Key Specifications

- Full featured Wi-Fi 7, 12 Stream AP
- Three 4x4:4 access radios (6 GHz, 5 GHz & 2.4 GHz)
- Built-in directional antennas for both access and multi-function radios with switchable wide (75°x75°) and narrow (45°x45°) beam widths
- Up to 160 MHz channel width support for 5 GHz and 320 MHz for 6 GHz operation
- Up to 1.4 Gbps data rate for 2.4 GHz radio and up to 5.76 Gbps data rate for 5 GHz and 11.5 Gbps for 6 GHz radios.
- 2x2 tri-band multi-function radio with directional antenna for security, network assurance, spectrum analysis, packet capture, locationing and troubleshooting
- 2x10 Gigabit Ethernet PoE ++ ports
- PoE++ for full functionality and PoE+ with reduced functionality
- Wall and ceiling mounting options
- 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
- 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

High capacity, High performance and Investment protection

Arista C-460D 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.

The built-in directional antennas with switchable beamwidths make it ideal for high density environments.

C-460D Capabilities

C-460D 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-460D delivers truly unmatched performance even in the most challenging environments. C-460D is ideal for high-density networks serving a high volume of diverse clients and applications. Common deployment scenarios include large warehouses, manufacturing facilities, arenas, sports stadiums, lecture halls and open office spaces with high ceilings.

Arista CloudVision® Managed Wi-Fi

The C-460D 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-460D 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-460D

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

Access

C-460D 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-460D offers complete visibility and control of the wireless airspace ensuring network integrity while actively protecting users without manual intervention.

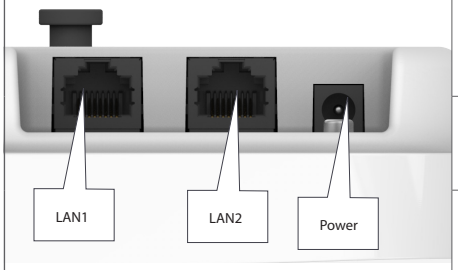
- C-460D is equipped with industry leading fully integrated wireless intrusion prevention capabilities
- Multi-function radio provides uninterrupted spectrum scanning or client emulation for always on security coverage alongside dedicated 2.4GHz, 5GHz and 6GHz access radios
- Arista's patented Marker 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

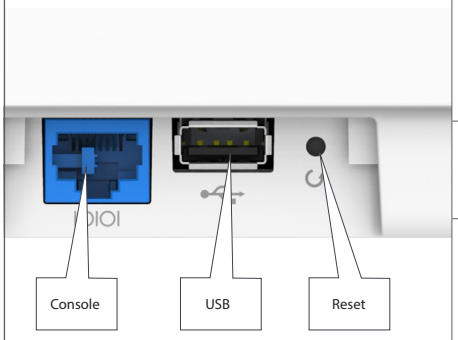
Analytics

C-460D 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	2 Kgs/4.4 lbs
Operating Temperature	0°C ~ +45°C (+32°F ~ +113°F)
Storage Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
MTBF	1,240,693 hours @ 25°C 465,728 hours @ 50°C
Humidity	5-95% non-condensing
Power consumption	44.4 W (max)
RAM and Flash	3 GB RAM and 8 GB 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	Let the AP boot up fully, ensure that all the LEDs are ON. Press the reset button for 15 seconds

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

Operational Specifications

Input Power	This is an 802.3bt Class 6 device. **802.3bt Class 6 PoE++ and 12V DC, 4 A (5.5mm overall diameter/2.1mm center pin hole)** • Full function • Hitless PoE failover between the two ethernet ports **802.3at Class 4 PoE+** • USB off • Max EIRP[1] of 22 dBm at 2.4 GHz • Max EIRP[1] of multi-function radio reduced by 3 dB • LAN2 disabled • 2.4 GHz limited to 2x2 operation
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	1533 (511 clients per 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 25 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

Beamwidth Mode Specifications

Attribute	2.4GHz Access Radio 4x4	5GHz Access Radio 4x4	6GHz Access Radio 4x4	2.4GHz MFR 2x2	5/6GHz MFR 2x2
Beamwidth Modes	75°x75°	Narrow: 45°x45° Wide: 75°x75°	Narrow: 45°x45° Wide: 70°x70°	80°x80°	Narrow: 50°x50° Wide: 70°x70°
Peak Antenna Gain (dBi)	6.48	Narrow: 7.12 Wide: 5.57	Narrow: 6 Wide: 6	5	Narrow: 5 Wide: 5

