

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)*
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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

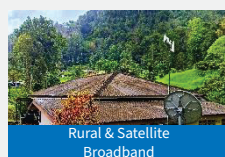
When combined with Insights, the C260-S provides a powerful advertisement engine and various login options for guest Wi-Fi access, including email sign-up and click-through.

City-Wide Wireless Infrastructure

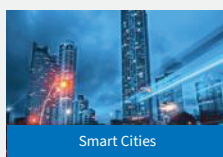
The C260-S complements Altai Super WiFi Base Stations for city-wide wireless infrastructure deployments. It enables wireless broadband services, Smart City and IoT applications.

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 highdensity environments such as stadiums and ad-hoc events.



Rural & Satellite
Broadband



Smart Cities



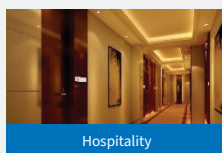
Telecom & ISP



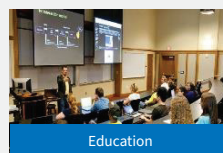
Healthcare



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)
• 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
• Transmit Power †	26 dBm (Max.), 23 dBm (Per Chain)
• 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/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

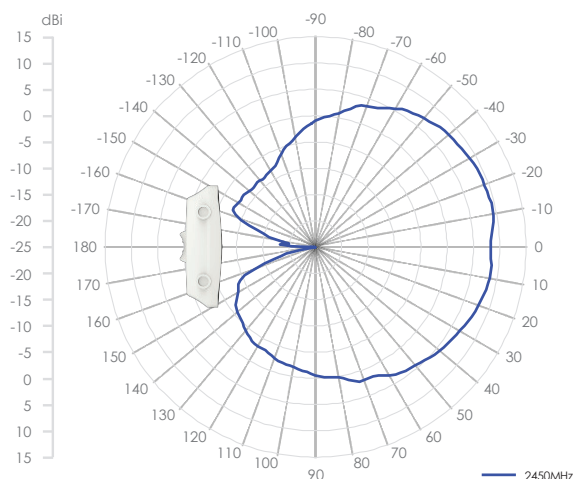
- FCC/CE/Others
- RoHS Compliance

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

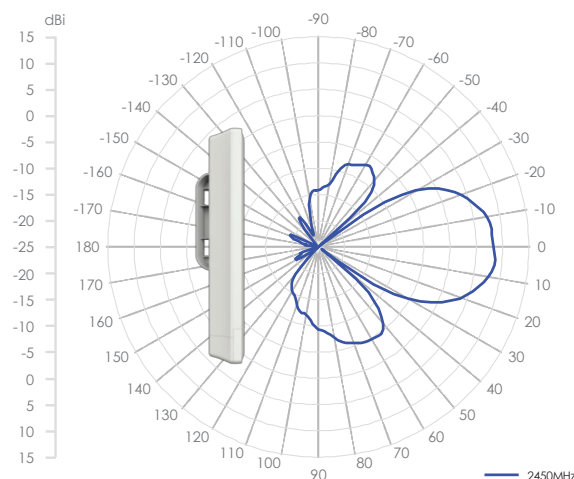
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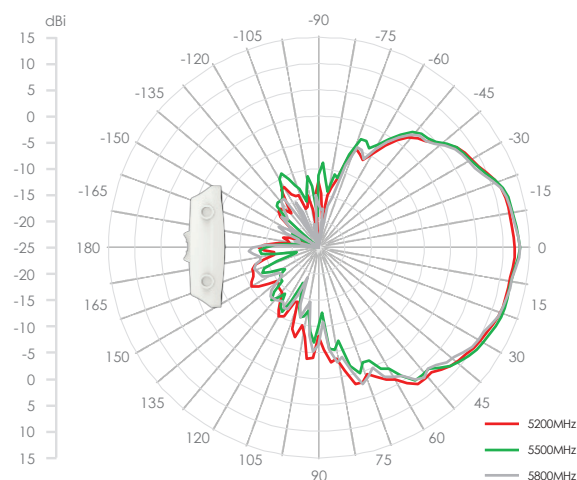
Radiation Pattern



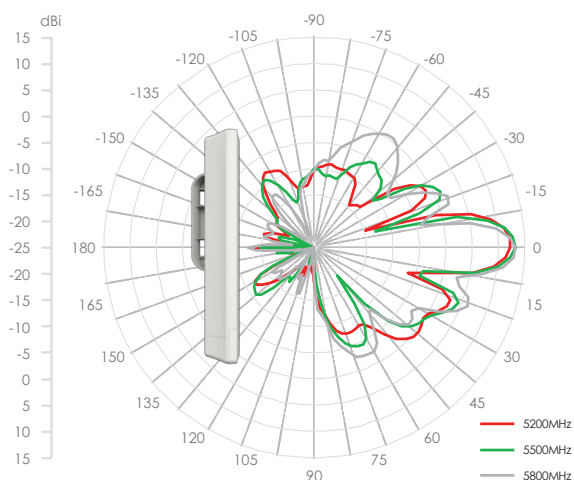
2.4 GHz Azimuth Plane



2.4 GHz Elevation Plane



5 GHz Azimuth Plane



5 GHz Elevation Plane

Product Ordering Information

Standard Package

Part No.: SD.C260-3242-000	<ul style="list-style-type: none"> C260-S Outdoor Dual-band 2x2 Wi-Fi 6 Access Point with integrated sector antenna (Model No.: C260-S) Standard wall/pole mounting Kit
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Optional Accessories

Part No.: SD.PE-0001-EP	<ul style="list-style-type: none"> Indoor 54 VDC 1 gigabit passive PoE injector
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