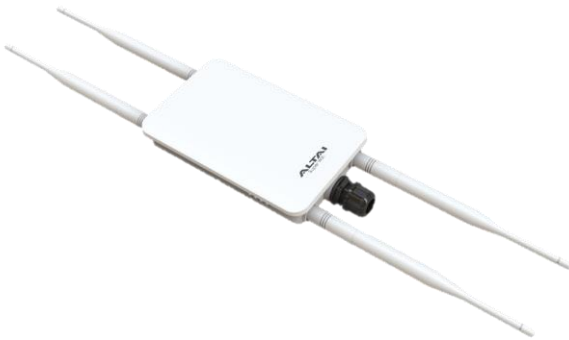## Altai CX200 Outdoor 2x2 802.11ac Wave 2 Wi-Fi AP

Designed for medium to high-density outdoor venues, the Altai CX200, with next generation 802.11ac Wave 2 technology, delivers unparalleled Wi-Fi experience and highly reliable connectivity at the market's most affordable price point.

Exceptional Performance in Harsh Outdoor Conditions

The CX200 features patented Altai technologies to extend coverage, optimize capacity, mitigate interference, and offer ultra-fast speed – up to data rates of 867 Mbps on 5 GHz and 400 Mbps on 2.4 GHz.

With an IP67-rated weatherproof enclosure, the CX200 is an ideal solution for harsh environmental conditions. Its compact form factor and low-profile housing design allows the device to blend into any surrounding easily.

Flexible Antenna Options

The CX200 provides flexible antenna options with its external RF connectors. The included Omni-directional antennas deliver powerful 360° coverage, whereas optional high gain sectorized antennas can be used for extend directional coverage.

Super Dual-Band Coverage

Max. LOS Access	300 m (2.4 GHz) 200 m (5 GHz)
Max. Data Rate	400 + 867 Mbps

Ease of Deployment

Whether a Wi-Fi network has several or hundreds of CX200 APs, it can be easily managed through the AltaiGate WLAN controller, or virtual and cloud management options with the AltaiCare.

Use Cases

- Combined with AltaiCare, the CX200 delivers a cost-effective outdoor Wi-Fi hotspot solution with a powerful advertisement engine and extensive login options such as free access, email registration, pay-to-access, and social media logins

- Due to its excellent price/performance ratio, the CX200 is ideally suited for medium to high-density locations like airports, container ports, convention centers, plazas, malls, warehouses, and stadiums

- For city-wide wireless infrastructure, the CX200 complements the A8n (ac) Super WiFi Base Station and AX500 Smart APs for key applications such as wireless broadband services, Smart Cities, and IoT

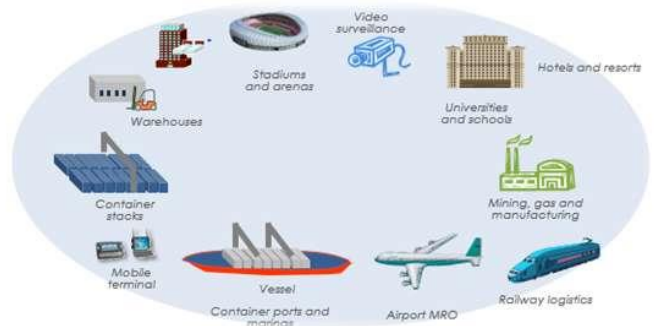**As an integral part of the Altai Super WiFi solution, the CX200 has the following key benefits:**

Powerful Performance MU-MIMO significantly improves multi-client capacity, and dual-radios deliver data rates up to 867 Mbps on 5 GHz and 400 Mbps on 2.4 GHz

AirFi Optimization Altai's AirFi technology enhances client's throughput based on their signal strength and data

Hardened for Adverse Environments IP67-rated waterproof and dustproof housing withstands harsh environment

Compact Form Factor Compact and low-profile housing design allows the CX200 to blend into any surrounding

Versatile Antenna Options Use the included Omni antennas, or optional high gain Omni or sectorized antennas for extended coverage

Flexible Management Standalone, controller-based management with AltaiGate, or cloud-based management with AltaiCare

Wireless Interfaces

802.11b/g/n (2x2:2) Radio
- Operating Mode   Access Point/CPE/Repeater
- Standard   IEEE 802.11b/g/n
- Operating Frequency   2.400 – 2.835 GHz (Ch 1-13)
- Transmit Power   22 dBm (Max.)
       19 dBm (Per Chain)
- Receiver Sensitivity (Typical)

