

# C260-S Outdoor Dual-Band Wi-Fi 6 Access Point

Unrivalled Cost-Performance with Cutting-Edge Antenna Technology



The Altai C260-S is an affordable Wi-Fi 6 access point that delivers excellent performance and reliable wireless connectivity for indoor and outdoor use. Equipped with a compact and efficient antenna design inherited from the highly acclaimed C1n and C1an models, the C260-S takes it a step further by minimizing its size while maximizing antenna gain for both 2.4GHz and 5GHz radios. This innovative design ensures extensive coverage and a robust wireless experience in a wide range of environments.

With its affordable price point, the C260-S offers an unbeatable high-performance price ratio, making it the ideal choice for those seeking exceptional performance without compromising on size or budget.



## Key Features and Benefits



### Enhanced Capacity with Wi-Fi 6 Support

Harnesses Wi-Fi 6 features such as OFDMA and bi-directional multi-user MIMO to significantly increase capacity on both 2.4 GHz and 5 GHz radios, ensuring superior performance.

Total Data Rate	2.976 Gbps (2.4 GHz: 574 Mbps + 5 GHz: 2402 Mbps)
Max. Concurrent Users	256 (128 for both radios)*



### Enhanced Antenna Performance in a Compact Design

The patented antenna design maximizes antenna gain for both 2.4GHz and 5GHz radios while maintaining the smallest form factor, enabling the C260-S to deliver optimal RF performance without compromise.



### Super Dual-Band Coverage

Max. LOS Distance for Smartphones	600 m (2.4 GHz)*
	600 m (5 GHz)*



### Power over Ethernet (PoE) Support

With 802.3af standard PoE, the C260-S can be easily powered up by any PoE/PoE+ switches without the need for additional adapters.



### Weatherproof and Dustproof Housing

Built to withstand outdoor environments, it is well-suited for various deployments from smart cities and ports to construction sites.



### Secure Wireless Protection

Supports WPA3 for secure Wi-Fi access, offering advanced encryption protocols to safeguard data transmission.



### Ease of Deployment

Easily managed through the Insights cloud platform, enabling quick and efficient network rollout regardless of the network size.

\* The actual number of concurrent users, distance and performance vary depending on site conditions, device configurations and client capabilities.

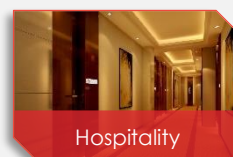
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## Use Cases:

- ❧ **Cost-Effective Outdoor Wi-Fi Hotspots**  
When combined with Insights, the C260-S provides a powerful advertisement engine and various login options for guest Wi-Fi access, including email sign-up and click-through.
- ❧ **City-Wide Wireless Infrastructure**  
The C260-S complements Altai Super WiFi Base Stations for city-wide wireless infrastructure deployments. It enables wireless broadband services, Smart City and IoT applications.
- ❧ **Medium to High-Density Environments**  
With Wi-Fi 6 support and a built-in directional antenna, the C260-S is an excellent choice for medium to high-density environments such as stadiums and ad-hoc events.



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## Wireless Interfaces

### 2.4 GHz (2x2:2) Radio

• Operating Mode	AP/STA #
• Standard	IEEE 802.11b/g/n/ax
• Maximum Data Rate	574 Mbps
• Operating Frequency	2.400 – 2.484 GHz (Ch 1-13)
• Channel Bandwidth	20/40 MHz
• EIRP	100 mW (Max.)
• Modulation	CCK, BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
• Receiver Sensitivity (Typical, per chain)	
802.11b 1 Mbps	-96 dBm; 11 Mbps -87 dBm
802.11g 6 Mbps	-93 dBm; 54 Mbps -75 dBm
802.11n HT20, MCS0	-92 dBm; HT20, MCS7 -73 dBm
HT40, MCS0	-89 dBm; HT40, MCS7 -70 dBm
802.11ax HE20, MCS0	-92 dBm; HE20, MCS11 -64 dBm
HE40, MCS0	-89 dBm; HE40, MCS11 -61 dBm

