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# **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 with two spatial streams per radio
- Max 120 clients per radio; dependent upon use-cases
- IP67 compliant exterior to withstand outdoor weather conditions with Industrial temperate operating range
- Four N-Type external connectors to support a variety of external antenna choices
- 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
- 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
- Third party analytics integration for real-time data transfer

#### Cost Effective Outdoor Wi-Fi

The Arista O-105E is a ruggedized enteprise-grade 2x2 MIMO 802.11ac/af 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-105E

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

#### Arista Cloud Managed WiFi

The O-105E 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-105E

O-105E

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#### Access

The O-105E 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 through 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 pushing clients with low speeds to a closer access point
- Band steering manages channel occupancy, pushing 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-105E 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 the industry's only fully integrated wireless intrusion prevention capabilities
- · Runs complete spectrum scans while simultaneously serving wireless clients through background scanning
- Arista's patented Marker Packets<sup>™</sup> are used to accurately detect 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
- · Access points continue to scan for wireless threats and enforce security policy even if their connection with the cloud is interrupted

#### **Engagement**

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

- · Persistent scanning of all 802.11 channels results in a comprehensive list of active wireless clients across the enterprise
- · Choice statistics like location, duration, distance from access point and time of day are stored locally for every active wireless client
- Choice 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 sent to third party systems that 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

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# **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
2.5004	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  V LAN1 JPOR  Reset		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 to factory default settings	Push button	Hold down a power cycle the device to reset



# **Wi-Fi Specifications** Frequency, Modulation, and Data Rates

IEEE 802.11b/g/n			
	Scanning	Transmission	
Frequency Band	All regions	USA & Canada	Europe
		(FCC/IC)	(ETSI)
	2412-2472 MHz	2412-2462 MHz	2412-2472 MHz
Modulation Type	DSSS, OFDM		
Data Rates	Up to 400 Mbps (MCS 0-23) with au	Up to 400 Mbps (MCS 0-23) with automatic rate adaptation	

IEEE 802.11a/n/ac			
Frequency Band	Scanning	Trans	smission
	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		

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

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### Security

Access Point Mode:

- WPA/WPA2 (802.11i) with TKIP or 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

# Headquarters

5453 Great America Parkway Santa Clara, California 95054 408-547-5500

# Support

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