

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.



### 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)*



#### Compact Antenna Design

Maximizes antenna gain for both 2.4GHz and 5GHz radios while maintaining the smallest form factor, delivering 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.



### Use Cases:

») **Cost-Effective Outdoor Wi-Fi Hotspots**

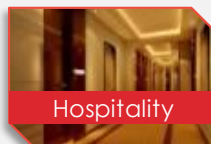
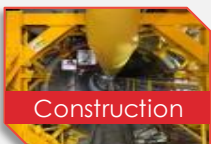
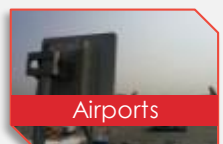
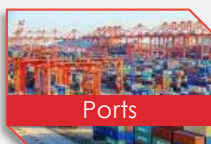
When combined with Insights, the C260-S provides a powerful advertisement engine and various login options for guest Wi-Fi access, including email sign-up and click-through.

») **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.



## Wireless Interfaces

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

• Operating Mode	AP		
• 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		
• Transmit Power †	22 dBm (Max.), 19 dBm (Per Chain)		
• 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		
• 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		
• Transmit Power †	22 dBm (Max.), 19 dBm (Per Chain)		
• 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/TTLS/SIM/AKA)
- Encryption – WEP, TKIP, AES
- 802.11w (Management Frame Protection)
- Inter/Intra-SSID Client Isolation
- MAC-based Access Control (White/Black List)
- RADIUS
- Captive Portal #
- Trusted IP Management Access

## Management

- Management Platforms: Standalone, Insights
- 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, or 12 VDC Jack, Ø5.5 x Ø2.1 x 10 mm
• Power Consumption	15 W (Max.)

## 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

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

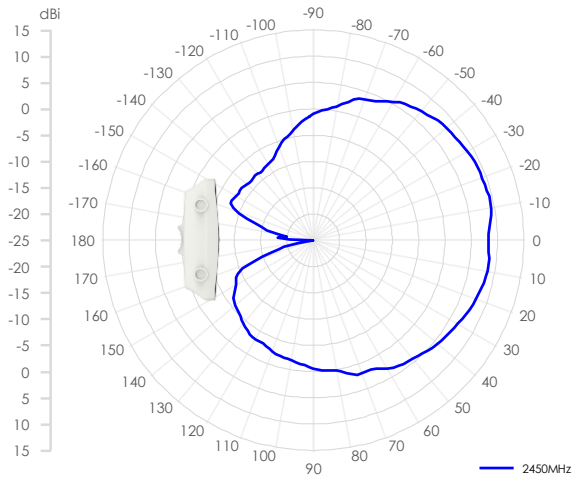
‡ Power accessories including PoE injectors and AC-to-DC adapters are not included.

# Will be available in the future.

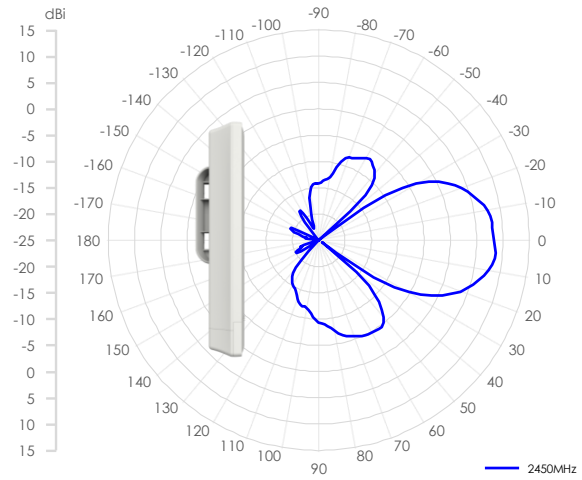
**Certifications**

- FCC/CE/Others
- RoHS Compliance

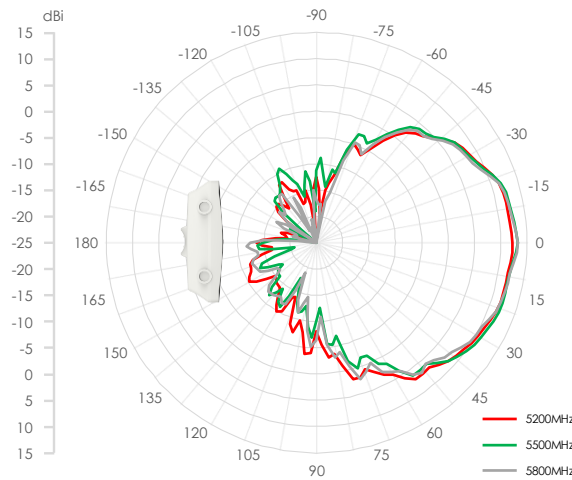
**Radiation Pattern**



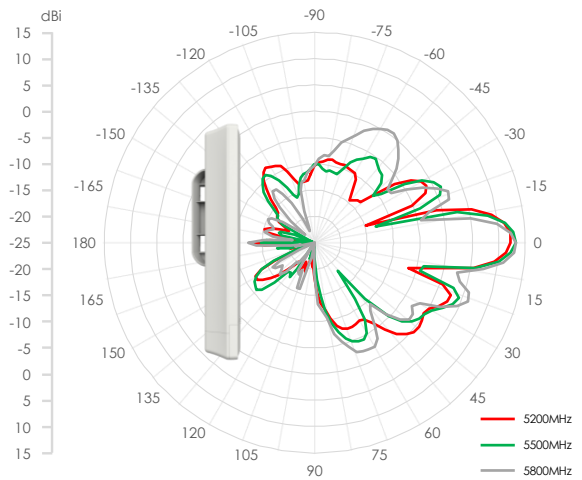
2.4 GHz Azimuth Plane



2.4 GHz Elevation Plane



5 GHz Azimuth Plane



5 GHz Elevation Plane

Product Ordering Information	
Standard Package	
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>
Contact Us	
<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-231214

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