Key Specifications

- Up to 300 Mbps for 2.4 GHz radio
- Up to 867 Mbps for 5 GHz radio
- 802.11ac Wave 2 support
- 2x2 MU-MIMO with two spatial streams per radio
- Integrated omnidirectional antennas
- 20/40/80 MHz channel width support
- 2x Gigabit Ethernet port
- Full operational capacity with 802.3af PoE

Key Features

- 100% controller-free
- Zero-touch deployment through automatic cloud activation and configuration
- 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
- Automated device access logging
- Non-WiFi VLAN monitoring for extended rogue access point detection
- Third party analytics integration for real-time data transfer
- Self-healing wireless mesh networking

Top Performance at the Best Price

The Arista C-100 is an enterprise-grade 2x2 MU-MIMO dual radio 802.11ac access point with dual concurrent 5 GHz and 2.4 GHz band radios supporting 802.11a/n/ac Wave 2, 802.11b/g/n, two spatial streams, and data rates of up to 867 Mbps and 300 Mbps, respectively.

Why Choose the C-100?

The C-100 provides the best value among high-performing, modern access points designed for cost-conscious organizations. Built using the latest 802.11ac Wave 2 chipsets, the C-100 is perfect for medium density environments looking for the high-performance and advanced features of current access points without the high cost. Common deployment scenarios include small and medium schools, distributed remote offices, small meeting rooms, and enterprise campuses.

The C-100 provides access to advanced access point features like role-based firewalls and application visibility without the high cost typically associated with Wave 2 devices. The C-100 is also a perfect fit for organizations in need of future-ready dedicated security sensors.

Arista Cloud Managed WiFi

The C-100 is managed by the Arista cloud and leverages a purpose-built cloud architecture to produce enterprise-grade wireless networks for every application required, ensuring 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 for antiquated controllers. This approach removes the complexity, instability and high costs associated with enterprise WiFi today.

Arista C-100

Access

The C-100 creates WiFi networks that require less time and resources to deploy and maintain compared to traditional devices, resulting in significant cost savings.

- Plug and play provisioning using either Cloud or On-premise deployments - Arista Access Points take less than two minutes to activate and configure after connecting to the cloud
- Support for up to eight individual SSIDs per radio providing maximum flexibility in network design
- Network controls like NAT, Firewall and QoS implemented at the Access Point, ensuring faster and more reliable networks
- Smart steering addresses sticky client issues by automatically pushing clients with low data rates to a better access point
- Band steering manages channel occupancy, pushing clients to the 5 GHz channel for optimal throughput
- Smart load balancing distributes load evenly across neighbouring APs to optimize the use of network resources
- Arista Wi-Fi's distributed data plane architecture continues to serve users and secure the network even if connection with the management plane is interrupted
- Interference avoidance from LTE/3G small/macro cells in commonly used TDD/FDD frequency bands

Security

The C-100 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 with dedicated third radio
- Arista's patented Marker Packets™ 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

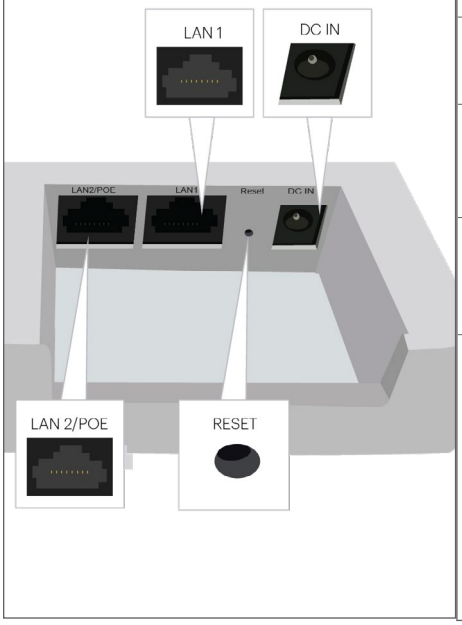
Analytics

The C-100 collects massive amounts of data and supports immersive guest network experiences that develop and reinforce the relationship between them and the brand.

