Key Specifications

- Full featured Wi-Fi 7, 6 Stream AP
- Three 2x2:2 access radios (6 GHz, 5 GHz & 2.4 GHz)
- Full support for Wi-Fi 7 on all three access radios
- Up to 160 MHz channel width support for 5 GHz and 320 MHz for 6 GHz operation
- Up to 5.75 Gbps data rate for 6 GHz, up to 2.88 Gbps for 5 GHz, and up to 0.7 Gbps for 2.4 GHz radios. Aggregate data rate 9.3 Gbps
- 2x2 tri-band multi-function radio for security, network assurance, spectrum analysis, packet capture, locationing and troubleshooting
- Integrated omni directional antennas
- 2x5 Gigabit 802.3at PoE+ port
- BLE 5.3, HADM*, OpenThread*, Matter*, ZigBee* capable IoT radio
- WPA3/OWE capable
- In-built L1+L5 GNSS module
- Support for 802.11az Fine Time Measurement
- TPM for secure storage

Key Features

- Distributed Control Plane and Flexible Data Plane
- Zero-touch deployment through automatic cloud activation and configuration
- Cloud or on premises management plane options
- Integrated firewall, traffic shaping, QoS and BYOD controls per SSID
- Dynamic RF optimization through smart steering, band steering and optimal channel selection
- Application visibility through layer 7 deep packet inspection
- Automated device access logging
- Patented Marker Packets™ technology for rogue AP detection and classification
- Wired VLAN monitoring for "No-WiFi" zone enforcement
- Third party analytics integration with realtime data transfer
- Versatile multi-function radio for WIPS, Scanning and Client Connectivity Tests

Aesthetic Design and High Performance

Arista C-430 is an enterprise-grade, 6 stream Wi-Fi 7 AP with concurrent 6 GHz, 5 GHz and 2.4 GHz band radios supporting 2 stream 802.11be operation. The C-430 has integrated IoT support, integrated GNSS and an additional multi-function, tri-band radio to provide security, network assurance and AI/ML driven troubleshooting.

C-430 Capabilities

C-430 provides Wi-Fi 7 performance improvements to deliver higher capacity and more efficient use of the available spectrum. Utilizing the latest W-Fi 7 technologies, Multi-link operation, Preamble Puncturing, Uplink/ Downlink OFDMA, Uplink/Downlink MU-MIMO coupled with 2 spatial streams in all operating bands, the C-430 delivers high performance even in challenging environments.

The C-430 is ideal for critical, high-density networks serving a high volume of diverse clients and applications. Common deployment scenarios include large enterprises with national and international locations, university campuses and large healthcare and hospital premises.

Arista CloudVision® Managed Wi-Fi

The C-430 is an Arista CloudVision Cognitive Unified Edge (CV-CUE) managed platform. Available as a cloud service or on-premises management platform, CV-CUE leverages a purpose-built cloud architecture delivering cloud grade analytics and automation to enterprise Wi-Fi networks. CloudVision ensures high reliability, scalability, security, and cost effectiveness.

Versatile, multifunction Radio*

C-430 includes a multi-function, 2x2:2 tri-band 802.11be radio that provides:

- Industry leading, continuous WIPS
- Better RRM decisions from continuous spectral visibility
- Network availability and performance assurance by on-demand and scheduled client connectivity test

Arista C-430

**** Hardware is capable of technology. Software support will be provided in future upgrades.***

Access

C-430 is a building block of a self-driving Wi-Fi network , powering AI/ML based continued adaptations, saving time and resources resulting in significant cost savings and increased satisfaction.

- Plug and play provisioning using either Cloud or On-premises deployments - Arista Access Points take less than two minutes to activate and configure after connecting to the cloud
- Network controls like NAT, Firewall and QoS implemented at the Access Point, ensuring faster and more reliable networks
- Continuous scanning of all 2.4GHz, 5GHz and 6GHz channels by a dedicated 2x2 multi-function radio provides a dynamic, 360-degree view of the RF environment to assist in RF optimization and client handling
- Network availability and performance assurance using the multi-function third radio as a client to conduct on-demand and scheduled connectivity and performance tests
- 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 5GHz and 6GHz channels for optimal throughput
- Smart load balancing distributes load evenly across neighbouring APs to optimize the use of network resources
- Arista Wi-Fi's distributed control 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/CBRS in commonly used TDD/FDD frequency bands

Security

C-430 offers complete visibility and control of the wireless airspace ensuring network integrity while actively protecting users without manual intervention.

