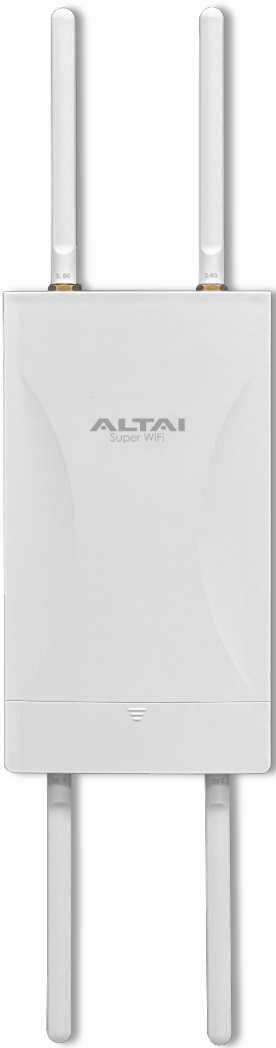


The Altai C260-X is a budget-friendly Wi-Fi 6 access point that delivers excellent performance and reliable wireless connectivity for indoor and outdoor use. It supports external antennas that offer the flexibility to attach a wide range of antenna types, catering to diverse coverage requirements and environmental conditions. This adaptability ensures optimal signal strength and extended range. With its affordable price point, the C260-X delivers an unbeatable high-performance price ratio, making it the ideal choice for those seeking exceptional performance, coverage flexibility, and budget-friendly options.



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)



Super Dual-Band Coverage

	*Expected Line-of-Sight Distance between iC260-X AP and Smartphone	
	2.4 GHz	5 GHz
Open Area	300 m	200 m
Rural	230 m	140 m
Suburban	130 m	70 m
Urban	70 m	30 m



Power over Ethernet (PoE) Support

With 802.3af standard PoE, the C260-X 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 either cloud or on-premises WLAN controllers, including AltaiGate, AltaiCare cloud/virtual appliance, and 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.
† With external 2.4 GHz 4 dBi and 5 GHz 4 dBi omni antennas



Use Cases:

» Cost-Effective Outdoor Wi-Fi Hotspots

When combined with Insights, the C260-X 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

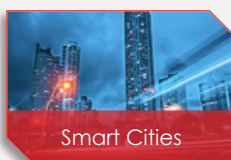
The C260-X complements Altai Super WiFi Base Stations for city-wide wireless infrastructure deployments. It enables wireless broadband services, Smart City and IoT applications.

» Medium to High-Density Environments

With Wi-Fi 6 support, the C260-X is an excellent choice for medium to high-density environments such as stadiums and ad-hoc events.



Rural & Satellite
Broadband



Smart Cities



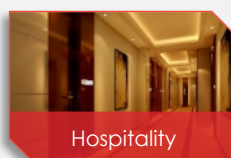
Telecom & ISP



Healthcare



Retail & SMB



Hospitality



Education

Wireless Interfaces

2.4 GHz (2x2:2) Radio

- Operating Mode AP/STA(CPE)/Repeater
- 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/Repeater
- 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)
- Hidden SSID in Beacons
- Auto WDS Adaptation (Single SSID for WDS Links and End Clients)
- Client Association Control per SSID by SNR and Data Rate
- Bandwidth Control Per SSID/Client
- Auto Channel Selection with User-Defined Channel Pooling
- Dynamic Frequency Selection (DFS) in 5 GHz Spectrum
- Band Steering
- Fast Roaming (802.11r) for AP Mode
- IGMP Snooping and Multicast-to-Unicast Conversion
- Frame Aggregation: A-MPDU, A-MSDU
- RTS/CTS Protection
- AP Lock for STA Association

Antennas

2.4 GHz Antenna

- Type External Omni-Directional
- Gain Average: 4 dBi; Peak: 5 dBi
- Connector 2 x RP-SMA (AP: Female)
- Polarization Linear, Vertical
- Horizontal Beamwidth 360°
- VSWR 2 (Max.)
- Impedance 50 Ω

5 GHz Antenna

- Type External Omni-Directional
- Gain Average: 4 dBi; Peak: 5 dBi
- Connector 2 x RP-SMA (AP: Female)
- Polarization Linear, Vertical
- Horizontal Beamwidth 360°
- VSWR 2 (Max.)
- Impedance 50 Ω

Networking

- Switch/Gateway Mode
- Spanning Tree Protocol (IEEE 802.1D)
- VLAN (Trunk/Access) per SSID
- DHCP Client/Server, DHCP Option 43, 60
- NAT
- Port Forwarding
- # PPPoE Client

Security

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

Management

- Zero-Touch Provisioning via Broadcast Discovery and DHCP Option 43
- Management Mode: Fat AP (Standalone), Thin AP
- Local Management:
 - Web User Interface (HTTP/HTTPS)
 - Command Line Interface (SSH)
 - Secondary IP Address

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

Will be available in the future.

