Altai IX500 Indoor 2x2 802.11ac Wave 2 AP
Dual-Band with Integrated 2.4 GHz and 5 GHz Omni Antennas

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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 appliacations

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Multiple Solutions. One Source.

Altai IX500 Indoor 2x2 802.11ac Wave 2 AP
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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 AirFi™ 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 x142 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

IX500-PB-181003

*Will be available in the future.
The coverage or range may vary depending on environmental conditions.
The transmit power may vary according to country regulations.
Although Altai has attempted to provide accurate information in these materials, Altai assumes no legal liability for the accuracy and completeness of the information.
All specifications are subject to change without notice.

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