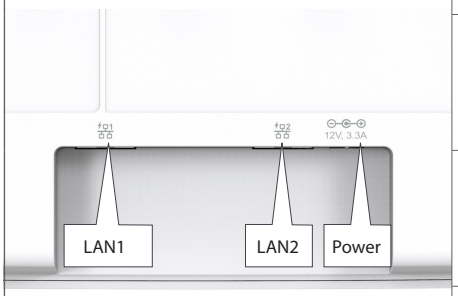
- C-430 is equipped with industry leading fully integrated wireless intrusion prevention capabilities
- Multi-function radio provides uninterrupted spectrum scanning or client emulation for always on security coverage alongside dedicated 2.4GHz, 5GHz and 6GHz access radios
- Arista's patented Marker Packets™ help accurately detect rogue access points on any network while minimizing false positives
- Multi-function radio used as a dedicated security sensor for 24x7x365 scanning and automated over-the-air (OTA) prevention
- Deterministic rogue AP detection and prevention by monitoring all Wi-Fi and non-Wi-Fi VLANs
- OTA and on-the-wire prevention techniques assure automatic and reliable threat prevention to keep unauthorized clients and rogue APs off the network without impacting authorized connections
- Access Points autonomously scan for wireless threats and enforce security policy even if disconnected from the cloud management plane
- VLAN monitoring enables a virtual connection to non-Wi-Fi networks for complete network rogue detection and prevention

Analytics

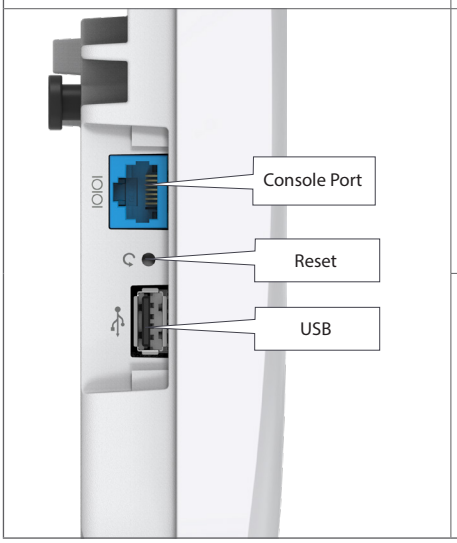
C-430 provides real-time telemetry by granular state steaming and Cognitive Analytics provides correlation analysis and trend analysis using predictive algorithms across wireless and wired networks. Compliance and Risk analysis is supported by continuous assessment and report of deviations.

Physical Specifications

Property	Specification
Physical Dimensions	225mm X 225mm X 45mm/8.9" X 8.9" X 1.8"
Weight	1.47Kg / 3.24 lbs
Operating Temperature	-0°C ~ +45°C (32°F ~ +113°F)
Storage Temperature	40°C ~ +70°C (-40°F ~ +158°F)
MTBF	52225 hours @ 50°C 1077435 hours @ 25°C
Humidity	5-95% non-condensing
Power consumption	24 W (max)
RAM and Flash	3 GB RAM, 32 MB NOR and 8 GB eMMC Flash
Physical security	Kensington lock slot



Port	Description	Connector Type	Speed/Protocol
Power	12 V DC, 3.3A	2.5mm coax DC	NA
LAN1	5 GbE, 802.3at PoE+ compliant, MACsec capable*	RJ- 45	100M/1G/2.5G/5G Ethernet Recommended cabling - CAT6
LAN2	5 GbE, 802.3at PoE+ compliant, MACsec capable*	RJ- 45	100M/1G/2.5G/5G Ethernet Recommended cabling - CAT6



Reset	Reset to factory default settings	Pin hole push button	Let the AP boot up fully, ensure that all the LEDs are ON. Press the reset button for 15 seconds
Console Port	Establish 'config shell' terminal session via serial connection	RJ-45	RS232 Serial (115200 bps) Data bits:8; Stop bits: 1 Parity: None Flow Control: None