Wi-Fi Specifications

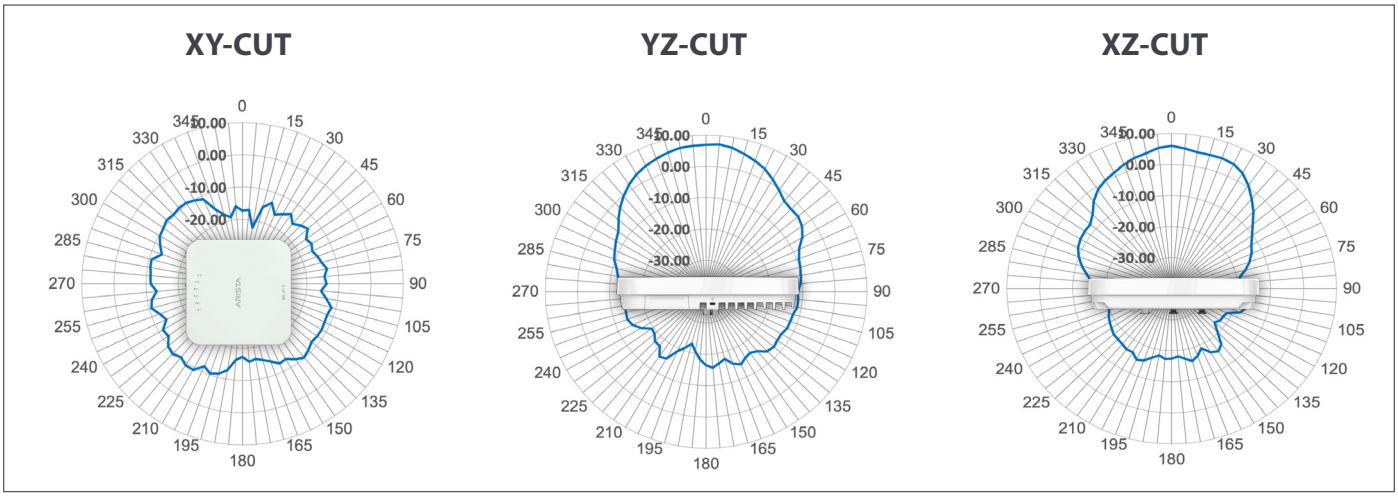
IEEE 802.11ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
6GHz	5.925 GHz – 6.425 GHz 6.425 GHz - 6.525 GHz 6.525 GHz – 6.875 GHz 6.875GHz - 7.125 GHz	5.925 GHz – 6.425 GHz 6.425 GHz - 6.525 GHz 6.525 GHz – 6.875 GHz 6.875GHz - 7.125 GHz	5.925 GHz – 6.425 GHz
Modulation Type	OFDM / OFDMA		
Peak Data Rate	11.5 Gbps		
Antenna	Built-in directional antenna x4 (peak gain: 6 dBi for 45°, 6 dBi for 70°)		

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	Built-in directional antenna x4 (peak gain: 7.12 dBi for 45°, 5.57 dBi for 75°)		

