Altai C260-S Outdoor Dual-Band Wi-Fi 6 Access Point
Unrivalled Cost-Performance with High-Gain Directional Antenna in the Class

ALTAI
Super WiFi

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.

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Centralized WLAN Management System

INSIGHTS
ALTAI

Wi-Fi Access

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.
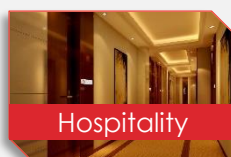

Smart Cities

Telecom & ISP

Healthcare

Retail & SMB

Hospitality

Education

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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
- Transmit Power † — 26 dBm (Max.), 23 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/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
- Transmit Power † — 26 dBm (Max.), 23 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
- 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
- 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)
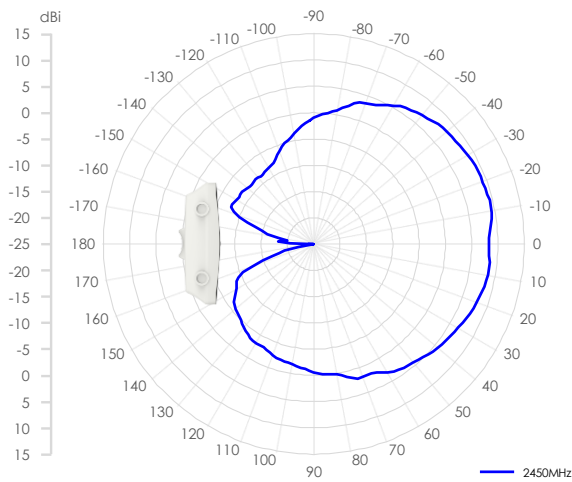- Weatherproof — IP55 Compliant

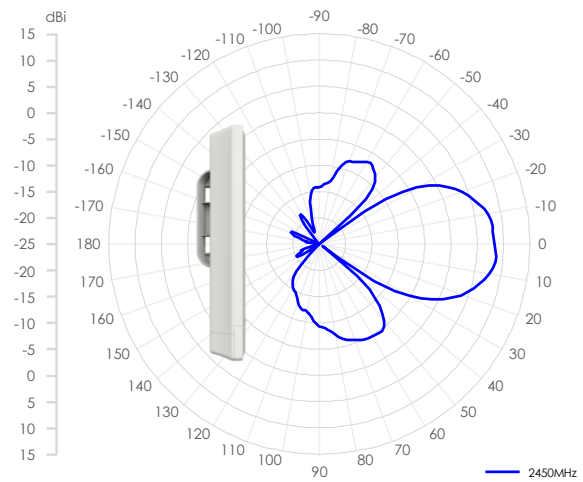## Certifications

- FCC/CE/Others
- RoHS Compliance

† The transmit power and operating frequency may vary according to country regulations.
 # Will be available in the future.

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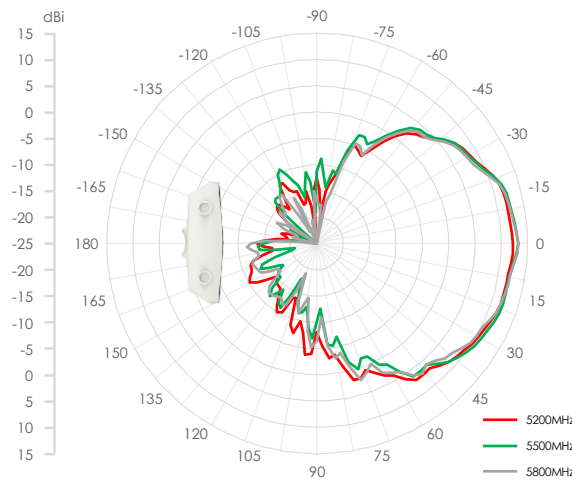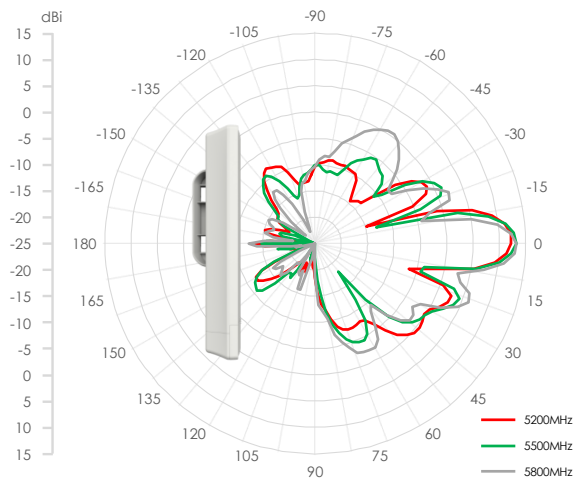
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Radiation Pattern

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	• C260-S Outdoor Dual-band 2x2 Wi-Fi 6 Access Point with integrated sector antenna (Model No.: C260-S) • Standard wall/pole mounting Kit
Optional Accessories	
Part No.: SD.PE-0001-EP	• Indoor 54 VDC 1 gigabit passive PoE injector
Contact Us	
• Email: sales@altaitechnologies.com or info@altaitechnologies.com	

CX260S-PB-240413

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