

Key Specifications

- Full featured Wi-Fi 6, 6 Stream AP
- 4x4:4 5GHz Radio + 2x2:2 2.4 GHz Radio
- Up to 0.6 Gbps throughput for 2.4 GHz radio
- Up to 2.4 Gbps throughput for 5 GHz radio
- Additional 2x2 dual band radio for dedicated RF and WIPS scanning
- Integrated omnidirectional antennas
- 20/40/80/160 MHz channel width support
- 5 Gigabit + 1 Gigabit Ethernet ports
- Support for UL/DL MU-MIMO
- Support for UL/DL OFDMA
- 802.3at PoE support
- Wall and ceiling mounting options
- Integrated BLE

Key Features

- Distributed Data Plane architecture
- 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
- Support for up to 8 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
- 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 real-time data transfer
- Versatile 3rd radio for WIPS, Scanning and Client Connectivity Tests

Aesthetic Design and High Performance

Arista C-230 is an enterprise-grade, 6 stream Wi-Fi 6 AP with dual concurrent 5 GHz and 2.4 GHz band radios supporting 4 stream 802.11 a/n/ac/ax, 2 stream 802.11 b/g/n/ax and data rates of up to 2.4 Gbps and 0.6 Gbps, respectively. It also has a 2.4GHz Bluetooth Low Energy (BLE) radio.

C-230 Capabilities

C-230 provides Gen 2 Wi-Fi 6 performance improvements to deliver higher capacity and more efficient use of the available spectrum. It provides industry leading user experience and throughput in high density environments.

Uplink/ Downlink OFDMA channelization allocates bandwidth more efficiently across client devices to provide a better user experience. The ability to serve multiple clients simultaneously through UL/DL MU-MIMO further improves system capacity and user experience.

C-230 is ideal for critical, high-density networks serving a high volume of diverse clients and applications. Common deployment scenarios include large schools, large remote offices, auditoriums, meeting rooms, and enterprise campuses.

Arista CloudVision® Managed Wi-Fi

The C-230 is an Arista CloudVision Wi-Fi managed platform. Available as a cloud service or on prem management platform, CloudVision Wi-Fi 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, multipurpose 3rd Radio

C-230 comes with a versatile multipurpose 2x2:2 dual band 802.11ac third 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-230

Access

C-230 provides Wi-Fi 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
- Continuous scanning of all 2.4 GHz and 5 GHz channels by a dedicated 2x2 third 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 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 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

C-230 offers complete visibility and control of the wireless airspace ensuring network integrity while actively protecting users without manual intervention.


- C-230 is equipped with industry leading fully integrated wireless intrusion prevention capabilities
- Multifunction third radio provides uninterrupted spectrum scanning or client emulation for always on security coverage alongside dedicated 2.4G/5G client radios.
- Arista's patented Marker Packets™ help accurately detect rogue access points on any network while minimizing false positives
- Third 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 WiFi and non-WiFi VLANs.
- Over-the-air 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-WiFi networks for complete network rogue detection and prevention



Analytics

The C-230 collects telemetry on connected and unconnected WiFi clients and supports immersive guest network experiences that help Arista's customers develop and reinforce the relationship with their end customers.

- 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 via 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 | 205mm x 205mm x 45.8mm/8.1" X 8.1" X 1.8" |
| | Weight | 1kg / 2.2 lb |
| | Operating Temperature | 0°C ~ +40°C (+32°F ~ +104°F) |
| | Storage Temperature | -25°C ~ +70°C (-40°F ~ +158°F) |
| | MTBF | 343,175 hr @ 40°C 641,425 hr @ 25°C |
| | Humidity | 0-95% non-condensing |
| | Power consumption | 26 W (max) / 11.8 W (min) / 22.8 W (avg) |
| | Chipset | Qualcomm IPQ8071A 1GHz quad core ARM processor with QCN5154 x2 and QCN5124 QCA9882 (multipurpose third radio) |
| | Processor and RAM | 1 GB RAM and 512 MB Flash |