- Reports of customer footfall, demographic, loyalty and other analytics provide insightful and actionable information.
- Supports proximity marketing programs that trigger when certain devices are present, which includes automatic messaging vis MMS in-browser notifications and real time notifications sent to 3rd party systems that alert to the presence of enrolled devices.

Physical Specifications

Property	Specification
Physical Dimensions	148mm X 148mm X 33mm/5.8" X 5.8" X 1.3"
Weight	0.324kg / 0.714lb
Operating Temperature	0°C – 45°C (32°F – 113°F)
Storage Temperature	-20°C – 65°C (-4°F – 149°F)
MTBF	952,320 hr @ 40°C 2,080,309 hr @ 25°C
Humidity	5%-95% non-condensing
Power consuption	13W (max) / 2.7W (min) / 11W (avg)
Chipset	Qualcomm IPQ4028 SOC
Processor RAM	Qualcomm IPQ4028 717 MHz quad-core ARM processor with 256 MB RAM and 64 MB Flash



Port	Description	Connector Type	Speed/Protocol
Power	12V 1.5A	5.5mm/2.1mm	N/A
Reset	Reset to factory default settings	Pin hole push button	Hold down and power cycle the device to reset
LAN1	Gigabit Ethernet port that can be used for wired extension for an SSID.	RJ-45	10/100/1000 Mbps Gigabit Ethernet
LAN2/ PoE	Gigabit Ethernet port used to connect to the wired LAN and communicate with the Arista Cloud or Server. This port can also be used to power the device using the 802.3af (PoE) standard.	RJ-45	10/100/1000 Mbps Gigabit Ethernet 802.3af Class 0 PoE PoE input voltage: 48V

Operational Specifications

Operational Specifications	
Input Power	12V DC/1.5A (5.5mm/2.1mm)/802.3af (PoE)
Number of Radios	2 radios; One 2.4 GHz and 5 GHz radio each for simultaneous dual band client access.
Max Clients Supported	512 clients per radio (dependent upon use cases)
MIMO	2x2 for 2.4/5GHz Radios
Number of Spatial Streams	2 for 2.4/5GHz Radios
RF Transmit Power	20 dBm per radio chain (max); Actual power for Tx will depend on Country Regulatory Domain
Simultaneous MU-MIMO Clients	Two 1x1 MU-MIMO clients
Users in a MU-MIMO group with a 2x2 client	1
Bandwidth Agility	Yes
Frequency Bands	2.4-2.4835 GHz, 4.9-5.0 GHz, 5.15-5.25 GHz (UNII-1), 5.25-5.35 GHz, 5.47-5.6 GHz, 5.650-5.725 GHz (UNII-2), 5.725-5.85 GHz (UNII-3)
Dynamic Frequency Selection	Supported in compliance to all latest amendments from FCC, CE, IC, CB, TELEC, KCC regarding certifications.