** MACsec capabilities will be activated via a future software update.*

Operational Specifications

Input Power	This is an 802.3at Class 4 device. **802.3at Class 4 PoE+** • Full function • Hitless PoE failover between the two ethernet ports
Number of Radios	3 access radios; one 2x2:2 2.4 GHz, 5 GHz, and 6 GHz radios for simultaneous tri-band access. 1 multi-function 2x2 radio for continuous WIPS and client connectivity tests
Max Clients Supported	783 (271 clients on 2.4 GHz radio, 256 clients on 5 GHz radio and 256 clients on 6 GHz radio)
MU-MIMO	2X2 on 2.4 GHz, 5 GHz, and 6 GHz radios
Number of Spatial Streams	2 for 6 GHz radio, 2 for 5 GHz radio, 2 for 2.4 GHz radio, 2 for multipurpose radio
Maximum EIRP	26 dBm on 5 GHz radio (max), 25 dBm on 6 GHz radio (max), and 25 dBm on 2.4 GHz radio (max)[1]
80+80 MHz Non-Contiguous Channel Bonding	No
Bandwidth Agility	No
3G/4G Macro and Small Cells Interference Mitigation	Yes
Frequency Bands[2]	2.4-2.4835 GHz, 4.9-5.0GHz, 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), 5.925 GHz – 6.425 GHz (UNII-5), 6.425 GHz - 6.525 GHz (UNII-6), 6.525 GHz – 6.875 GHz (UNII-7), 6.875GHz - 7.125 GHz (UNII-8)
Dynamic Frequency Selection	Supported in compliance to all latest amendments from FCC, CE, IC, CB, TELEC, KCC regarding certifications

[1] Max EIRP will be restricted to Country/Regulatory domain limits

[2] The frequency ranges are restricted to Country/Regulatory domain limits

Wi-Fi Specifications

IEEE 802.11ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
6 GHz	5.925 GHz – 6.425 GHz 6.425 GHz - 6.525 GHz 6.525 GHz – 6.875 GHz 6.875GHz - 7.125 GHz	5.925 GHz – 6.425 GHz 6.425 GHz - 6.525 GHz 6.525 GHz – 6.875 GHz 6.875GHz - 7.125 GHz	5.925 GHz – 6.425 GHz
Modulation Type	OFDM / OFDMA		
Peak Data Rate	5.75 Gbps		
Antenna	Integrated modular high efficiency PIFA antenna x 2 (peak gain: 5 dBi)		

IEEE 802.11a/n/ac/ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
5 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
Modulation Type	DSSS / OFDM / OFDMA		
Peak Data Rate	2.88 Gbps		
Antenna	Integrated modular high efficiency PIFA antenna x 2 (peak gain: 5 dBi)		

IEEE 802.11b/g/n/ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
2.4 GHz	2.4 – 2.4835 GHz	2.4 – 2.4735 GHz	2.4 – 2.4835 GHz
Modulation Type	DSSS / OFDM / OFDMA		
Peak Data Rate	700 Mbps		
Antenna	Integrated modular high efficiency PIFA antenna x 2 (peak gain: 4 dBi)		

