Key Specifications

- Full featured Wi-Fi 7, 12 Stream AP

- Three 4x4:4 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 1.4 Gbps throughput for 2.4 GHz radio and up to 5.76 Gbps throughput for 5 GHz and 11.5 Gbps for 6 GHz radios.

- 2x2 tri-band multi-function radio for security, network assurance, spectrum analysis, packet capture, locationing and troubleshooting

- Integrated omni directional antennas

- 2x10 Gigabit Ethernet PoE ++ ports

- PoE++ for full functionality and PoE+ with reduced functionality

- Wall and ceiling mounting options

- HADM, BLE, 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

- Operating modes for dedicated access, dedicated security, or dual mode

- AI/ML driven diagnostics, troubleshooting and remediation recommendations

- Integrated firewall, traffic shaping, QoS and BYOD controls per SSID

- Dynamic RF optimization through smart steering, band steering and power control

- Application visibility through layer 7 deep packet inspection

- Automated device access logging

- Patented Marker Packet™ technology for rogue AP detection and classification

- Wired VLAN monitoring for "No-WiFi" zone enforcement

- Third party analytics integration with real- time data transfer

- Versatile multi-function radio for WIPS, Scanning and Client Connectivity Tests

- Self-healing wireless mesh networking

High capacity, High performance and Investment protection

Arista C-460 is a high-end Wi-Fi 7 enterprise grade access point featuring concurrent 6GHz, 5GHz and 2.4GHz 4 stream 802.11be operation, integrated IoT support, integrated GNSS and an additional multi-function, tri-band radio to provide security, network assurance and AI/ML driven troubleshooting.

C-460 Capabilities

C-460 Wi-Fi 7 access point provides the highest capacity, best spectrum utilization and flexibility to deliver industry leading user experience in high density environments that require best performance and security. Utilizing the latest W-Fi 7 technologies, Multi-link operation, Preamble Puncturing, Uplink/Downlink OFDMA, Uplink/Downlink MU-MIMO coupled with 4 spatial streams in all operating bands, the C-460 delivers truly unmatched performance even in the most challenging environments. C-460 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-460 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-460 includes a multi-function, 2x2:2 tri-band 802.11ax 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-460

Access

C-460 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 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

C-460 offers complete visibility and control of the wireless airspace ensuring network integrity while actively protecting users without manual intervention.
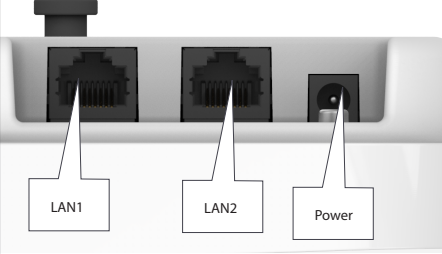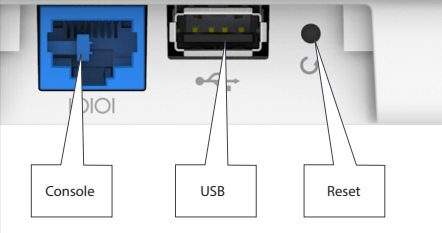
- C-460 is equipped with industry leading fully integrated wireless intrusion prevention capabilities

- 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

- Multifunction 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-460 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	240mm x 240mm x 42.5mm/9.45" X 9.45" X 1.67"
Weight	1.73 Kgs/3.81 lbs
Operating Temperature	0ºC ~ +45ºC (+32ºF ~ +113ºF)
Storage Temperature	-40ºC ~ +70ºC (-40ºF ~ +158ºF)
MTBF	1,240,693 hours @ 25 °C 465,728 hours @ 50 °C
Humidity	5-95% non-condensing
Power consumption	41.8 W (max)
RAM and Flash	3 GB RAM and 8GB eMMC Flash
Physical security	Kensington lock slot

Port	Description	Connector Type	Speed/Protocol
Power	12V DC, 4 A	5.5mm overall diameter / 2.1mm center pin hole	N/A
LAN1	10 GbE, PoE++ compliant, MACsec capable*	RJ-45	100M/1G/2.5G/5G/10G Ethernet Recommended cabling - CAT6A
LAN2	10 GbE, PoE++compliant, MACsec capable*	RJ-45	100M/1G/2.5G/5G/10G Ethernet Recommended cabling - CAT6A
Console	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
USB	USB 2.0 port	USB Type-A	Future use
Reset	Reset to factory default settings port	Pin hole push button	Hold down and power cycle the device to reset

MACsec capabilities will be activated via a future software update.

