

## 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
- 2x2.5 Gbps Ethernet ports
- Support for UL/DL MU-MIMO
- Support for UL/DL OFDMA
- PoE++ support
- 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 realtime data transfer
- Versatile 3rd radio for WIPS, Scanning and Client Connectivity Tests
- Self-healing wireless mesh networking

### Aesthetic Design and High Performance

Arista C-250 is an enterprise-grade, 12 stream Wi-Fi 6 AP with dual concurrent 5 GHz and 2.4 GHz band radios supporting 8 stream 802.11a/n/ac/ax, 4 stream 802.11b/g/n/ax and data rates of up to 4.8 Gbps and 1.4 Gbps, respectively.

### C-250 Capabilities

C-250 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. With support for eight spatial streams in 5GHz, the C250 delivers truly unprecedented throughput and client capacity. C-250 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-250 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-250 comes with a versatile multipurpose 2x2:2 dual band 802.11ac third radio that provides:

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



Arista C-250

## Access

C-250 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/CBRS in commonly used TDD/FDD frequency bands

## Security

C-250 offers complete visibility and control of the wireless airspace ensuring network integrity while actively protecting users without manual intervention.


- C-250 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

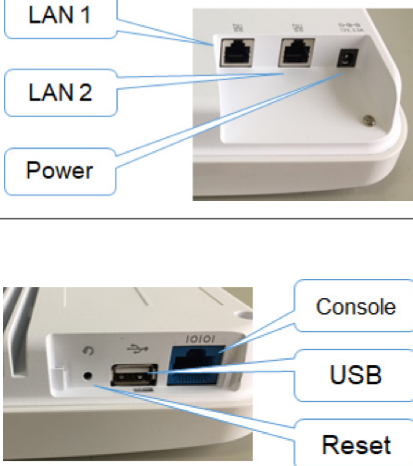
## Analytics

The C-250 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   | 230mm x 230mm x 49mm/9.1" X 9.1" X 1.9"  |
|   | Weight                | 1.390 Kg / 3 lb  |
|   | Operating Temperature | 0°C ~ +40°C (+32°F ~ +104°F)   |
|   | Storage Temperature   | -40°C ~ +70°C (-40°F ~ +158°F)   |
|   | MTBF                  | 191,367 hr @ 40°C<br>333,286 hr @ 25°C   |
|   | Humidity              | 0-95% non-condensing   |
|   | Power Consumption     | 34.4 W (max) / 14.0 W (min) / 28.6 W (avg)   |
|   | Chipset               | Qualcomm IPQ8078 2.2GHz quad core ARM processor with QCN5054 x2 and QCN5024 QCA9882 (multipurpose third radio) |
|   | Processor and RAM     | 1 GB RAM and 512 MB Flash  |
|   | Physical Security     | Kensington lock slot   |

|  | Port    | Description   | Connector Type                                   | Speed/Protocol  |
|---|---------|---|--|---|
|   | Power   | 12V DC 3.3 A  | 5.5 mm overall diameter / 2.1 mm center pin hole | N/A   |
|   | LAN1    | 2.5 GbE, PoE++ compliant, MACsec capable*                       | RJ-45  | 100M/1G/2.5G Ethernet<br>Recommended cabling - CAT6   |
|   | LAN2    | 2.5 GbE, PoE++ compliant, MACsec capable*                       | RJ-45  | 100M/1G/2.5G Ethernet<br>Recommended cabling - CAT6   |
|   | Console | Establish 'config shell' terminal session via serial connection | RJ-45  | <ul style="list-style-type: none"> <li>RS 232 Serial (115200 bits per second)</li> <li>Data bits:8; Stop bits: 1</li> <li>Parity: None</li> <li>Flow Control: None</li> </ul> |
|   | USB     | USB 2.0 port  | USB Type-A                                       | <ul style="list-style-type: none"> <li>Future use</li> </ul>  |
|   | 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  | 12V DC (5.5mm overall diameter/2.1mm center pin hole)<br>PoE++ power <ul style="list-style-type: none"> <li>Full function</li> </ul> PoE+ <ul style="list-style-type: none"> <li>USB off</li> <li>Max EIRP<sup>1</sup> of 28.5 dBm at 5GHz, 25.5 dBm at 2.4GHz</li> </ul> |
| Number of Radios   | 2 access radios; one 4x4:4 2.4GHz and one 8x8:8 5GHz radio for simultaneous dual band access.<br>1 multi-function 2x2 radio for continuous WIPS and client connectivity tests   |
| Max Clients Supported  | 768 (256 clients on 2.4 GHz radio, 512 clients on 5 GHz radio)  |
| MU-MIMO  | 8X8 on 5GHz radio and 4X4 on 2.4GHz radio   |
| Number of Spatial Streams  | 8 for 5GHz radios, 4 for 2.4 GHz radio, 2 for multipurpose radio  |
| Maximum EIRP   | 32.5dBm on 5GHz radio (max) and 28.5dBm on 2.4GHz radio (max) <sup>1</sup>  |
| 80+80MHz Non-Contiguous Channel Bonding                                  | No  |
| Bandwidth Agility  | Yes   |
| Small Cells Interference Mitigation (pico-cells, femtocells, microcells) | Yes   |
| Frequency Bands <sup>2</sup>   | 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, CB, TELEC, KCC regarding certifications.   |

