C260-S Outdoor Dual-Band Wi-Fi 6 Access Point
Unrivalled Cost-Performance with Cutting-Edge Antenna Technology

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.

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.
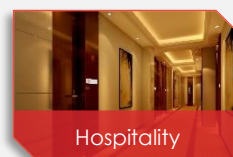
Centralized WLAN Management System

AltaiCare　　INSIGHTS ALTAI　　AltaiGate

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.

Rural & Satellite Broadband

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
  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)
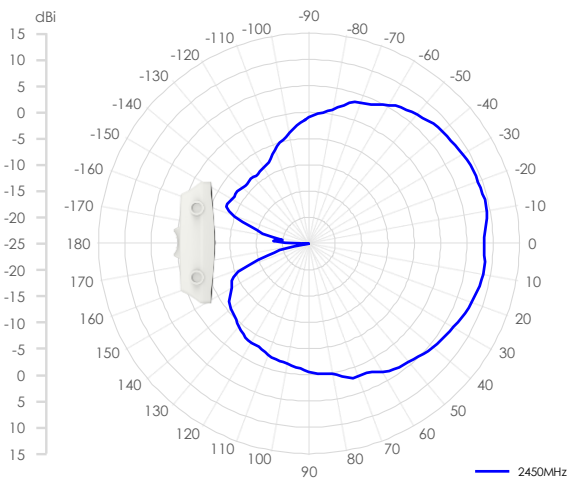- Weatherproof — IP55 Compliant

Certifications
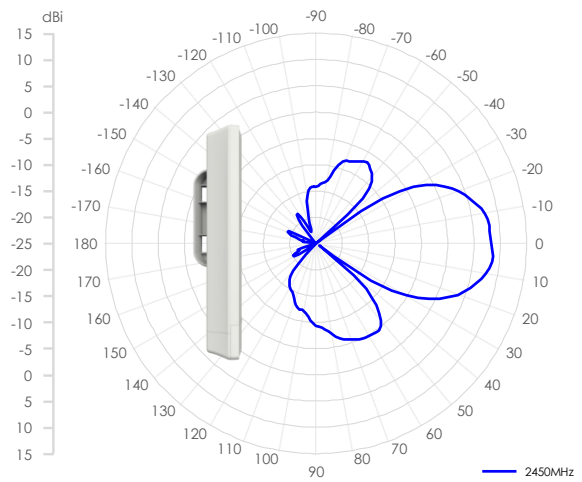
- FCC/CE/Others
- RoHS Compliance

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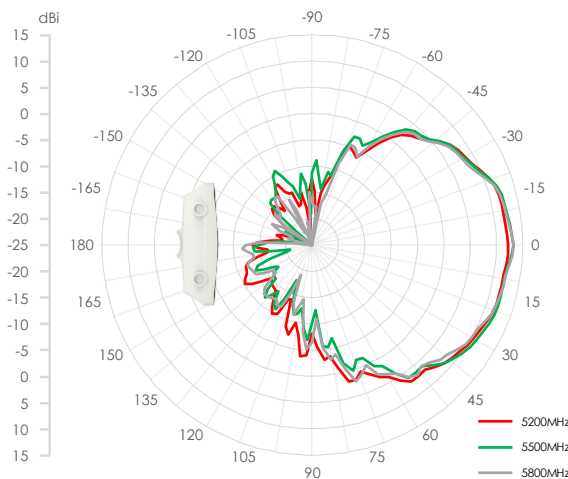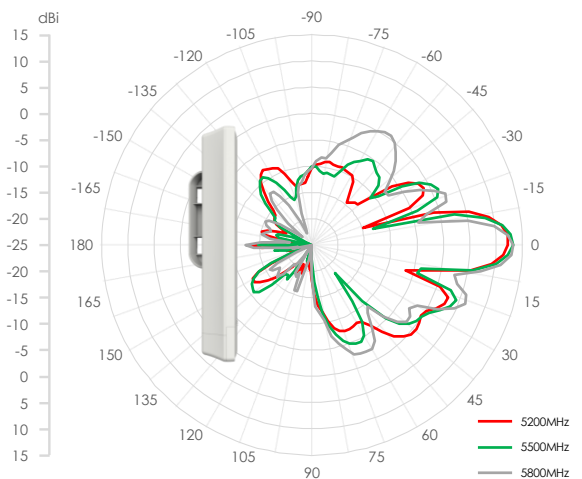*# Will be available in the future.*

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-240523

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