Operational Specifications

Input Power	PoE++ and 12V DC, 4 A (5.5mm overall diameter/2.1mm center pin hole) • Full function PoE+ • USB off • Max EIRP[1] of 25 dBm at 6GHz, 22 dBm at 5 GHz and 2.4 GHz • All bands limited to 2x2 operation Hitless PoE failover between the two ethernet ports
Number of Radios	3 access radios; 4x4:4 2.4GHz, 4x4:4 5GHz and 4x4:4 6GHz radio for simultaneous tri-band access. 1 multi-function 2x2 radio for continuous WIPS and client connectivity tests 1 IoT radio 1 GNSS radio
Max Clients Supported	1280 (256 clients on 2.4 GHz radio, 512 clients on 5 GHz radio and 512 clients on 6 GHz radio)
Number of Spatial Streams	4 each per access radio, 2 for multi-function radio
Maximum EIRP	27.7 dBm on 6GHz, 27.6 dBm on 5GHz radio and 28.1 dBm on 2.4GHz radio (max)[1]
80+80MHz 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, 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)
6GHz	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	11.5 Gbps		
Antenna	Integrated modular high efficiency PIFA antenna x4 (peak gain: 5.75 dBi)		

IEEE 802.11a/n/ac/ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
5GHz	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	5.76 Gbps		
Antenna	Integrated modular high efficiency PIFA antenna x4 (peak gain: 5.25 dBi)		

IEEE 802.11b/g/n/ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
2.4GHz	2.4 – 2.4835 GHz	2.4 – 2.4735 GHz	2.4 – 2.4835 GHz
Modulation Type	DSSS / OFDM / OFDMA		
Peak Data Rate	1.4 Gbps		
Antenna	Integrated modular high efficiency PIFA antenna x4 (peak gain: 2.8 dBi)		

Receive Sensitivity

For 6GHz

Mode	Rate	Sensitivity (dBm)
802.11ax_HE20	MCS 0	-94
	MCS 11	-63
802.11ax_HE40	MCS 0	-91
	MCS 11	-61
802.11ax_HE80	MCS 0	-88
	MCS 11	-58
802.11ax_HE160	MCS 0	-85
	MCS 11	-56
802.11be_EHT20	MCS 0	-93
	MCS 13	-58
802.11be_EHT40	MCS 0	-90
	MCS 13	-56
802.11be_EHT80	MCS 0	-87
	MCS 13	-54
802.11be_EHT160	MCS 0	-85
	MCS 13	-50
802.11be_EHT320	MCS 0	-83
	MCS 13	-47

For 2.4GHz

Mode	Rate	Sensitivity (dBm)
802.11b	1 Mbps	-98
	11 Mbps	-90
802.11g	6 Mbps	-94
	54 Mbps	-76
802.11n_HT20	MCS 0	-94
	MCS 7	-76
802.11n_HT40	MCS 0	-90
	MCS 7	-73
802.11ac_VHT20	MCS 0	-94
	MCS 8	-72
802.11ac_VHT40	MCS 0	-90
	MCS 9	-68
802.11ax_HE20	MCS 0	-94
	MCS 11	-65
802.11ax_HE40	MCS 0	-90
	MCS 11	-62
802.11be_EHT20	MCS 0	-94
	MCS 13	-59
802.11be_EHT40	MCS 0	-90
	MCS 13	-57

For 5GHz

Mode	Rate	Sensitivity (dBm)
802.11a	6 Mbps	-93
	54 Mbps	-75
802.11n_HT20	MCS 0	-93
	MCS 7	-75
802. 11n_HT40	MCS 0	-91
	MCS 7	-73
802.11ac_VHT20	MCS 0	-93
	MCS 8	-70
802.11ac_VHT40	MCS 0	-91
	MCS 9	-67
802.11ac_VHT80	MCS 0	-88
	MCS 9	-63
802.11ax_HE20	MCS 0	-93
	MCS 11	-63
802.11ax_HE40	MCS 0	-91
	MCS 11	-61
802. 11ax_HE80	MCS 0	-88
	MCS 11	-58
802.11ax_HE160	MCS 0	-86
	MCS 11	-56
802.11be_EHT20	MCS 0	-93
	MCS 13	-58
802.11be_EHT40	MCS 0	-90
	MCS 13	-56
802.11be_EHT80	MCS 0	-87
	MCS 13	-54
802.11be_EHT160	MCS 0	-85
	MCS 13	-50
802.11be_EHT320	MCS 0	-83
	MCS 13	-47