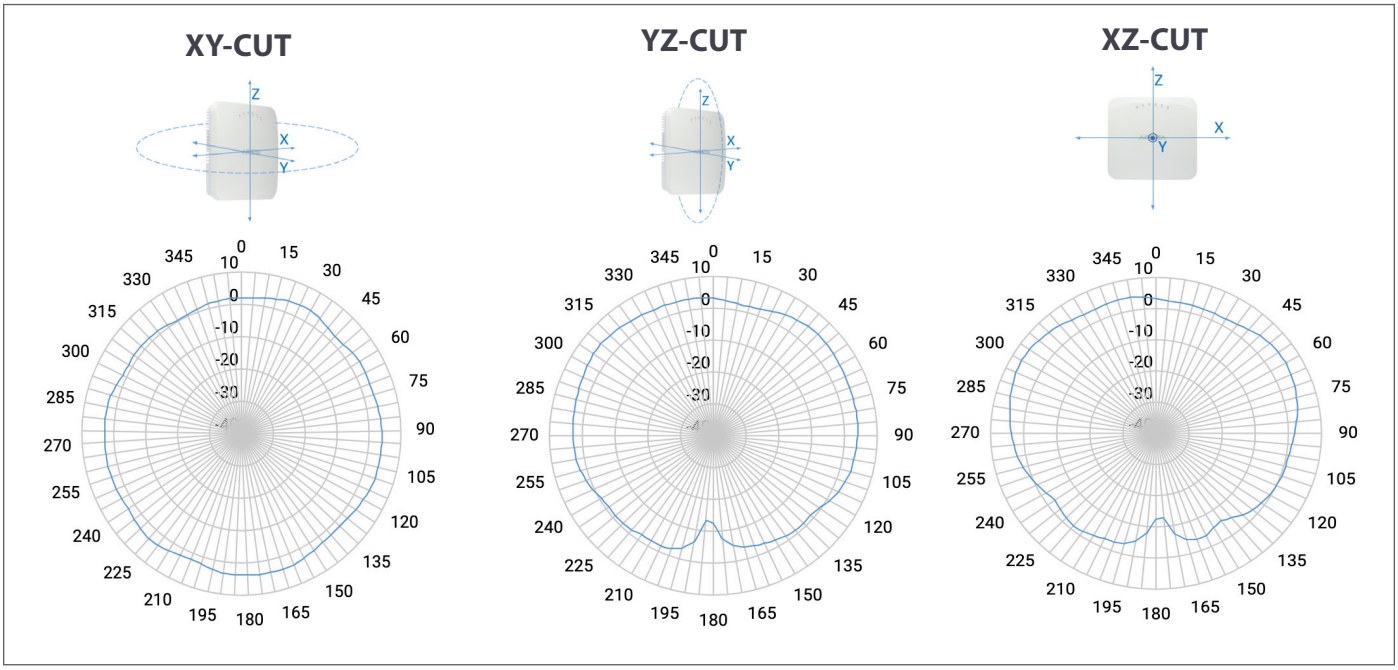
Power values

2.4 GHz	Maximum EIRP (dBm)		Receive Sensitivity (dBm)	
802.11b				
1 Mbps	25		-99	
11 Mbps	25		-91	
802.11g				
6 Mbps	25		-96	
54 Mbps	23		-77	
802.11n	**HT20**	**HT40**	**HT20**	**HT40**
MCS 0	25	25	-96	-94
MCS 7	23	23	-77	-74
802.11ac	**VHT20**	**VHT40**	**VHT20**	**VHT40**
MCS 0	25	25	-97	-94
MCS 8/9	23	22	-73	-69
802.11ax	**HE20**	**HE40**	**HE20**	**HE40**
MCS 0	25	25	-96	-94
MCS 11	21	21	-65	-63
802.11be	**EHT20**	**EHT40**	**EHT20**	**EHT40**
MCS 0	25	25	-96	-94
MCS 13	18	18	-67	-64
5 GHz	**Maximum EIRP (dBm)**		**Receive Sensitivity (dBm)**	
802.11a				
6 Mbps	25		-93	
54 Mbps	22		-75	