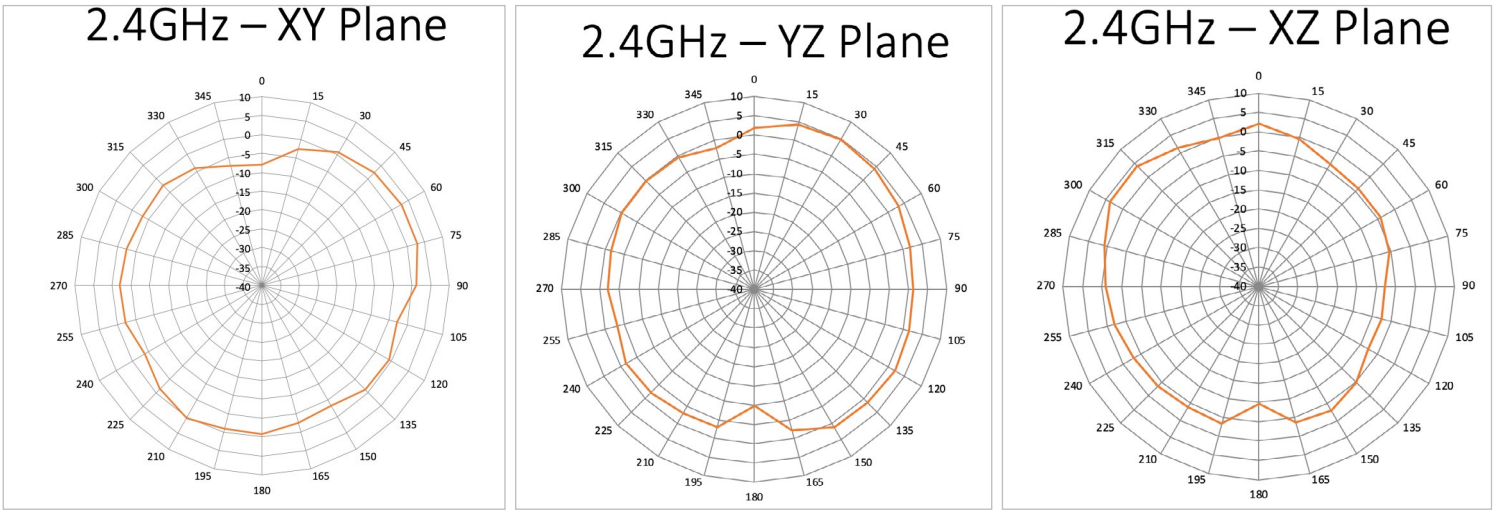
Frequency, Modulation and Data Rates

IEEE 802.11b/g/n			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	2400 ~ 2483.5 MHz	2400 ~ 2473.5 MHz	2400 ~ 2483.5 MHz
Modulation Type	DSSS, OFDM		
Peak Data Rates	Up to 300 Mbps (MCS 0-15)		
Antenna	Integrated modular high efficiency PIFA antenna x4 (peak gain 5.0 dBi)		

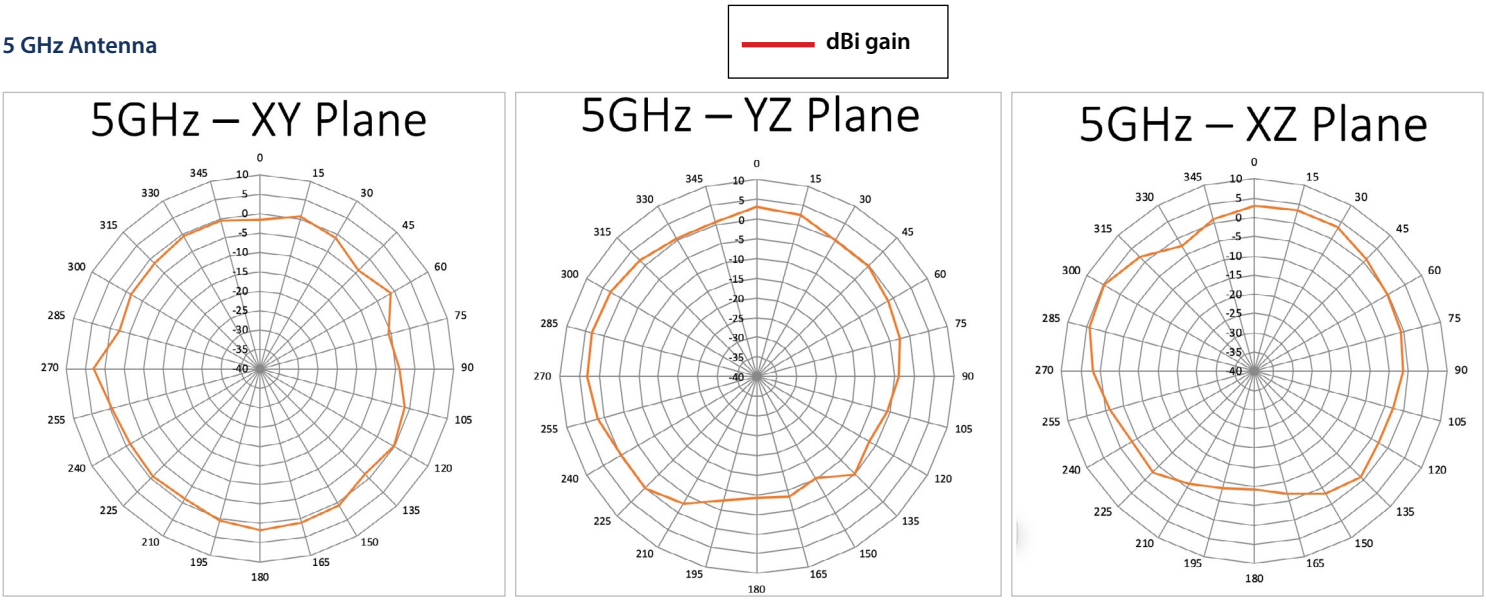
IEEE 802.11a/n/ac			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
	4.92 ~ 5.08 GHz 5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.47 ~ 5.725 GHz 5.725 ~ 5.825 GHz	5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.725 ~ 5.825 GHz	5.15 ~ 5.25 GHz 5.25 ~ 5.35 GHz 5.47 ~ 5.725 GHz
Dynamic Frequency Selection	DFS and DFS2		
Modulation Type	OFDM		
Peak Data Rates	Up to 867 Mbps (MCS 0-15)		
Antenna	Integrated modular high efficiency PIFA antenna x4 (peak gain 5.0 dBi)		