|  | Port | Description | Connector Type | Speed/Protocol |
|---|---------|---|--|---|
| | Power | 12V DC | 5.5 mm overall diameter / 2.1 mm center pin hole | N/A |
| | LAN1 | 5 GbE, 802.3at compliant PoE, MACsec capable* | RJ-45 | 100M/1G/2.5G/5G Ethernet |
|  | LAN2 | 1 GbE | RJ-45 | 100M/1G Ethernet |
| | Console | Establish 'config shell' terminal session via serial connection | RJ-45 | <ul style="list-style-type: none"> • RS 232 Serial (115200 bits per second) • Data bits:8; Stop bits: 1 • Parity: None • Flow Control: None |
| | USB | USB 2.0 port | USB Type-A | Future use |
| | Reset | USB 2.0 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 | 12V DC (5.5mm overall diameter/2.1mm center pin hole) 802.3at PoE - Full function 802.3af power – Reduced Function (No USB; Both 5GHz & 2.4GHz limited to 2x2 operation; Tx power reduced by 6dB for both radios) |
| Number of Radios | 2 access radios; one 2x2:2 2.4GHz and one 4x4:4 5GHz radio for simultaneous dual band access. 1 multi-function 2x2 radio for continuous WIPS and client connectivity tests |
| Max Clients Supported | 1024 - 512 clients per radio (dependent upon use cases) |
| MU-MIMO | 4X4 on 5GHz radio and 2X2 on 2.4GHz radio |
| Number of Spatial Streams | 4 for 5GHz radios, 2 for 2.4GHz radio, 2 for multipurpose radio |
| RF Transmit Power | 29dBm on 5GHz radio (max) and 26dBm on 2.4GHz radio (max); Actual power for Tx will depend on Country Regulatory Domain |
| 80+80MHz Non-Contiguous Channel Bonding | Yes |
| Bandwidth Agility | Yes |
| 3G/4G Macro and Small Cells Interference Mitigation | Yes |
| Frequency Bands | 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) |
| Dynamic Frequency Selection | Supported in compliance to all latest amendments from FCC, CE, IC, TELEC, KCC, NCC and ANZ regarding certifications. |

WiFi Specifications

| IEEE 802.11a/n/ac/ax | | | |
|-----------------------------|--|---|--|
| Frequency Band | Scanning | Transmission | |
| | All regions | USA & Canada (FCC/IC) | Europe (ETSI) |
| 5GHz Band | 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 / OFDMA | | |
| Peak Data Rates | Up to 2.4 Gbps | | |
| Antenna | Integrated modular high efficiency PIFA antenna x4 (peak gain: 3.9 dBi) | | |

| IEEE 802.11b/g/n/ax | | | |
|---------------------|---|-----------------------|-------------------|
| Frequency Band | Scanning | Transmission | |
| | All regions | USA & Canada (FCC/IC) | Europe (ETSI) |
| 2.4GHz Band | 2400 ~ 2483.5 MHz | 2400 ~ 2473.5 MHz | 2400 ~ 2483.5 MHz |
| Modulation Type | DSSS / OFDM / OFDMA | | |
| Peak Data Rates | Up to 0.6 Gbps | | |
| Antenna | Integrated modular high efficiency PIFA antenna x2 (peak gain: 3 dBi) | | |

Receive Sensitivity

5GHz

| Mode | Rate | Sensitivity (dBm) |
|------------|---------|-------------------|
| 802.11a | 6 Mbps | -93 |
| | 54 Mbps | -76 |
| 11n_HT20 | MCS 0 | -94 |
| | MCS 7 | -76 |
| 11n_HT40 | MCS 0 | -91 |
| | MCS 7 | -73 |
| 11ac_VHT20 | MCS 0 | -94 |
| | MCS 8 | -72 |
| 11ac_VHT40 | MCS 0 | -91 |
| | MCS 9 | -68 |
| 11ac_VHT80 | MCS 0 | -88 |
| | MCS 9 | -65 |
| 11ax_HE20 | MCS 0 | -94 |
| | MCS 11 | -65 |
| 11ax_HE40 | MCS 0 | -91 |
| | MCS 11 | -62 |
| 11ax_HE80 | MCS 0 | -88 |
| | MCS 11 | -59 |