<sup>1</sup> Max EIRP will be restricted to Country/Regulatory domain limits

<sup>2</sup> The frequency ranges are restricted to Country/Regulatory domain limits

## 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<br>5.15 ~ 5.25 GHz<br>5.25 ~ 5.35 GHz<br>5.47~ 5.725 GHz<br>5.725~ 5.825 GHz | 5.15 ~ 5.25 GHz<br>5.25 ~ 5.35 GHz<br>5.725~ 5.825 GHz | 5.15 ~ 5.25 GHz<br>5.25 ~ 5.35 GHz<br>5.47~ 5.725 GHz |
| Dynamic Frequency Selection | DFS and DFS2   |  |   |
| Modulation Type             | OFDM / OFDMA   |  |   |
| Peak Data Rates             | Up to 4.8 Gbps   |  |   |
| Antenna                     | Integrated modular high efficiency PIFA antenna x8 (peak gain: 6.1 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 1.1Gbps   |                       |                   |
| Antenna             | Integrated modular high efficiency PIFA antenna x4 (peak gain:4.92 dBi) |                       |                   |

## Receive Sensitivity

### 5GHz

| Mode       | Rate    | Sensitivity (dBm) |
|------------|---------|-------------------|
| 802.11a    | 6 Mbps  | -92               |
|            | 54 MBps | -75               |
| 11n_HT20   | MCS 0   | -93               |
|            | MCS 7   | -75               |
| 11n_HT40   | MCS 0   | -90               |
|            | MCS 7   | -73               |
| 11ac_VHT20 | MCS 0   | -95               |
|            | MCS 8   | -70               |
| 11ac_VHT40 | MCS 0   | -90               |
|            | MCS 9   | -68               |
| 11ac_VHT80 | MCS 0   | -87               |
|            | MCS 9   | -63               |
| 11ax_HE20  | MCS 0   | -93               |
|            | MCS 11  | -64               |
| 11ax_HE40  | MCS 0   | -91               |
|            | MCS 11  | -62               |
| 11ax_HE80  | MCS 0   | -87               |
|            | 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   | -95               |
|            | MCS 7   | -76               |
| 11n_HT40   | MCS 0   | -91               |
|            | MCS 7   | -73               |
| 11ac_VHT20 | MCS 0   | -95               |
|            | MCS 8   | -72               |
| 11ac_VHT40 | MCS 0   | -91               |
|            | MCS 9   | -70               |
| 11ax_HE20  | MCS 0   | -94               |
|            | MCS 11  | -65               |
| 11ax_HE40  | MCS 0   | -91               |
|            | MCS 11  | -63               |

