

Altai IX500 Indoor 2x2 802.11ac Wave 2 AP

The Altai IX500, with next generation 802.11ac Wave 2 technology, is specifically designed to deliver unparalleled Wi-Fi experience and highly reliable and consistent services to mobile users at the market's most affordable price point.

The IX500 offers several powerful features to meet the challenges of today's Wi-Fi networks:

- By allowing simultaneous transmissions from AP to multiple clients, MU-MIMO increases the capacity of the IX500 substantially
- Altai's Advance Interference Mitigation Suite provides significant reduction in interference
- AirFi technology enhances the performance of the IX500 by optimizing clients' throughput based on their signal strength and traffic
- Altai's smart band steering and load balancing technologies allow the IX500 to effectively utilize both 2.4GHz and 5GHz spectrums for supporting a large number of mobile users running bandwidth hungry applications

Super Dual-band Coverage

Max. LOS Access	350 m (2.4 GHz) 250 m (5 GHz)
Max. Data Rate	400 + 867 Mbps



Applications

- With AltaiCare and its powerful access management features and advertisement engine, the IX500 delivers the best-in-class indoor Wi-Fi hotspot solution with extensive login options such as free access, email registration and verification, pay-to-access, and social media logins
- The IX500, together with AltaiCare, allows plug-and-play Wi-Fi network deployment and offers a pay-as-you-grow model. Thus, it is ideally suited for small and mid-size enterprises
- Due to its superior range and capacity, the IX500 offers the most cost effective solution that delivers highly reliable dual-band Wi-Fi services for venues such as schools, hotels, retail stores, and warehouses

Key Features and Benefits

- **Best value in price/performance** Dual band 802.11ac wave 2 with extended coverage at the market's most affordable price point
- **MU-MIMO Increases Capacity** By allowing simultaneous transmissions from AP to multiple clients, MU-MIMO increases the capacity of IX500 substantially
- **Dual-Band Dual-Concurrent** The IX500 delivers data rates of up to 867 Mbps in 5GHz and 400 Mbps in 2.4GHz. This, together MU-MIMO, allows a Wi-Fi network to support a large number of mobile users running high bandwidth applications
- **Advance Interference Mitigation** Altai's Advance Interference Mitigation Suite offers optimal capacity and interference rejection
- **AirFi optimizes capacity** AirFi enhances the IX500's capacity by optimizing a client's throughput based on its signal strength and traffic
- **Low profile housing design** Sleek, low profile design allows it to blend into any surrounding environment
- **Flexible Management Options** Standalone, controller-based management with AltaiGate, or cloud-based management with AltaiCare
- **Ease of Deployment** Zero configuration of AltaiCare allows a non-technical person to simply unpack and plug the IX500 to Wi-Fi network.
- **IP 55 Rating** Flexible even in outdoor applications

Wireless Interface

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

- Operating Mode AP/ CPE/ Bridge/ Repeater
- Standard IEEE 802.11a/b/g/n
- Operating Frequency 2.400 – 2.484 GHz (Ch 1-13)
- Transmit Power 25 dBm (Max.)

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

- Operating Mode AP/ CPE/ Bridge/ Repeater
- Standard IEEE 802.11a/b/g/n/ac
- Operating Frequency 5.150 – 5.350 GHz
5.470 – 5.725 GHz
5.725 – 5.850 GHz
- Transmit Power 24 dBm (Max.)

For both 2.4 and 5 GHz

- 32 SSID (Max. 16 SSID per Radio)
- 802.11h*, 802.11k*, 802.11r*, 802.11v*, 802.11w*
- Hotspot 2.0
- Altai AirFit™ Throughput Optimization
- Band Steering
- WMM (802.11e)

Antenna

2.4 GHz Antenna

- Built-in Antenna 4 dBi Omni
- Frequency 2.4 – 2.5 GHz
- Polarization 2x2 MIMO Diversity Polarized
- Horizontal Beamwidth 360° (-3 dB)

5 GHz Antenna

- Built-in Antenna 5 dBi Omni
- Frequency 5.150 – 5.875 GHz
- Polarization 2x2 MIMO Diversity Polarized
- Horizontal Beamwidth 360° (-3 dB)

Networking

- Switch (Bridge) and Gateway Mode
- IPv4/ IPv6 Dual-stack
- NAT
- DHCP Client/ Server
- PPPoE Client
- VPN (IPsec)*
- VLAN
- Bandwidth Control Per VAP/ Client
- Multicast Rate Filter/ IGMP Snooping

Security

- Authentication – Open system, Shared key, WPA/ WPA-PSK, WPA2/ WPA2-PSK, 802.1x (EAP-PEAP/ TLS/ TTLS/ SIM/ AKA)
- Encryption – WEP, TKIP, AES
- Inter/ Intra-client Isolation
- MAC-based Access Control (White/ Black List)
- RADIUS
- Active directory
- Firewall*
- WIPS*

Management

- Cloud or Server-based Management by AltaiCare
- Controller-based Management by AltaiGate
- Web User Interface
- Command Line Interface (SSH)
- SNMP v1/ v2c / v3*
- MIB2/ IF-MIB/ Altai Enterprise MIB
- Syslog
- Auto Channel Selection and TX Power Control
- Spectral Analysis*
- KPI Monitoring*
- Client OS Detection*

Physical Specification

- Dimension 142 mm x 142 mm x 34 mm
- Weight 0.3 kg
- Mounting Ceiling, T-Rail, or Wall-mounted
- Network Interface 1 x 10/100/1000 Mbps Ethernet Port

Power Supply

- Power Supply 802.3af/at PoE
12 VDC
- Power Consumption 8 W (Typical)/12 W (Max.)

Environmental Specification

- Operating Temperature -10 °C to + 50 °C
- Storage Temperature -30 °C to + 80 °C
- Humidity 90% or Less (Non-condensing)
- Weatherproof IP55 Compliance

Certification

- FCC/CE/Others*

Product Ordering Information

IX500 (Part No.: SD.IX500-2231-000)

- IX500 Indoor 2x2 802.11ac Wave 2 AP with Integrated 2.4 GHz and 5 GHz Omni Antennas
- Indoor Mounting Accessories
- 12 VDC AC/DC Adapter
- Quick Start Guide

Optional Accessories

- Outdoor Mounting Accessories

Contact Us

- Email: sales@altaitechnologies.com

**Will be available in the future.*

IX500-PB-181003

The coverage or range may vary depending on environmental conditions.

The transmit power may vary according to country regulations.

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