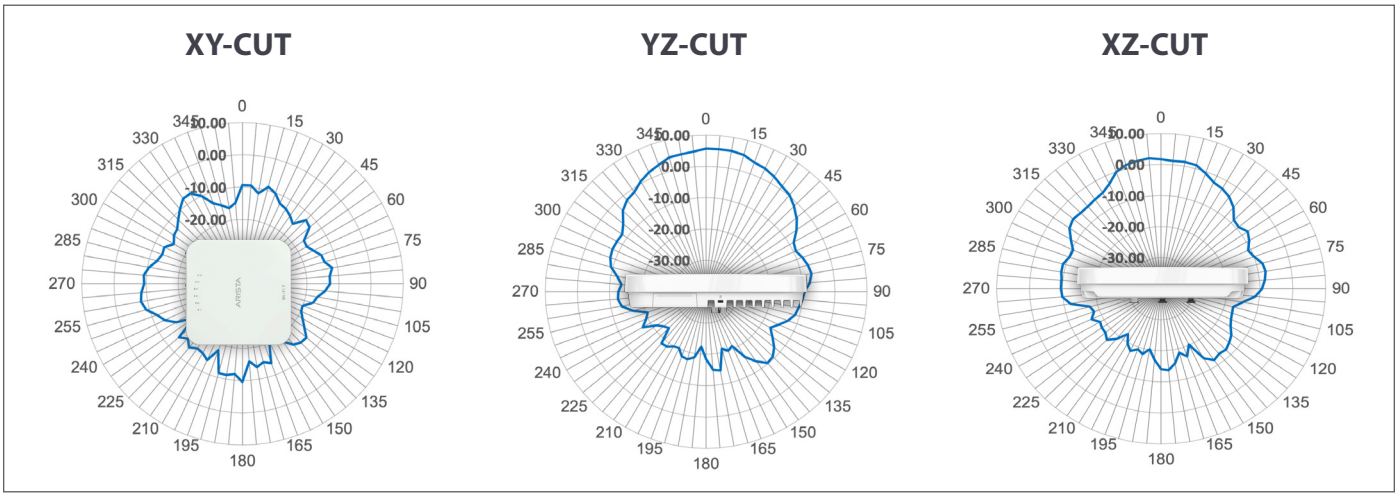
IEEE 802.11b/g/n/ax/be			
Frequency Band	Scanning	Transmission	
	All regions	USA & Canada (FCC/IC)	Europe (ETSI)
2.4GHz	2.4 – 2.4835 GHz	2.4 – 2.4735 GHz	2.4 – 2.4835 GHz
Modulation Type	DSSS / OFDM / OFDMA		
Peak Data Rate	1.4 Gbps		
Antenna	Built-in directional antenna x4 (peak gain: 6.48 dBi for 75°)		