## Maximum EIRP

### 5GHz

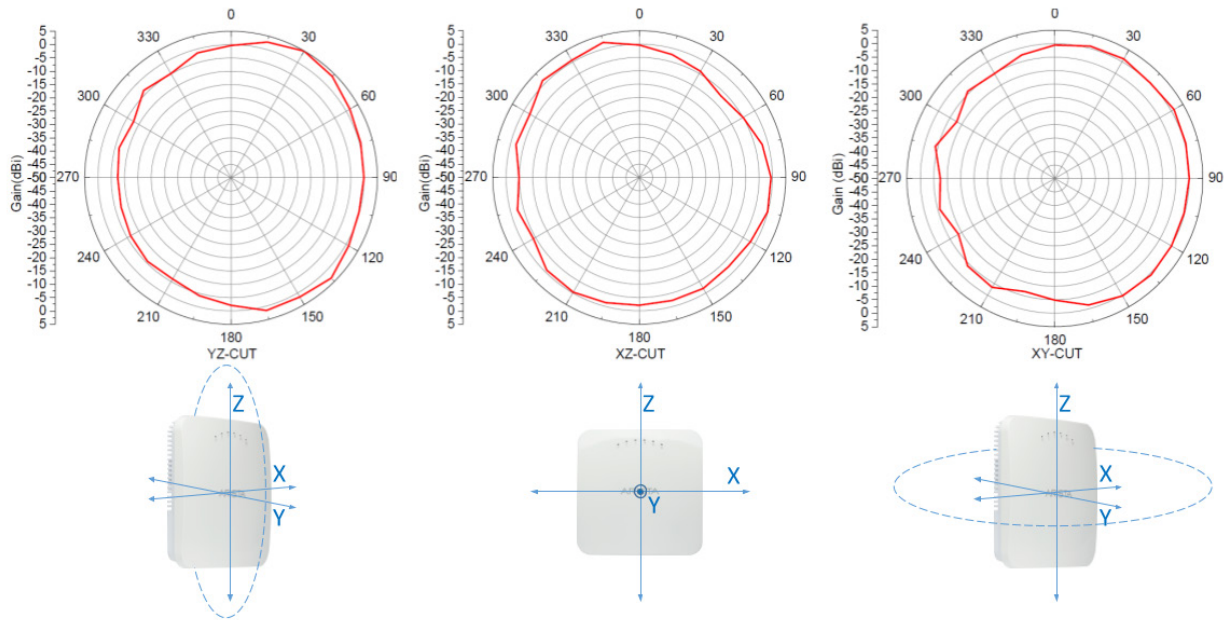
| Mode           | Rate         | Power (dBm) |
|----------------|--------------|-------------|
| 802.11a        | 6 ~ 18 Mbps  | 32.5        |
|                | 24 ~ 54 Mbps | 31.5        |
| 802.11n_HT20   | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 31.5        |
| 802.11n_VHT40  | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 30.5        |
| 802.11ac_VHT20 | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 31.5        |
|                | MCS 8 ~ 9    | 30.5        |
| 802.11ac_VHT40 | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 30.5        |
|                | MCS 8 ~ 9    | 29.5        |
| 802.11ac_VHT80 | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 29.5        |
|                | MCS 8 ~ 9    | 28.5        |
| 802.11ax_HE20  | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 31.5        |
|                | MCS 8 ~ 9    | 30.5        |
|                | MCS 10- 11   | 27.5        |
| 802.11ax_HE40  | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 30.5        |
|                | MCS 8 ~ 9    | 28.5        |
|                | MCS 10- 11   | 27.5        |
| 802.11ax_HE80  | MCS 0 ~ 4    | 32.5        |
|                | MCS 5 ~ 7    | 29.5        |
|                | MCS 8 ~ 9    | 28.5        |
|                | MCS 10 ~ 11  | 25.5        |