Altai C260-X Outdoor Dual-Band Wi-Fi 6 Access Point

Unrivalled Cost-Performance with External Antenna in the Class



- Remote Management:
 - Insights
 - AltaiCare Private Cloud
 - AltaiCare On-Premises
 - AltaiGate
 - SNMP v1/v2c/v3
 - MIB2/IF-MIB/Altai Enterprise MIB
- Syslog
- Backhaul Connectivity Health Check and Safe Mode Access
- Ping Watchdog
- Diagnostic Tools: Channel Scanner, Packet Capture, Ping, Traceroute

Physical Specifications

- | | |
|---------------------|---|
| • Dimension | 250 x 140 x 56 mm (Without Antennas)
546 x 140 x 56 mm (With Antennas) |
| • 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 Connector Type A: 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% RH (Non-Condensing) |
| • Lightning Protection | EN 61000-4-5 |
| • Wind Loading | Up to 216 km/h (134 mph) |
| • Weatherproof | IP66 Compliant (When Installed Vertically) |

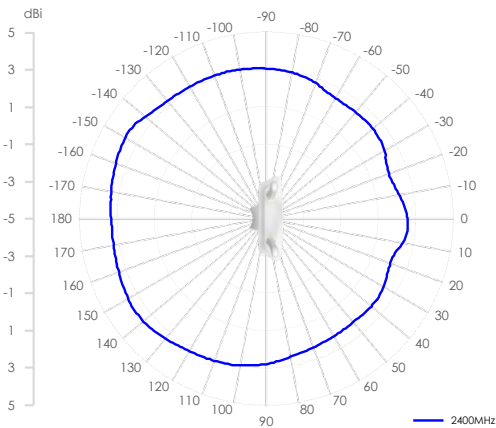
Certifications

- FCC/CE/Others
- RoHS Compliance

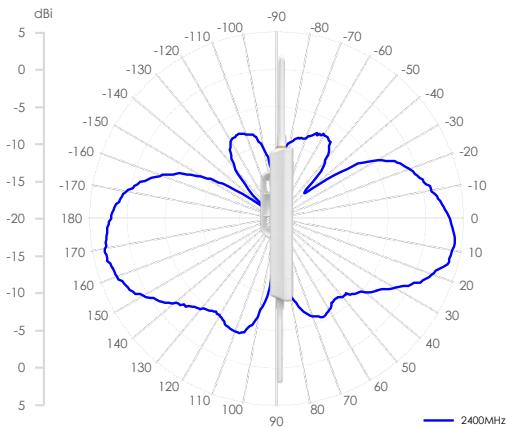
Warranty

- 1-Year Limited Hardware Warranty

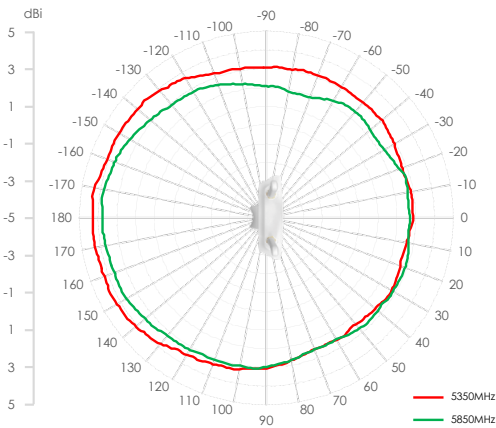
Radiation Patterns



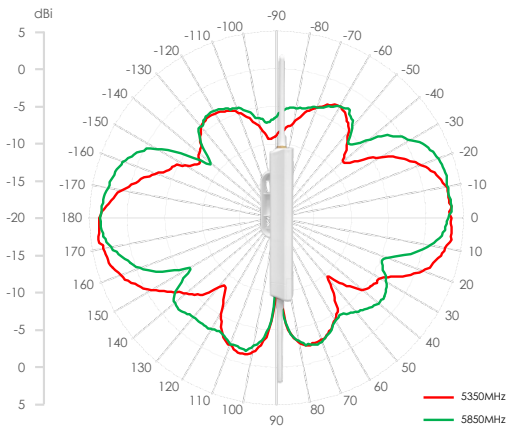
2.4 GHz Azimuth Plane



2.4 GHz Elevation Plane



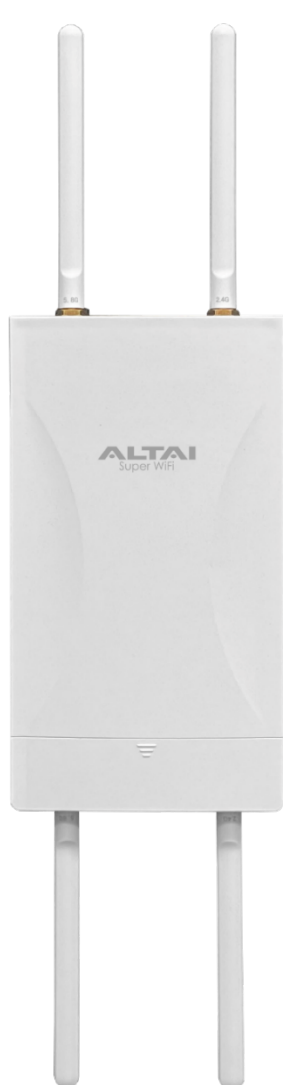
5 GHz Azimuth Plane



5 GHz Elevation Plane

Altai C260-X Outdoor Dual-Band Wi-Fi 6 Access Point

Unrivalled Cost-Performance with External Antenna in the Class



Front View



Back View



Left Side View



Right Side View



Top View



Bottom View



Compartment

Product Ordering Information	
Standard Package	
Part No.: SD.C260-3241-000	• C260-X Outdoor Dual-band 2x2 Wi-Fi 6 Access Point (Model No.: C260-X) • 2 x 2.4 GHz 4 dBi Omni-Directional Antenna • 2 x 5 GHz 4 dBi Omni-Directional Antenna • Standard Wall/Pole Mounting Kit
Optional Accessories – PoE Injector	
Part No.: SD.PE-0001-EP	• Indoor AC to 54 VDC 1 Gigabit Passive PoE Injector • No Power Cords/Wires included
Optional Accessories – PoE Switch	
Part No.: SD.IS120-1223-000	• MIS120P Industrial 6-Gigabit-Port Managed Layer 2+ PoE Switch • Optionally used in conjunction with 1) 120 W 48 VDC Industrial Power Supply (SD.PE-0001-MW), or 2) 240 W 48 VDC Industrial Power Supply (SD.PE-0002-MW)
Part No.: SD.IS200-3323-000	• MIS200P Industrial 14-Gigabit-Port Managed Layer 2+ PoE Switch • Optionally used in conjunction with 1) 120 W 48 VDC Industrial Power Supply (SD.PE-0001-MW), or 2) 240 W 48 VDC Industrial Power Supply (SD.PE-0002-MW)
Optional Accessories – Antenna	
Part No.: NS.AN-2M05-01	• 2.4 GHz 5 dBi RP-SMA Male Omnidirectional Antenna • Direct mount • Quantity required: 2 per C260-X
Part No.: SD.AN-2M5F-00	• 2.4 GHz 5 dBi N-Female Omnidirectional Antenna • Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 • Quantity required: 2 per C260-X
