

## Altai CX600 Wi-Fi Access Point

The Altai CX600, with the latest Wi-Fi 6 (802.11ax) technology, is specifically designed to provide highly reliable and consistent connectivity to mobile users and IoT devices at the market's most affordable price point.

With maximum data rates of 1.774 Gbps, Altai's patented technologies, and Wi-Fi 6 features such as OFDMA and bi-directional multi-user MIMO, the CX600 delivers the capacity, coverage, and reliability to meet the challenges for medium- to high-density outdoor venues.

### Wi-Fi 6 Technology

The 802.11ax technology greatly enhances multi-user efficiency as well as speed. In outdoor deployments, the 802.11ax standard delivers greater range by boosting the RF frame preamble by 3 dB and improving signal quality with increased guard interval compared to existing Wi-Fi technology.

### Super Coverage and Capacity

Max. LOS Access	350 m (2.4 GHz) 250 m (5 GHz)
Max. Data Rate	574 + 1200 Mbps
Max. Concurrent Users	512 (256 per Radio)



### Seamless Mobility

The CX600 supports the Altai Smart Roaming Technology that enables low-latency roaming and resolves sticky client issues.

### Enhanced Security Services

With WPA3 security and Enhanced Open, as well as the Altai WIPS Suite, the CX600 delivers the highest level of security services.

### Flexible Management

Altai APs offer flexible management options which include standalone mode, WLAN controller with AltaiGate, virtual appliance with AltaiCare On-Premise, and cloud service with AltaiCare Cloud.

## Key Features and Benefits

- **Best value in price/performance** Dual-band Wi-Fi 6 with extended coverage at the market's most affordable price point
- **Wi-Fi 6 Technology** OFDMA and MU-MIMO for enhanced multi-user efficiency and speed. Other features such as 1024 QAM of modulation, BSS coloring and Target Wake Time also help optimize CX600's performance
- **Dual-Band Dual-Concurrent** The CX600 delivers maximum data rates of up to 1.2 Gbps in 5GHz and 574 Mbps in 2.4GHz, providing connectivity for up to 256 associated clients per radio
- **Seamless Mobility** Built-in Altai Smart Roaming Technology enables low-latency roaming and resolves sticky client issues
- **AirFi™ Technology** Altai AirFi™ enhances the CX600's capacity by optimizing the clients' throughput based on their speed and data volumes
- **Enhanced Security** The CX600 supports WPA3, Enhanced Open, and the Altai WIPS Suite to help protect user authentication and wireless traffic.
- **Hardened for Adverse Environments** IP67-rated waterproof and dustproof housing that can withstand harsh environments
- **Versatile Antenna Options** Use the included Omni antennas or optional high gain Omni or sectorized antennas for enhanced coverage
- **Flexible Management** Standalone mode, WLAN controller with AltaiGate, virtual appliance with AltaiCare On-Premises, and cloud service with AltaiCare Cloud

## Wireless Interface

### 802.11b/g/n/ax (2x2:2) Radio

- Operating Mode AP/ CPE/ Bridge/ Repeater
- Standard IEEE 802.11b/g/n/ax
- Maximum Data Rate 574 Mbps
- Operating Frequency 2.400 – 2.484 GHz
- Transmit Power 22 dBm (Max.)
- Receiver Sensitivity
 

1 Mbps	-98 dBm;	11 Mbps	-89 dBm
6 Mbps	-93 dBm;	54 Mbps	-76 dBm
HT20 MSC0	-93 dBm;	HT20 MSC7	-73 dBm
HT40 MSC0	-90 dBm;	HT40 MSC7	-71 dBm
VHT20 MSC0	-93 dBm;	VHT20 MSC8	-70 dBm
VHT40 MSC0	-90 dBm;	VHT40 MSC9	-66 dBm
HE20 MSC0	-93 dBm;	HE20 MSC11	-64 dBm
HE40 MSC0	-90 dBm;	HE40 MSC11	-61 dBm

### 802.11a/n/ac/ax (2x2:2) Radio

- Operating Mode AP/ CPE/ Bridge/ Repeater
- Standard IEEE 802.11a/n/ac/ax
- Maximum Data Rate 1.2 Gbps
- Operating Frequency 5.150 – 5.350 GHz  
5.470 – 5.725 GHz  
5.725 – 5.850 GHz
- Transmit Power 25 dBm (Max.)
- Receiver Sensitivity
 

6 Mbps	-95 dBm;	54 Mbps	-78 dBm
HT20 MSC0	-94 dBm;	HT20 MSC7	-75 dBm
HT40 MSC0	-92 dBm;	HT40 MSC7	-73 dBm
VHT20 MSC0	-94 dBm;	VHT20 MSC8	-71 dBm
VHT40 MSC0	-92 dBm;	VHT40 MSC9	-68 dBm
VHT80 MSC0	-89 dBm;	VHT80 MSC9	-64 dBm
HE20 MSC0	-95 dBm;	HE20 MSC11	-66 dBm
HE40 MSC0	-92 dBm;	HE40 MSC11	-63 dBm
HE80 MSC0	-89 dBm;	HE80 MSC11	-60 dBm

## Supported Radio Technologies

- 802.11b: Direct-Sequence Spread-Spectrum (DSSS)
- 802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
- 802.11ax: Orthogonal Frequency-Division Multiple Access (OFDMA)

## Other Wi-Fi Features

- 32 SSID (16 SSID per Radio)
- 802.11h, 802.11k, 802.11r, 802.11v, 802.11w, 802.11y
- Passpoint\* (Release 2)
- Fast Roaming
- Dual Radio Redundancy
- Smart Load Balancing\*
- 1+ N Redundancy
- Altai AirFit™ Throughput Optimization
- WMM (802.11e)

## 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\*
- VLAN
- Bandwidth Control Per VAP/ Client
- 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
- Client Isolation
- MAC-based Access Control (White/ Black List)
- RADIUS
- Active directory
- Firewall\*
- WIPS\* – Denial of Service, Rogue AP Detection, Alerting and Reporting

## Management

- Management Platforms: Standalone, AltaiGate, AltaiCare Cloud Service, AltaiCare On-Premises Virtual Appliance
- Web User Interface
- Command Line Interface (SSH)
- SNMP\* v1/ v2c / v3
- MIB2/ IF-MIB/ Altai Enterprise MIB\*
- Syslog
- Remote Factory Reset\*
- Auto Channel Selection and TX Power Control
- Client OS Detection\*

## Physical Specification

- Dimension 190 mm x 124 mm x 47 mm
- Weight 0.7 kg
- Mounting Pole/ Wall Mounting
- Network Interface 1 x 2.5 GbE Port

## Power Supply

- Power Supply 802.3af/at PoE PD or 54 VDC Passive PoE PD
- Power Consumption 12 W (Typical)

## Environmental Specification

- 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 220 km/h (136 mph)
- Weatherproof Rating IP67 Compliant

## Certification

- FCC/CE/Others\*
- RoHS2

## Product Ordering Information

### CX600 (Part No.: SD.CX600-2241-000)

- CX600 2x2 Wi-Fi 6 Access Point
- Mounting Accessories
- 2 x 2.4 GHz 5 dBi Omni Antennas
- 2 x 5 GHz 5 dBi Omni Antennas

### Optional Accessories

- 54 VDC Passive PoE Injector

### Contact Us

- Email: sales@altaitechnologies.com

\*Will be available in the future.

CX600-PB-20220617

The coverage or range may vary depending on environmental conditions.  
The transmit power may vary according to country regulations.

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