### 2.4GHz

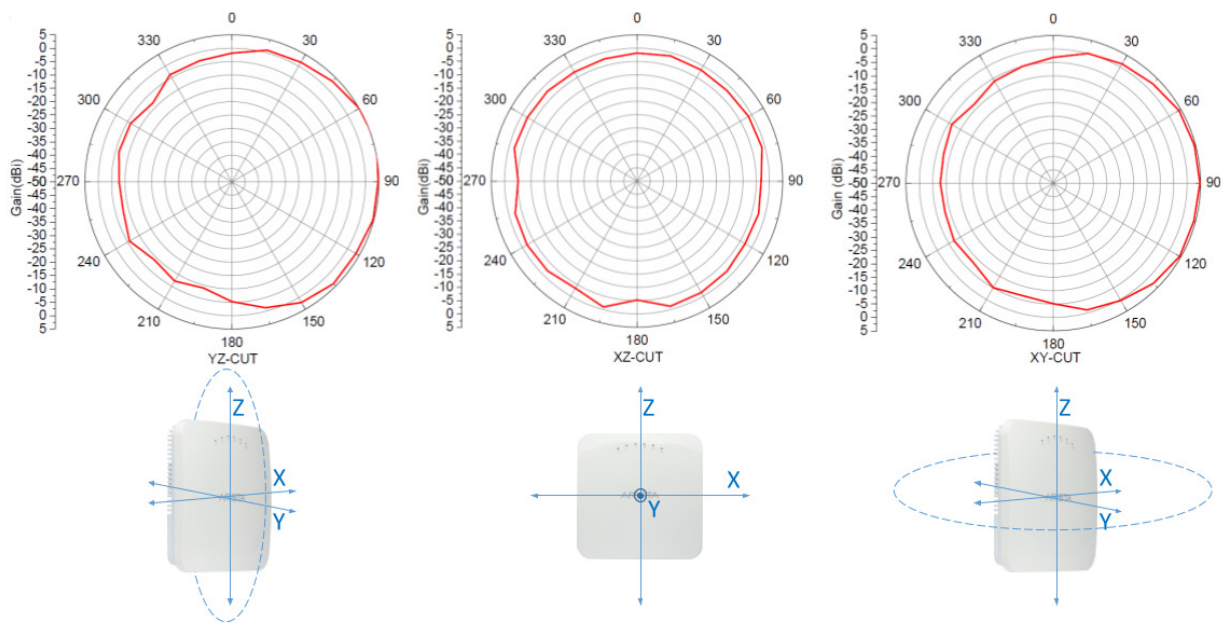
| Mode          | Rate         | Power (dBm) |
|---------------|--------------|-------------|
| 802.11b       | 1 ~ 11 Mbps  | 28.5        |
| 802.11g       | 6 ~ 18 Mbps  | 28.5        |
|               | 24 ~ 54 Mbps | 26.5        |
| 802.11n_HT20  | MCS 0 ~ 4    | 28.5        |
|               | MCS 5 ~ 7    | 26.5        |
| 802.11n_HT40  | MCS 0 ~ 4    | 27.5        |
|               | MCS 5 ~ 7    | 25.5        |
| 802.11ax_HE20 | MCS 0 ~ 4    | 28.5        |
|               | MCS 5 ~ 7    | 26.5        |
|               | MCS 8 ~ 9    | 25.5        |
|               | MCS 10 ~ 11  | 21.5        |
| 802.11ax_HE40 | MCS 0 ~ 4    | 27.5        |
|               | MCS 5 ~ 7    | 25.5        |
|               | MCS 8 ~ 9    | 25.5        |
|               | MCS 10 ~ 11  | 22.5        |

## Radiation Patterns

### 2.4GHz - Peak Gain: 4.92dBi



### 5GHz - Peak Gain: 6.1dBi



## Regulatory Specifications

### RF and Electromagnetic

| Country | Certification  |
|---------|--|
| USA     | FCC Part 15.247, 15.407  |
| Canada  | IC   |
| Europe  | CE EN300.328, EN301.893<br>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, RoHS   |



## Ordering Information

### Access Point

| Part Number   | Description  |
|---------------|--|
| AP-C250-SS-5Y | C-250 AP with 5 years bundled Cognitive Cloud SW subscription              |
| AP-C250-SS-3Y | C-250 AP with 3 years bundled Cognitive Cloud SW subscription              |
| AP-C250       | C-250 8x8 tri radio 802.11ax (Wi-Fi 6) access point with internal antennas |

## Mounting Options

| Part Number      | Description   |
|------------------|---|
| MNT-AP-24MM      | AP mount kit for Prelude (24mm, 15/16") T-grid rails            |
| MNT-AP-15MM      | AP mount kit for Suprafine (15mm, 9/16") T-grid rails           |
| MNT-AP-INTSIL    | AP mount kit for Interlude and Silhouette T-grid rails          |
| MNT-AP-FLAT-14CM | AP mount kit for flat surface installation (wall, hard ceiling) |

## Power

| Part Number | Description                                      |
|-------------|--|
| PWR-AP-W4   | Universal AC power supply for C-250, 12VDC, 3.3A |

## Headquarters

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