Maximum EIRP

For 5GHz

Mode	Rate	Power (dBm)
802.11a	6 Mbps	27.3
	54 Mbps	24.8
802.11n_HT20	MCS 0	27.4
	MCS 7	24.9
802.11n_HT40	MCS 0	27.6
	MCS 7	25.0
802.11ac_VHT20	MCS 0	27.4
	MCS 8	24.5
802.11ac_VHT40	MCS 0	27.5
	MCS 9	24.5
802.11ac_VHT80	MCS 0	27.3
	MCS 9	24.2
802.11ax_HE20	MCS 0	27.4
	MCS 11	24.5
802.11ax_HE40	MCS 0	27.6
	MCS 11	24.5
802.11ax_HE80	MCS 0	27.2
	MCS 11	24.2
802.11ax_HE160	MCS 0	27.4
	MCS 11	24.2
802.11be_EHT20	MCS 0	27.5
	MCS 13	23.6
802.11be_EHT40	MCS 0	27.4
	MCS 13	23.5
802.11be_EHT80	MCS 0	27.2
	MCS 13	23.3
802.11be_EHT160	MCS 0	27.4
	MCS 13	23.2

For 6GHz

Mode	Rate	Sensitivity (dBm)
802.11ax_HE20	MCS 0	27.3
	MCS 11	23.5
802.11ax_HE40	MCS 0	27.6
	MCS 11	23.5
802.11ax_HE80	MCS 0	27.4
	MCS 11	23.4
802.11ax_HE160	MCS 0	27.5
	MCS 11	23.3
802.11be_EHT20	MCS 0	27.6
	MCS 13	22.6
802.11be_EHT40	MCS 0	27.5
	MCS 13	22.6
802.11be_EHT80	MCS 0	27.5
	MCS 13	22.5
802.11be_EHT160	MCS 0	27.6
	MCS 13	22.4
802.11be_EHT320	MCS 0	27.7
	MCS 13	22.4

For 2.4GHz

Mode	Rate	Sensitivity (dBm)
802.11b	1 Mbps	28.1
	11 Mbps	28.1
802.11g	6 Mbps	27.3
	54 Mbps	24.7
802.11n_HT20	MCS 0	27.3
	MCS 7	24.3
802.11n_HT40	MCS 0	27.6
	MCS 7	24.4
802.11ax_HE20	MCS 0	27.4
	MCS 8	23.0
802.11ax_HE40	MCS 0	27.7
	MCS 9	23.0
802.11be_EHT20	MCS 0	27.3
	MCS 13	21.0
802.11be_EHT40	MCS 0	27.5
	MCS 13	21.1

Radiation Pattern
Radio 1:
2.4GHz
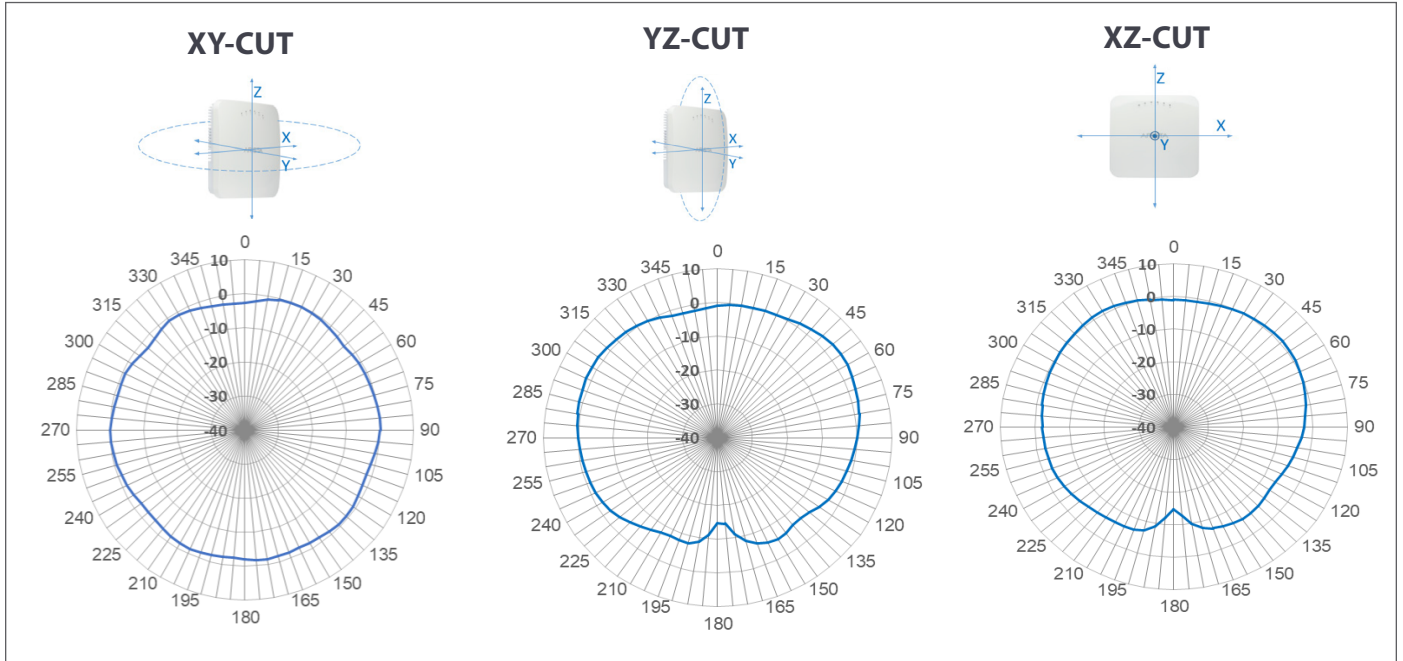
Radio 2:
5GHz