Radiation Pattern: Narrow Beam

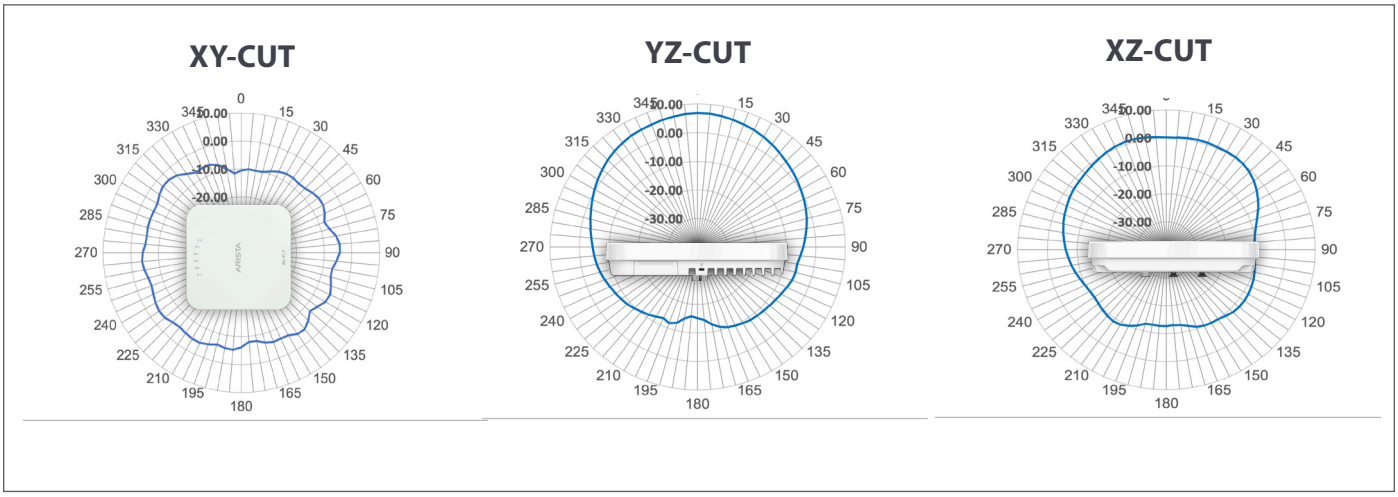
Radio 2: 5GHz



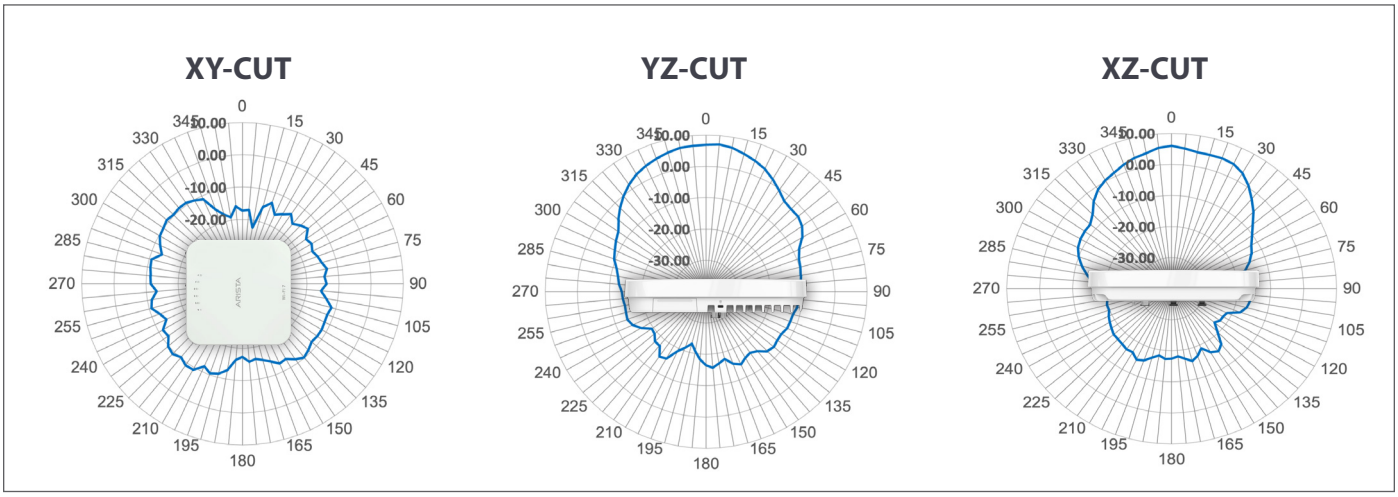
Radio 3: 6GHz



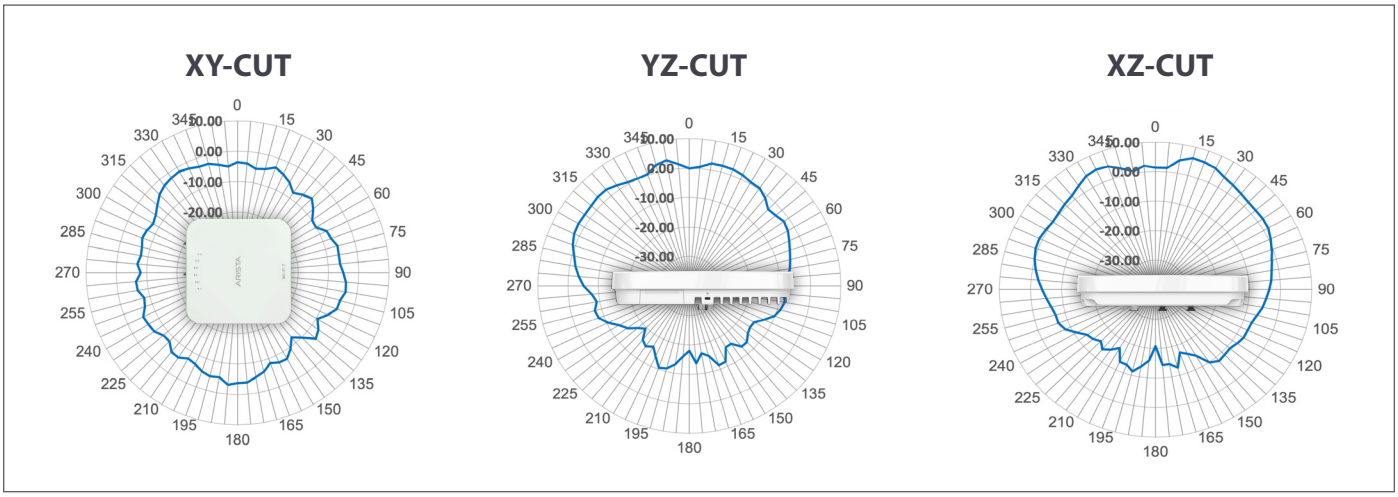
Radiation Pattern: Wide Beam
Radio1: 2.4GHz



Radio 2: 5GHz



Radio 3: 6GHz



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, EN 18031-1:2024, 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-C460D	C-460D tri-band 4x4 Wi-Fi 7 access point with internal antennas
AP-C460D-SS-5Y	C-460D AP with 5 years bundled Cognitive Cloud SW subscription
AP-C460D-SS-3Y	C-460D 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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