### 5 GHz (2x2:2) Radio

• Operating Mode	AP/STA #
• Standard	IEEE 802.11a/n/ac/ax
• Maximum Data Rate	2402 Mbps
• Operating Frequency	5.150 – 5.250 GHz (Ch 36-48) 5.250 – 5.350 GHz (Ch 52-64) 5.470 – 5.725 GHz (Ch 100-140) 5.725 – 5.850 GHz (Ch 149-165)
• Channel Bandwidth	20/40/80/160 MHz
• EIRP	200 mW (Max.) for 5.150 – 5.350 GHz 1000 mW (Max.) for 5.470 – 5.850 GHz
• Modulation	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
• Receiver Sensitivity (Typical, per chain)	
802.11a 6 Mbps	-92 dBm; 54 Mbps -74 dBm
802.11n HT20, MCS0	-90 dBm; HT20, MCS7 -73 dBm
HT40, MCS0	-87 dBm; HT40, MCS7 -70 dBm
802.11ac VHT20, MCS0	-91 dBm; VHT20, MCS8 -67 dBm
VHT40, MCS0	-88 dBm; VHT40, MCS9 -63 dBm
VHT80, MCS0	-84 dBm; VHT80, MCS9 -60 dBm
VHT160, MCS0	-81 dBm; VHT160, MCS9 -56 dBm
802.11ax HE20, MCS0	-91 dBm; HE20, MCS11 -62 dBm
HE40, MCS0	-89 dBm; HE40, MCS11 -59 dBm
HE80, MCS0	-86 dBm; HE80, MCS11 -56 dBm
HE160, MCS0	-83 dBm; HE160, MCS11 -53 dBm

### For both 2.4 GHz and 5 GHz Radios

- 16 SSID (8 SSID per Radio)
- Client Association Control per SSID by SNR #
- Bandwidth Control Per SSID/Client #
- Auto Channel Selection

## Antennas

### 2.4 GHz Antenna

• Built-in Antenna	9 dBi Sector
• Polarization	2x2 MIMO ±45° Polarized
• Horizontal Beamwidth	80° (-3 dB)
• Vertical Beamwidth	30° (-3 dB)
• VSWR	2 (Max.)
• Front-to-Back Ratio	≥ 20 dB

### 5 GHz Antenna

• Built-in Antenna	13 dBi Sector
• Polarization	2x2 MIMO ±45° Polarized
• Horizontal Beamwidth	60° (-3 dB)
• Vertical Beamwidth	15° (-3 dB)
• VSWR	2 (Max.)
• Front-to-Back Ratio	≥ 20 dB

## Networking

- Switch/Gateway Mode
- NAT
- DHCP Client/Server
- PPPoE Client #
- VLAN per SSID
- IGMP Snooping #

## Security

- Authentication – Open, Shared key, WPA/WPA2/WPA3 (Personal/Enterprise), 802.1X (EAP-PEAP/TLS/TLS/SIM/AKA)
- Encryption – WEP, TKIP, AES
- 802.11w (Management Frame Protection)
- Inter/Intra-SSID Client Isolation
- MAC-based Access Control (White/Black List)
- RADIUS
- External Captive Portal #
- Trusted IP Management Access

## Management

- Management Platforms: Standalone, Insights, AltaiCare Private Cloud #, AltaiCare On-Premises #, and AltaiGate #
- Syslog

## Physical Specifications

• Dimension	250 x 130 x 52 mm
• Weight	0.68 kg (Without Mounting Kit)
• Mounting	Pole or Wall-mounted
• Network Interface	1 x 10/100/1000Mbps RJ-45 Port (PoE In) 1 x 10/100/1000Mbps RJ-45 Port
• Indicator	1 x Power Status 2 x Ethernet Interface Status 2 x Radio Interface Status 3 x Received Signal Strength
• Reset Button	Onboard

## Power

• Power Supply	802.3af PoE PD, or Passive 48 – 56 V PoE PD 12 VDC Jack, Ø5.5 x Ø2.1 x 10 mm
• Power Consumption	15 W (Max.)

† The transmit power and operating frequency may vary according to country regulations.

# Will be available in the future.

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## Environmental Specifications

- Operating Temperature -20 °C to +55 °C (Ambient)
- Storage Temperature -40 °C to +70 °C
- Humidity 5% – 95% (Non-Condensing)
- Lightning Protection EN 61000-4-5
- Wind Loading Up to 216 km/h (134 mph)
- Weatherproof IP55 Compliant