Part No.: SD.AN-2M8F-00	• 2.4 GHz 8 dBi N-Female Omnidirectional Antenna • Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 • Quantity required: 2 per C260-X
Part No.: SD.AN-2M10-00	• 2.4 GHz 10 dBi RP-SMA Male Omnidirectional Antenna • Pole mount • Quantity required: 1 per C260-X
Part No.: SD.AN-2S15-00	• 2.4 GHz 15 dBi N-Female Sector Antenna • Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 • Quantity required: 1 per C260-X
Part No.: NS.AN-5M09-SA	• 5 GHz 9 dBi N-Female Omnidirectional Antenna • Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 • Quantity required: 2 per C260-X
Part No.: SD.AN-5M13-00	• 5 GHz 13 dBi N-Female Omnidirectional Antenna • Pole mount • Quantity required: 1 per C260-X
Part No.: SD.AN-5S16-00	• 5 GHz 16 dBi N-Female Sector Antenna • Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 • Quantity required: 1 per C260-X
Part No.: SD.AN-5P20-00	• 5 GHz 20 dBi N-Female Panel Antenna • Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 • Quantity required: 1 per C260-X

Optional Accessories – Antenna	
Part No.: SD.AN-5P22-KB	5 GHz 22 dBi N-Female Panel Antenna - Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 - Quantity required: 1 per C260-X
Part No.: NS.AN-5D32-00	5 GHz 32 dBi N-Female Dish Antenna - Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 - Quantity required: 1 per C260-X
Part No.: NS.AN-5D34-00	5 GHz 34 dBi N-Female Dish Antenna - Pole mount, used in conjunction with RF cable: SD.CA-SM01-00 - Quantity required: 1 per C260-X
Optional Accessories – RF Cable	
Part No.: SD.CA-SM01-00	1-Meter RP-SMA Male to N-Male RF Cable
Optional Accessories – Ethernet Surge Protector	
Part No.: NS.MS-0001-PT	Outdoor 60 W Gigabit Ethernet Surge Protector
Warranty Extension	
Part No.: SV.HW-C2602-00	2nd Year Extended H/W Warranty for C260 Series
Part No.: SV.HW-C2603-00	3rd Year Extended H/W Warranty for C260 Series
Part No.: SV.HW-C2604-00	4th Year Extended H/W Warranty for C260 Series
Part No.: SV.HW-C2605-00	5th Year Extended H/W Warranty for C260 Series
Annual Technical Support and Warranty Extension	
Part No.: SV.AS-0508-01	2nd/3rd Year Extended H/W Warranty and Technical Support - Quantity: 1 for the 2nd Year Extended H/W Warranty and Technical Support - Quantity: 2 for the 2nd and 3rd Year Extended H/W Warranty and Technical Support
Part No.: SV.AS-0508-02	4th Year Extended H/W Warranty and Technical Support
Part No.: SV.AS-0508-03	5th Year Extended H/W Warranty and Technical Support
Contact Us	
Email: sales@altaitechnologies.com or info@altaitechnologies.com	

DS-CX260X-260702-V2.0

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