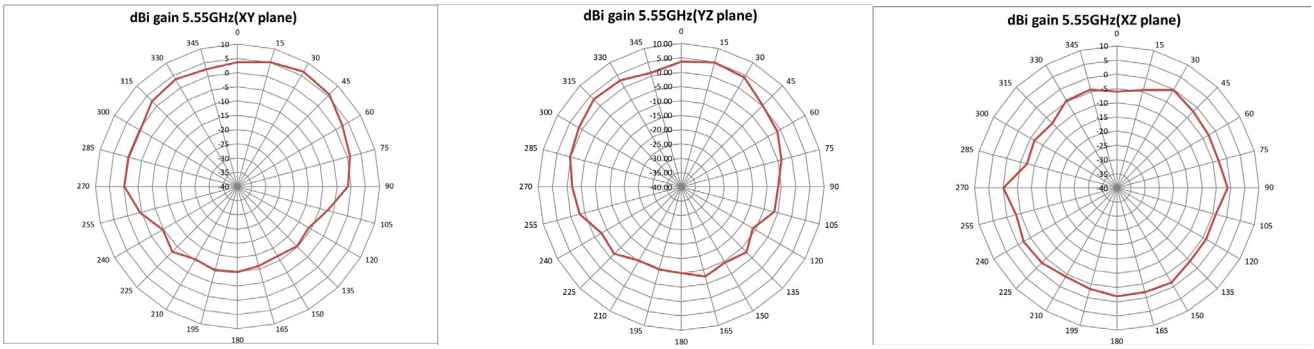
dBi gain



Internal Antenna Radiation Patterns

5.55 GHz

dBi gain



Security

Access Point Mode:

• WPA/WPA2 (802.11i) with AES-CCMP encryption and PSK or 802.1x authentication

• Integrated WIPS background wireless scanning and rogue AP prevention

WIPS Sensor mode:

• Dedicated dual-band WIPS scanning for complete 24/7 protection from wireless threats

Regulatory Specifications

RF and Electromagnetic

Country	Certification
USA	FCC
Canada	IC
Europe	CE EN Countries covered under Europe certification: Austria, Belgium, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Iceland, Luxembourg, Latvia, Lithuania, Malta, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Slovakia, Slovenia, Switzerland, The Czech Republic, UK.

Safety

Country	Certification
USA	UL
Canada	cUL
European Union (EU)	EN, RoHS

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