Altai i260 Indoor Wi-Fi 6 Access Point

Unrivalled Cost-Performance with 2x2 Dual Band Integrated Antenna

The Altai i260 is a cost-effective Wi-Fi 6 access point designed to deliver strong performance and reliable indoor wireless connectivity. With maximum data rates of up to 2.976 Gbps, the i260 incorporates advanced Wi-Fi 6 technologies such as MU-MIMO and OFDMA to efficiently support the connectivity demands in offices, classrooms, and other indoor environments. Combining competitive pricing with an excellent performance-to-cost ratio, the i260 is an ideal choice for users seeking robust wireless capabilities within budget.



Key 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 *

Indoor Dual-Band Coverage

	LOS Distance for Smartphone *	
	2.4 GHz	5 GHz
Open Area	300 m	200 m
Office Environment	37 m	20 m

Power over Ethernet (PoE) Support

With 802.3af standard PoE, the i260 can be easily powered up by any PoE switches without the need for additional adapters.

Secure Wireless Protection

Supports WPA3 for secure Wi-Fi access, offering advanced encryption protocols to safeguard data transmission.

Ease of Deployment

Easily managed through the 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.*

Altai Technologies Ltd. All rights reserved

Altai i260 Indoor Wi-Fi 6 Access Point

Unrivalled Cost-Performance with 2x2 Dual Band Integrated Antenna

ALTAI Super WiFi

Wireless Interfaces

2.4 GHz (2x2:2) Radio

- Operating Mode: AP/STA/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
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

- 8 SSID (4 SSID per Radio)
- Client Association Control per SSID by SNR
- Bandwidth Control Per SSID/Client
- Band Steering
- Auto Channel Selection with User-Defined Channel Pooling

Antennas

2.4 GHz Antenna

- 2.4GHz Antenna: Built-in 5 dBi Omni, 2x2 MIMO
- 5GHz Antenna: Built-in 3.5 dBi Omni, 2x2 MIMO

Networking

- Switch/Gateway Mode
- NAT
- DHCP Client/Server
- PPPoE Client #
- VLAN per SSID
- IGMP Snooping #

Security

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

Management

- Management Platforms: Standalone, Insights, AltaiCare Private Cloud #, AltaiCare On-Premises #, and AltaiGate #
- Syslog

Physical Specifications

- Dimension: 186 x 186 x 37 mm
- Weight: 0.52 kg (Without Mounting Kit)
- Mounting: Ceiling/Wall Mount
- Network Interface: 1 x 10/100/1000Mbps RJ-45 Port (PoE In)
1 x 10/100/1000Mbps RJ-45 Port
- Indicator: 1 x WAN LED
1 x LAN LED
- Reset Button: Onboard

Power

- Power Supply: 802.3af PoE PD, or
Passive 48 – 56 V PoE PD, or
12 VDC, 1.5A
- Power Consumption: < 15 W

Environmental Specifications

- Operating Temperature: -10 °C to +45 °C (Ambient)
- Storage Temperature: -40 °C to +70 °C
- Humidity: 5% – 95% (Non-Condensing)

Warranty

- 1-Year Limited Hardware Warranty

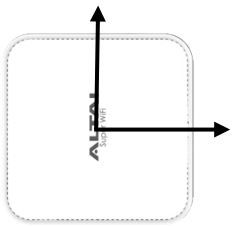
Certifications

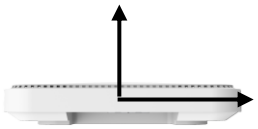
- * FCC/CE
- RoHS

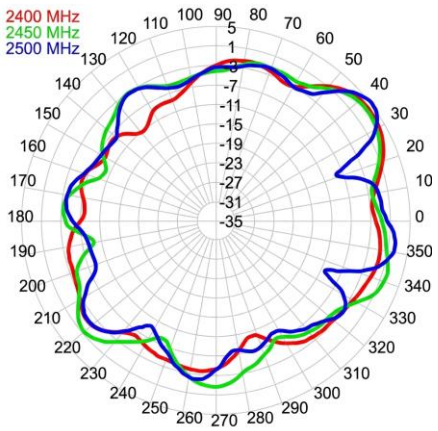
† The transmit power and operating frequency may vary according to country regulations.
 # Will be available in the future.

Altai Technologies Ltd. All rights reserved

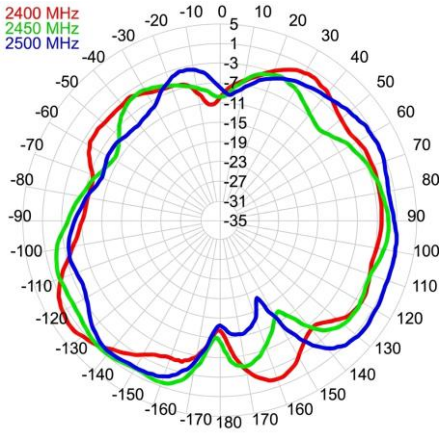
Antenna Radiation Patterns



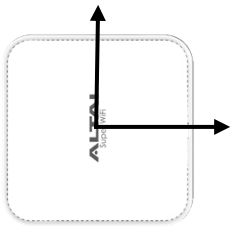


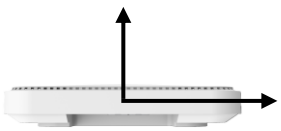


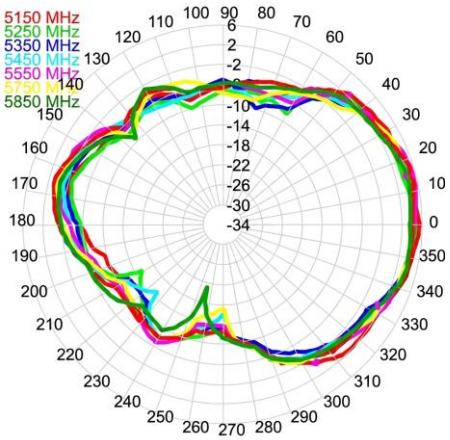
2.4 GHz Horizontal Plane



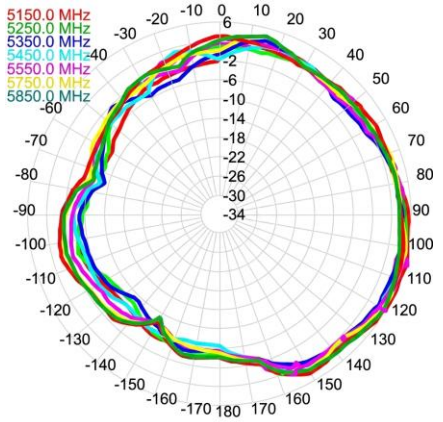
2.4 GHz Vertical Plane







5 GHz Horizontal Plane



5 GHz Vertical Plane

Altai Technologies Ltd. All rights reserved

Product Ordering Information	
Standard Package	
Part No.: SD.i260-3243-000	• i260 Indoor Wi-Fi 6 Access Point (Model No.: i260) • Ceiling/Wall Mounting Kit
Optional Accessories	
Part No.: SD.PE-0001-EP	• Indoor 54 VDC 1 gigabit passive PoE injector
Contact Us	
• Email: sales@altaitechnologies.com or info@altaitechnologies.com	

I260-PB-260831

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

Altai Technologies Ltd. All rights reserved