Radio 3:
6GHz

XY-CUT   YZ-CUT   XZ-CUT
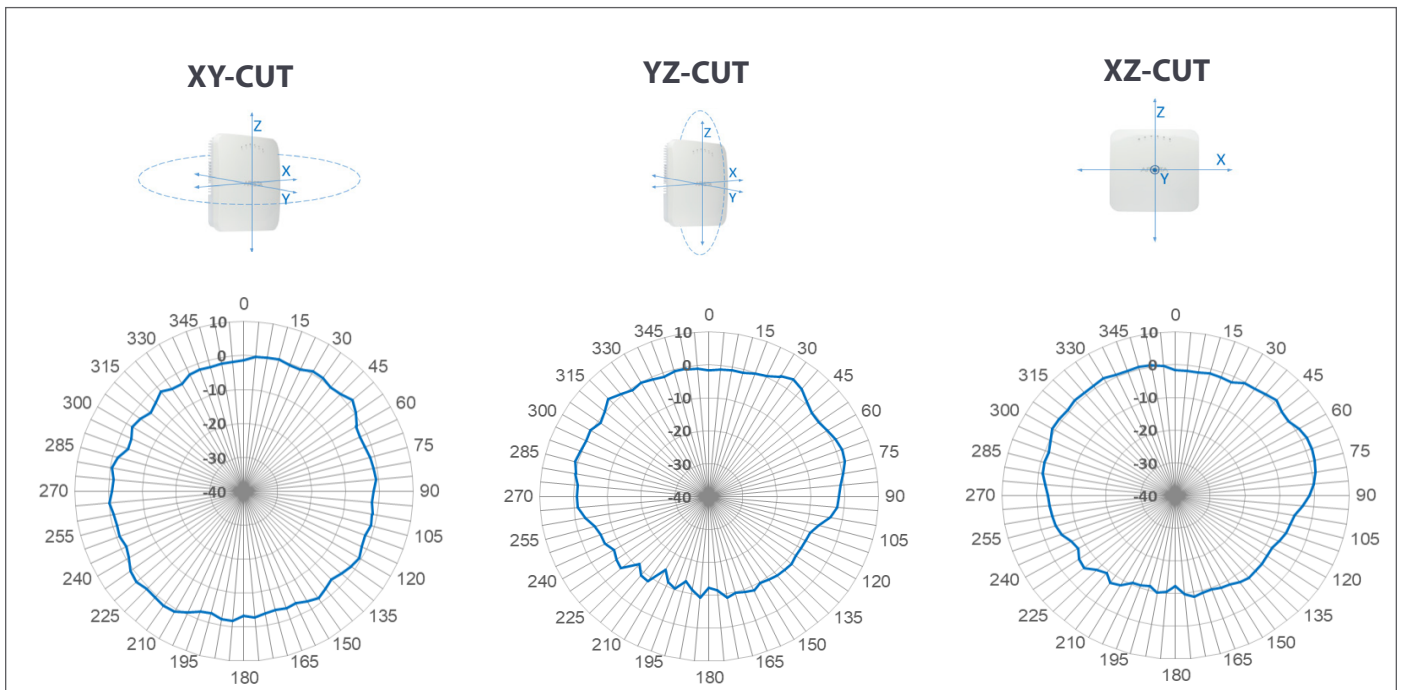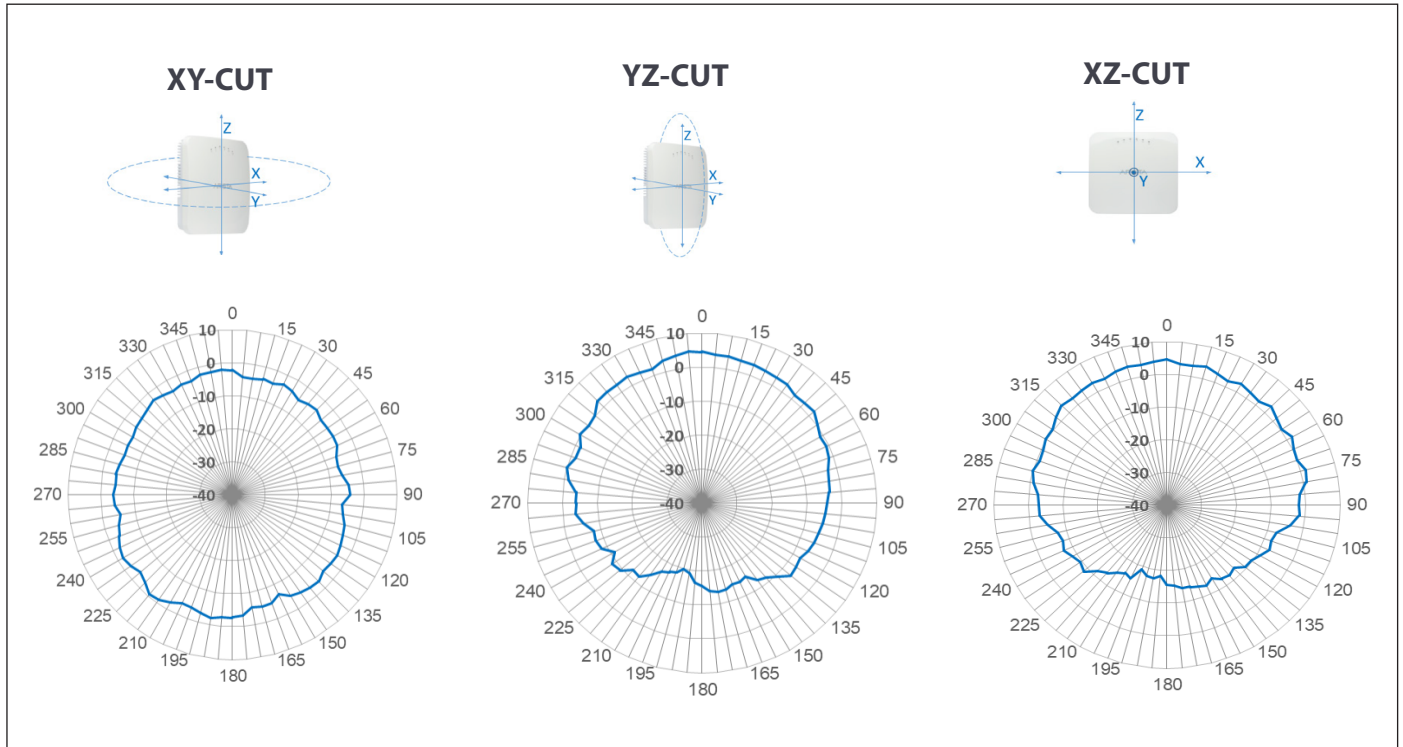
Regulatory Specifications
RF and Electromagnetic Compatibility (EMC)

Country	Certification
USA	FCC Part 15.247, Part 15.407, Part 15, Subpart B
Canada	RSS-102, RSS-247, RSS-248, ICES-003
Europe	EN 300 328, EN 300 440, EN 301 893, EN 62311, EN 50385, EN 301 489-1, EN 301 489-17, EN 301 489-3, EN 301 489-19, EN 55032, EN 55035, EN 303 413, Draft EN 303 687, 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-C460	C-460 tri-band 4x4 Wi-Fi 7 access point with internal antennas
AP-C460-SS-5Y	C-460 AP with 5 years bundled Cognitive Cloud SW subscription
AP-C460-SS-3Y	C-460 AP with 3 years bundled Cognitive Cloud SW subscription

Mounting Options

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

Power

Part Number	Description
PWR-AP-W5	Universal AC power supply, 12V DC, 4 A

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