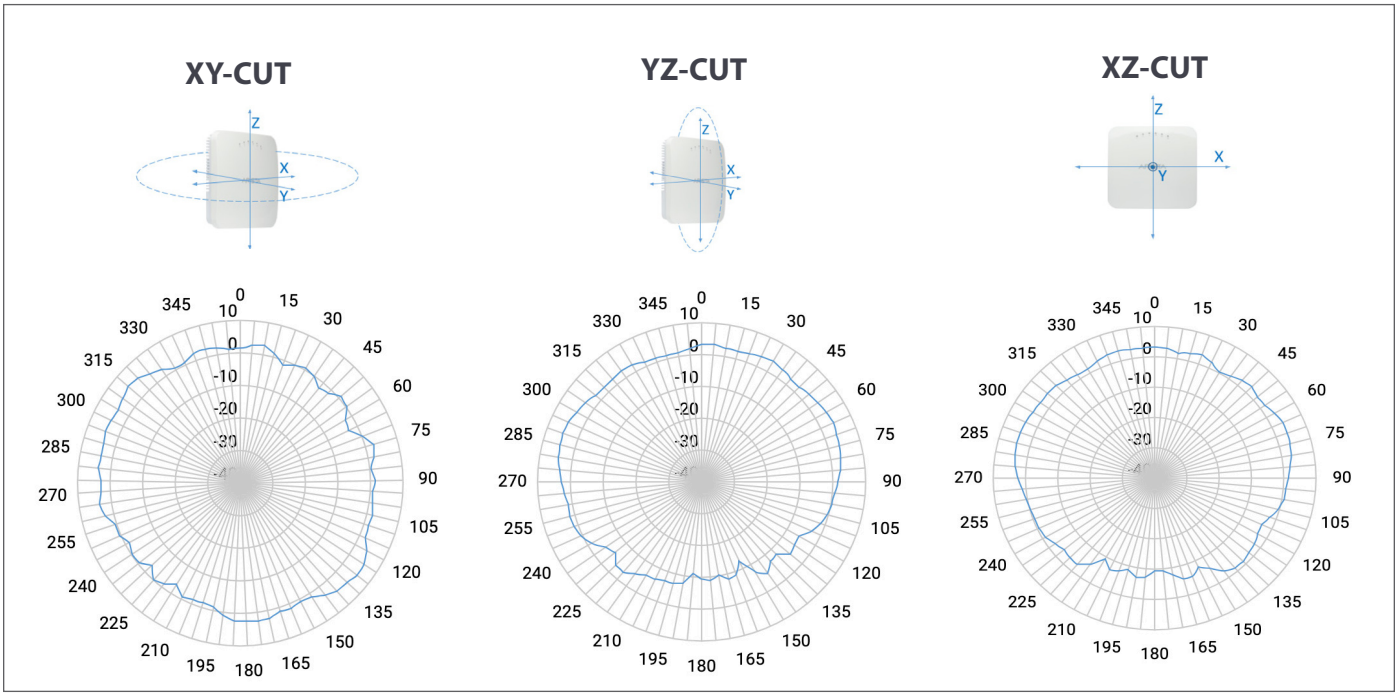
5 GHz	Maximum EIRP (dBm)					Receive Sensitivity (dBm)				
802.11n	**HT20**	**HT40**				**HT20**	**HT40**			
MCS 0	25	25				-93	-90			
MCS 7	22	22				-75	-93			
802.11ac	**VHT20**	**VHT40**	**VHT80**			**VHT20**	**VHT40**	**VHT80**		
MCS 0	25	25	24			-93	-91	-88		
MCS 8/9	22	22	22			-70	-67	-63		
802.11ax	**HE20**	**HE40**	**HE80**	**HE160**		**HE20**	**HE40**	**HE80**	**HE160**	
MCS 0	25	25	24	24		-93	-91	-88	-87	
MCS 11	21	21	21	21		-63	-62	-58	-58	
802.11be	**EHT20**	**EHT40**	**EHT80**	**EHT160**		**EHT20**	**EHT40**	**EHT80**	**EHT160**	
MCS 0	25	25	24	24		-92	-90	-88	-87	
MCS 13	20	20	20	20		-57	-57	-55	-54	
6 GHz	**Maximum EIRP (dBm)**					**Receive Sensitivity (dBm)**				
802.11ax	**HE20**	**HE40**	**HE80**	**HE160**		**HE20**	**HE40**	**HE80**	**HE160**	
MCS 0	24	25	25	24		-95	-92	-88	-86	
MCS 11	20	20	20	20		-64	-62	-59	-57	
802.11be	**EHT20**	**EHT40**	**EHT80**	**EHT160**	**EHT320**	**EHT20**	**EHT40**	**EHT80**	**EHT160**	**EHT320**
MCS 0	24	25	25	24	25	-94	-92	-87	-86	-84
MCS 13	18	19	19	18	18	-58	-57	-55	-53	-54