2.4GHz

| Mode | Rate | Sensitivity (dBm) |
|-----------|---------|-------------------|
| 802.11b | 1 Mbps | -98 |
| | 11 Mbps | -90 |
| 802.11g | 6 Mbps | -93 |
| | 54 Mbps | -77 |
| 11n_HT20 | MCS 0 | -94 |
| | MCS 7 | -76 |
| 11n_HT40 | MCS 0 | -91 |
| | MCS 7 | -73 |
| 11ax_HE20 | MCS 0 | -94 |
| | MCS 11 | -65 |
| 11ax_HE40 | MCS 0 | -91 |
| | MCS 11 | -62 |

Aggregate Transmit Power

5GHz

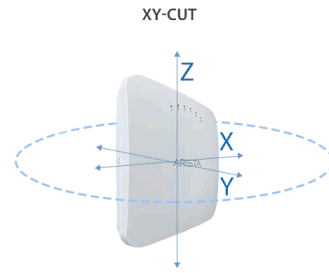
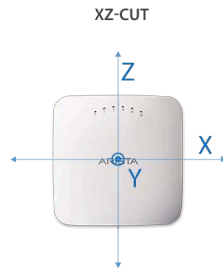
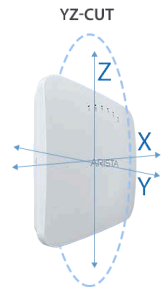
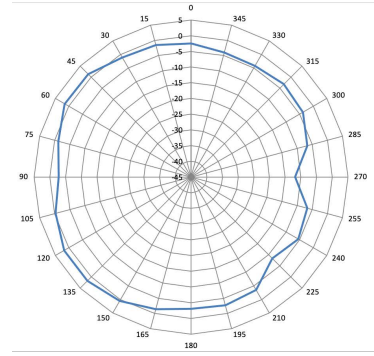
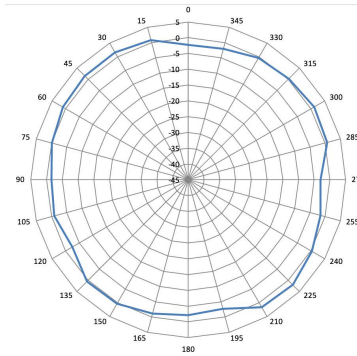
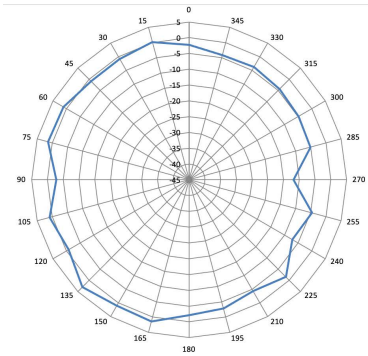
| Mode | Rate | Power (dBm) |
|----------------|--------------|-------------|
| 802.11a | 6 ~ 18 Mbps | 29 |
| | 24 ~ 54 Mbps | 29 |
| 802.11n_HT20 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| 802.11n_HT40 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| 802.11ac_VHT20 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| | MCS 8 ~ 9 | 29 |
| 802.11ac_VHT40 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| | MCS 8 ~ 9 | 28 |
| 802.11ac_VHT80 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| | MCS 8 ~ 9 | 28 |
| 802.11ax_HE20 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| | MCS 8 ~ 9 | 29 |
| | MCS 10- 11 | 28 |
| 802.11ax_HE40 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 29 |
| | MCS 8 ~ 9 | 28 |
| | MCS 10- 11 | 28 |
| 802.11ax_HE80 | MCS 0 ~ 4 | 29 |
| | MCS 5 ~ 7 | 28 |
| | MCS 8 ~ 9 | 28 |
| | MCS 10 ~ 11 | 28 |