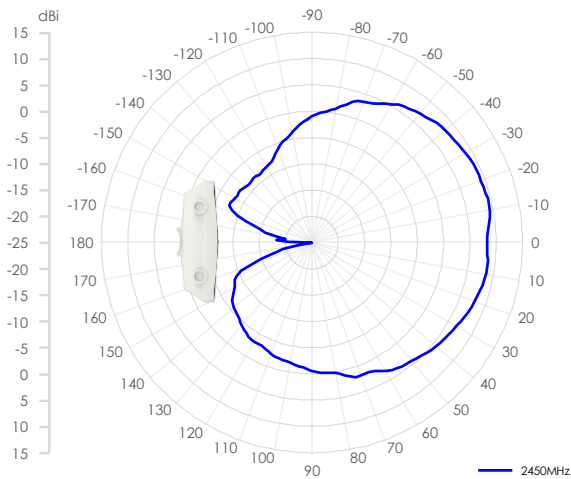
## Certifications

- FCC/CE/Others
- RoHS Compliance

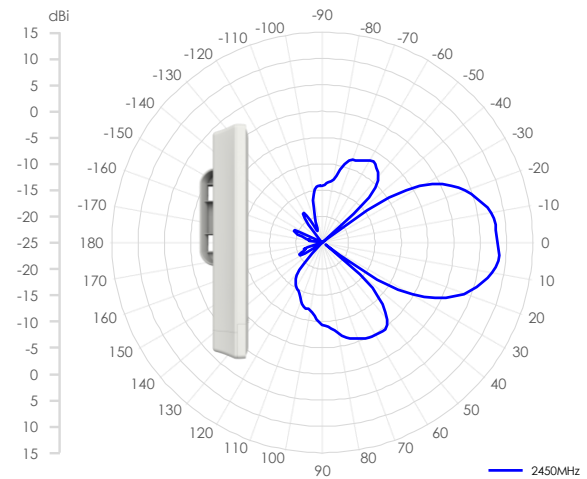
## Warranty

- 1-Year Limited Hardware Warranty

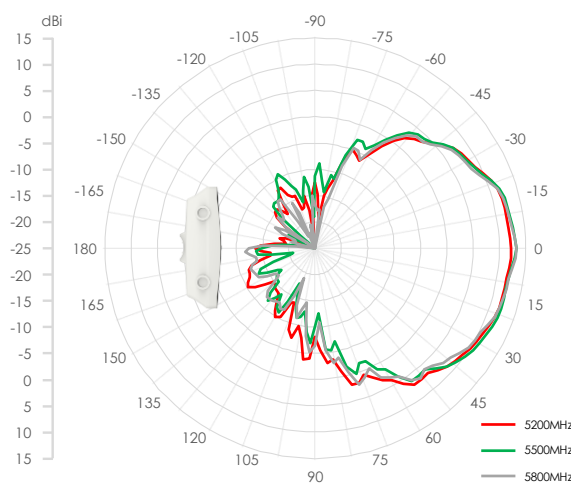
## Radiation Pattern



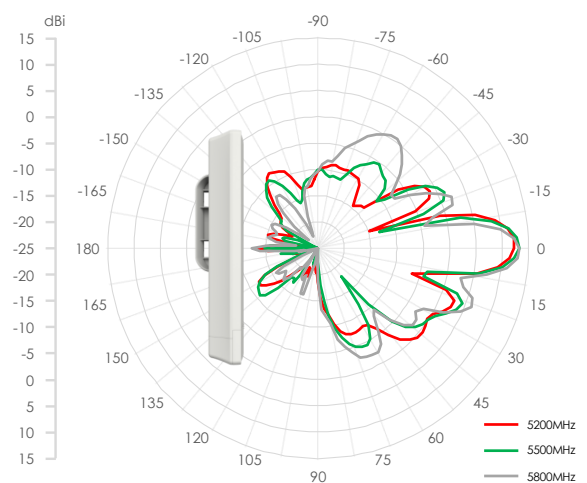
2.4 GHz Azimuth Plane



2.4 GHz Elevation Plane



5 GHz Azimuth Plane



5 GHz Elevation Plane

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Product Ordering Information	
<b>Standard Package</b>	
Part No.: SD.C260-3242-000	<ul style="list-style-type: none"><li>• C260-S Outdoor Dual-band 2x2 Wi-Fi 6 Access Point with integrated sector antenna (Model No.: C260-S)</li><li>• Standard wall/pole mounting Kit</li></ul>
<b>Optional Accessories</b>	
Part No.: SD.PE-0001-EP	<ul style="list-style-type: none"><li>• Indoor 54 VDC 1 gigabit passive PoE injector</li></ul>
<b>Warranty Extension</b>	
Part No.: SV.HW-C2602-00	<ul style="list-style-type: none"><li>• 2nd Year Extended H/W Warranty for C260 Series</li></ul>
Part No.: SV.HW-C2603-00	<ul style="list-style-type: none"><li>• 3rd Year Extended H/W Warranty for C260 Series</li></ul>
Part No.: SV.HW-C2604-00	<ul style="list-style-type: none"><li>• 4th Year Extended H/W Warranty for C260 Series</li></ul>
Part No.: SV.HW-C2605-00	<ul style="list-style-type: none"><li>• 5th Year Extended H/W Warranty for C260 Series</li></ul>
<b>Contact Us</b>	
<ul style="list-style-type: none"><li>• Email: <a href="mailto:sales@altaitechnologies.com">sales@altaitechnologies.com</a> or <a href="mailto:info@altaitechnologies.com">info@altaitechnologies.com</a></li></ul>	

CX260S-PB-240829

The information contained herein is subject to change without prior notice.