802.11b	11 Mbps	-84 dBm;	1 Mbps	-92 dBm
802.11g	54 Mbps	-72 dBm;	6 Mbps	-89 dBm
802.11n	HT20	-87 dBm;	HT40	-84dBm

802.11a/n/ac Wave 2 (2x2:2) Radio
- Operating Mode   Access Point/CPE/Bridge/ Repeater
- Standard   IEEE 802.11a/n/ac
- MU-MIMO   Up to 2 Streams
- Operating Frequency   5.150 – 5.250 GHz
       5.250 – 5.350 GHz
       5.470 – 5.725 GHz
       5.725 – 5.850 GHz
- Transmit Power   22 dBm (Max.)
       19 dBm (Per Chain)
- Receiver Sensitivity (Typical)

802.11a	54 Mbps	-71 dBm;	6 Mbps	-89 dBm
802.11n	HT20	-89 dBm;	HT40	-86 dBm
802.11ac	VHT20	-89 dBm;	VHT40	-85 dBm;
	VHT80	-83 dBm		

For both 2.4 and 5 GHz
-
- 32 SSID (16 SSID per Radio)
- WMM, 802.11h, 802.11k, 802.11r, 802.11v, 802.11w
- Passpoint (Release 2)
- Fast Roaming
- Band Steering
- Multi-AP Steering
- Smart Load Balancing
- Dual-Radio Redundancy*
- 1 + N Redundancy*
- Smart Mesh Networking*
- Auto Channel Selection and TX Power Control
- Bandwidth Control Per SSID/Client
- Altai AirFi™ Throughput Optimization

Antenna

2.4 GHz Antenna
- Antenna Connector   2 x RP-SMA Female
- External Antenna   5 dBi Omni

5 GHz Antenna
- Antenna Connector   2 x RP-SMA Female
- External Antenna   5 dBi Omni

Networking
- Switch (Bridge) and Gateway Mode
- IPv4/IPv6 Dual-Stack
- NAT
- DHCP Client/Server
- PPPoE Client
- Soft-GRE
- VLAN
- Multicast Rate Filter/IGMP Snooping

Security
- Authentication – Open, Shared key, WPA/WPA-PSK, WPA2/WPA2-PSK, WPA3*, 802.1x (EAP-PEAP/TLS/TTLS/SIM/AKA)
- Encryption – WEP, TKIP, AES
- Inter/Intra-SSID Client Isolation
- MAC-based Access Control (White/Black List)
- RADIUS/Active directory
- Dynamic VLAN Assignment
- Firewall
- WIDS/WIPS
- Broadcast/Multicast/Unicast Flooding Control

Management
- Management Platforms: AltaiGate, AltaiCare, AtlaiCare Appliance
- Web User Interface
- Command Line Interface (SSH)
- Remote Factory Reset
- Trusted Management IP List
- SNMP v1/v2c/v3
- MIB2/IF-MIB/Altai Enterprise MIB
- Syslog
- Spectral Analysis*
- KPI Monitoring*
- Client OS and Hostname Detection

Physical Specifications
- Dimension   174 x 112 x 31 mm
- Weight   0.3 kg (Without Mounting Kit)
- Mounting   Pole/Wall-Mounted
- Network Interface   1 x 10/100/1000 Mbps Ethernet Port

Environmental Specifications
- Operating Temperature   -20 °C to +60 °C
- Storage Temperature   -40 °C to +80 °C
- Humidity   Up to 90 % (Non-Condensing)
- Lightning Protection   EN 61000-4-5
- Wind Loading   Up to 200 km/h (124 mph)
- Weatherproof   IP67 Compliant

Power Supply
- Power Supply   802.3af PoE PD or 54 VDC Passive PoE PD
- Power Consumption   11.7 W (Max.)

Certifications
- FCC/ CE/Others*
- RoHS Compliance

Product Ordering Information

CX200 (Part No.: SD.CX200-2231-000)
- CX200 Outdoor 2x2 802.11ac Wave 2 Wi-Fi AP
- Mounting Accessories
- 2 x 2.4 GHz 5 dBi Omni Antennas
- 2 x 5 GHz 5 dBi Omni Antennas

Optional Accessory
- 54 VDC Passive PoE Injector

Contact Us
- Email: sales@altaitechnologies.com

CX200-PB210914

Will be available in the future.
The coverage range will vary depending on NLOS and interference conditions
The transmit power may vary according to country regulation