Radiation Pattern

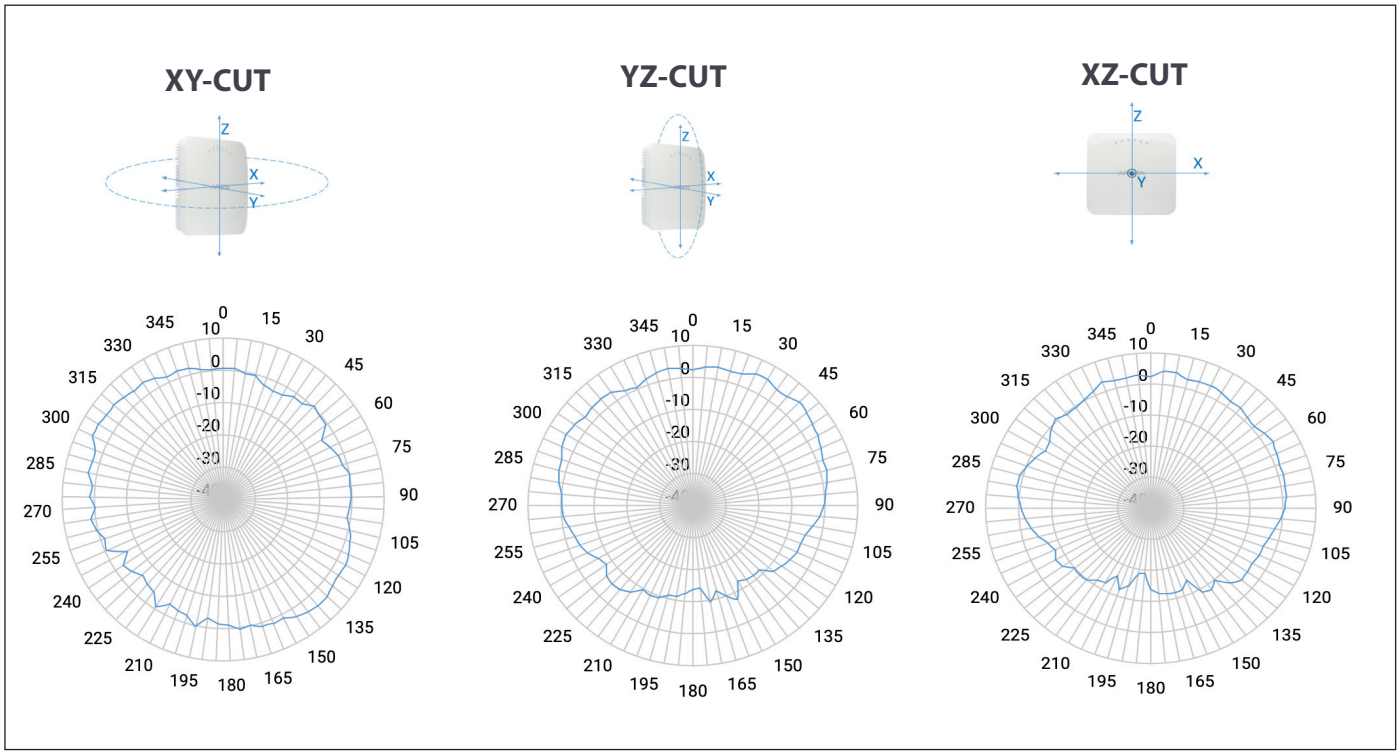
Radio 1:
2.4GHz



Radio 2:
5GHz



Radio 3:
6GHz


XY-CUT
YZ-CUT
XZ-CUT
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165
180
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225
240
255
270
285
300
315
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345
10
0
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-20
-30

Regulatory Specifications

RF and Electromagnetic Compatibility (EMC)

Country	Certification
USA	47 CFR FCC Part 15.247, Part 15.407, Part 15, Subpart B
Canada	RSS-102, RSS-247, RSS-248, ICES-003
European Union	EN 300 328, EN 300 440, EN 301 893, EN 62311, EN 50385, EN 50665, EN 301 489-1, EN 301 489-17, EN 55032, EN 55035, EN 303 413, EN 303 687, UK IR 2030/8/3, CISPR 32, CISPR 35 Countries covered under Europe certification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom.

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

Safety & Environmental

Country	Certification
USA, Canada	UL62368-1, 3rd Edition; CAN/CSA C22.2 No 62368-1:19, UL 2043
European Union (EU)	IEC/EN 62368-1 2nd edition
Taiwan	CNS 15598-1, CNS 15663 RoHS
International	IEC 62368-1: 2018

Ordering Information

Access Point

Part Number	Description
AP-C430	C-430 2x2 tri radio 802.11be (WiFi 7) access point with internal antennas
AP-C430-SS-5Y	C-430 AP with 5 years bundled Cognitive Cloud SW subscription
AP-C430-SS-3Y	C-430 AP with 3 years bundled Cognitive Cloud SW subscription

Mounting Options

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

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