2.4GHz

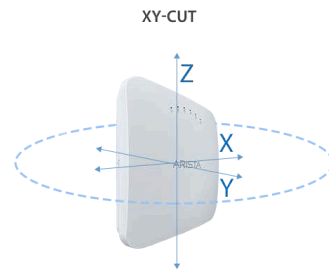
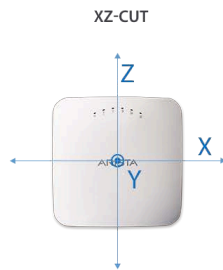
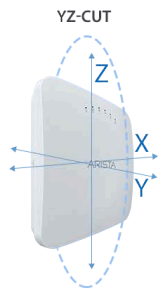
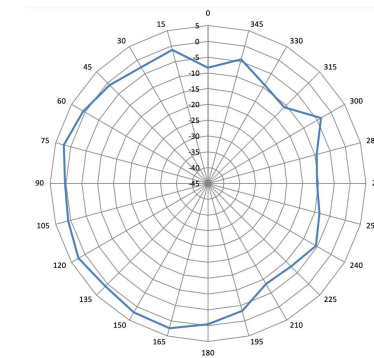
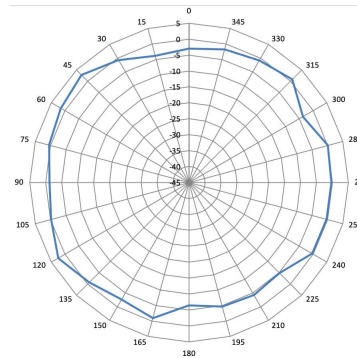
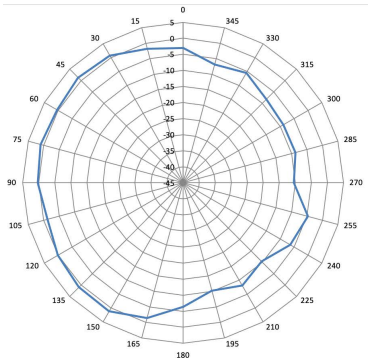
| Mode | Rate | Power (dBm) |
|---------------|--------------|-------------|
| 802.11b | 1 ~ 11 Mbps | 26 |
| 802.11g | 6 ~ 18 Mbps | 26 |
| | 24 ~ 54 Mbps | 26 |
| 802.11n_HT20 | MCS 0 ~ 4 | 26 |
| | MCS 5 ~ 7 | 26 |
| 802.11n_HT40 | MCS 0 ~ 4 | 26 |
| | MCS 5 ~ 7 | 26 |
| 802.11ax_HE20 | MCS 0 ~ 4 | 26 |
| | MCS 5 ~ 7 | 24 |
| | MCS 8 ~ 9 | 24 |
| 802.11ax_HE40 | MCS 10 ~ 11 | 24 |
| | MCS 0 ~ 4 | 26 |
| | MCS 5 ~ 7 | 24 |
| | MCS 8 ~ 9 | 23 |
| | MCS 10 ~ 11 | 23 |

Radiation Patterns

2.4GHz - Peak Gain: 3dB



5GHz - Peak Gain: 3.9dB



Regulatory Specifications

RF and Electromagnetic

| Country | Certification |
|---------|---|
| USA | FCC Part 15.247, 15.407 |
| Canada | IC |
| Europe | CE EN300.328, EN301.893, EN301 489-1, EN55032, EN62311 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

| Country | Certification |
|---------------------|----------------------|
| USA | UL 60950 UL 2043 |
| Canada | cUL 60950 |
| European Union (EU) | EN 60950, EN 62368-1 |
| Taiwan | CNS14336-1 |

Ordering Information

Access Point

| Part Number | Description |
|---------------|---|
| AP-C230 | C-230 4x4 tri radio 802.11ax (WiFi 6) access point with internal antennas |
| AP-C230-SS-5Y | C-230 AP with 5 years bundled Cognitive Cloud SW subscription |
| AP-C230-SS-3Y | C-230 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-W4 | Universal AC power supply for C-230, 12VDC, 3.3A |
| 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. |

Headquarters

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

Support

support-wifi@arista.com
408-547-5502
866-476-0000

Sales

sales@arista.com
408-547-5501
866-497-0000

www.arista.com