Internal Antenna Radiation Patterns

2 GHz Antenna



5 GHz Antenna



Maximum Aggregate Transmit Power

For 2.4 GHz

MCS Index	Transmit Power(dBm)
802.11b	
1 Mbps	21
11 Mbps	20
802.11g	
6 Mbps	21
54 Mbps	18
802.11n HT20	
MCS 0	21
MCS 7	18
802.11n HT40	
MCS 0	20
MCS 7	18

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

For 5 GHz

MCS Index	Transmit Power(dBm)
802.11a	
6 Mbps	21
54 Mbps	19
802.11n HT20	
MCS 0	21
MCS 7	19
802.11n HT40	
MCS 0	20
MCS 7	18
802.11ac VHT80	
MCS 0	20
MCS 7	18
MCS 8	17
MCS 9	16

Receive Sensitivity

For 2.4 GHz

MCS Index	Receive Sensitivity (dBm)
802.11g	
6 Mbps	-95
54 Mbps	-77
802.11n HT20	
MCS 0	-94
MCS 7	-74
802.11n HT40	
MCS 0	-92
MCS 7	-71

For 5 GHz

MCS Index	Receive Sensitivity (dBm)
802.11a	
6 Mbps	-93
54 Mbps	-76
802.11n HT20	
MCS 0	-93
MCS 7	-73
802.11n HT40	
MCS 0	-89
MCS 7	-71
802.11ac HT20	
MCS 8	-68
802.11ac HT40	
MCS 9	-64
802.11ac HT80	
MCS 9	-61

Regulatory Specifications

RF and Electromagnetic

Country	Certification
USA	FCC Part 15.247, 15.407
Canada	IC
Europe	CE EN300.328, EN301.893 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.

**For complete country certification records, please visit the site: https://www.arista.com/en/support/product-certificate*

Safety

Country	Certification
USA	UL 60950
Canada	cUL 60950
European Union (EU)	EN 60950, RoHS

Ordering Information

Access Point

Part Number	Description
AP-C100-SS-5Y	C-100 2x2:2 dual radio 802.11ac Wave-2 access point with internal antennas and 5 year Cognitive Cloud SW Subscription
AP-C100-SS-3Y	C-100 2x2:2 dual radio 802.11ac Wave-2 access point with internal antennas and 3 year Cognitive Cloud SW Subscription
AP-C100	C-100 2x2:2 dual radio 802.11ac Wave-2 access point with internal antennas

Mounting Options

For details of mounting options, see the Access Points Mounting Brackets Guide.

Power

Part Number	Description
PWR-AP-W4	Universal AC power supply for all APs except for C-110
PWR-AP-PLUS-NA	One port 802.3at PoE+ injector for use with all Access Point models. Includes USA power cord. Not for outdoor use."
PWR-AP-W2	Universal AC power supply for C-120, C-130, W-118 and C-100

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