

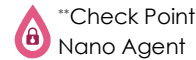
Altai i760 Indoor Dual-Band Wi-Fi 6 Access Point

Multi-Gig Connectivity with Integrated 4x4 MIMO Omni Antenna



The Altai i760 is a Wi-Fi 6 4x4 access point designed to deliver an affordable, high-speed networking solution for businesses of all sizes. Featuring a dual-band concurrent architecture and a 2.5G Ethernet uplink port, the i760 provides multi-gigabit connectivity to meet the demands of high-bandwidth and high-density environments, such as offices, schools, and exhibition halls. Equipped with high-gain antennas, the i760 enhances Wi-Fi signals and extends coverage for optimal performance. Additionally, it offers easy management through cloud or on-premises controllers, including AltaiCare, Insights, and AltaiGate, making it an excellent choice for large-scale network deployments.

Compatible with:



Key Features and Benefits



Enhanced Capacity with Wi-Fi 6 Support

Harnesses Wi-Fi 6 features such as 1024-QAM OFDMA, 160 MHz channel bandwidth and multi-user MIMO to increase capacity on both 2.4 GHz and 5 GHz bands significantly, ensuring superior Wi-Fi performance.

Total Data Rate	5.378 Gbps (574 Mbps @ 2.4 GHz radio + 4804 Mbps @ 5 GHz radio)
*Max. Concurrent Users	512 (256 @ 2.4 GHz radio and 256 @ 5 GHz radio)



Extended Indoor Dual-Band Coverage

	*Expected Line-of-Sight Distance between i760 AP and Smartphone	
	2.4 GHz	5 GHz
Open Area	380 m	270 m
Typical Office Environment	37 m	20 m



Power over Ethernet Plus (PoE+) Support

With 802.3at standard PoE, the i760 can be easily powered up by any PoE+ switches without the need for additional adapters.



Robust System Design

Supports dual-image and fail-safe boot to minimize the risk of system file corruption caused by power supply issues or improper operations.



Multi-AP Coordination for Seamless Mobility and Load Balancing

Enables low-latency roaming and resolves sticky client issues with support for 802.11k/v/r and Altai's Smart Roaming and Steering algorithm.



Secure Wireless Protection

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



Zero Touch Provisioning (ZTP)

With ZTP, the i760 AP can automatically discover on-premises controllers such as AltaiCare Mini, AltaiCare On-Premises, and AltaiGate for self-configuration. This feature streamlines the setup process, reduces deployment time, and minimizes the risk of configuration errors, ensuring a smooth and efficient network rollout.

* The distance values listed in the table are applicable for basic connectivity only. For high-bandwidth and time-sensitive applications, a stronger signal is required, which translates to shorter distances. Please note the actual number of concurrent users and performance can vary based on site conditions, distance, device configurations, and overall capabilities.

** The Check Point's Nano Agent feature is supported via AltaiGate feature license upgrade.

Wireless Interfaces

2.4 GHz (2x2:2) Radio

- Operating Mode AP/STA (CPE)/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 25 dBm (Max.), 22 dBm (Per Chain)
Adjustable in 1 dB step
- Modulation CCK, BPSK, QPSK, 16-QAM, 64-QAM
256-QAM, 1024-QAM
- Receiver Sensitivity (Typical, Per Chain)

802.11b	1 Mbps	-95 dBm;	11 Mbps	-85 dBm
802.11g	6 Mbps	-92 dBm;	54 Mbps	-73 dBm
802.11n	HT20, MCS0	-90 dBm;	HT20, MCS7	-72 dBm
	HT40, MCS0	-88 dBm;	HT40, MCS7	-70 dBm
802.11ax	HE20, MCS0	-85 dBm;	HE20, MCS11	-55 dBm
	HE40, MCS0	-82 dBm;	HE40, MCS11	-54 dBm

5 GHz (4x4:4) Radio

- Operating Mode AP/STA (CPE)/Bridge/Repeater
- Standard IEEE 802.11a/n/ac/ax
- Maximum Data Rate 4804 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 28 dBm (Max.), 22 dBm (Per Chain)
Adjustable in 1 dB step
- Modulation BPSK, QPSK, 16-QAM, 64-QAM
256-QAM, 1024-QAM
- Receiver Sensitivity (Typical, Per Chain)

802.11a	6 Mbps	-90 dBm;	54 Mbps	-72 dBm
802.11n	HT20, MCS0	-88 dBm;	HT20, MCS7	-71 dBm
	HT40, MCS0	-87 dBm;	HT40, MCS7	-69 dBm
802.11ac	VHT20, MCS0	-88 dBm;	VHT20, MCS9	-65 dBm
	VHT40, MCS0	-85 dBm;	VHT40, MCS9	-63 dBm
	VHT80, MCS0	-82 dBm;	VHT80, MCS9	-60 dBm
802.11ax	HE20, MCS0	-88 dBm;	HE20, MCS11	-60 dBm
	HE40, MCS0	-85 dBm;	HE40, MCS11	-56 dBm
	HE80, MCS0	-82 dBm;	HE80, MCS11	-54 dBm
	HE160, MCS0	-79 dBm;	HE160, MCS11	-52 dBm

Other Radio Specifications

- 20 SSID (10 SSID per Radio) by default, expandable to 32 SSID
- Hidden SSID in Beacons
- Client Association Control per SSID by SNR and Data Rate
- Bandwidth Control Per SSID/Client
- Auto Channel Selection and Interference Mitigation Suite
- Dynamic Frequency Selection (DFS) in 5 GHz spectrum
- #Band Steering
- #Multi-AP Steering and Stickiness Optimization (802.11k/v)
- Fast Roaming (802.11r)
- QoS: 802.11e (WMM), 802.1p (PCP), DSCP, U-APSD
- #Dual-Radio and 1+N Redundancy
- STA Association Control by BSSID (STA/Repeater Mode Only)
- Fram Aggregation: A-MPDU, A-MSDU
- RTS/CTS Protection
- IGMP Snooping and Multicast to Unicast Conversion
- Multicast Rate Filter

Networking

- Switch/Gateway Mode
- #IPv4/IPv6 Dual-Stack
- Spanning Tree Protocol (IEEE 802.1D)
- NAT
- DHCP Client/Server
- #PPPoE Client
- VLAN per SSID (Trunk/Access)
- VLAN per User (Dynamic VLAN)
- VLAN Pooling
- Port Forwarding
- PROFINET Passthrough
- LACP Passthrough
- LLDP Neighbor Discovery
- SoftGRE/EoIP Tunneling

Security

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

Management

- Management Mode: Fat AP (Standalone), Thin AP
- Local Management:
 - Web User Interface (HTTP/HTTPS)
 - Command Line Interface (SSH, USB)
 - Secondary IP Address
- Remote Management:
 - Insights
 - AltaiCare Private Cloud
 - AltaiCare On-Premises
 - AltaiCare Mini
 - AltaiGate
 - SNMP v1/v2c/v3
 - MIB2/IF-MIB/Altai Enterprise MIB
 - Reverse SSH
- Syslog
- #Remote Factory Reset
- Backhaul Connectivity Health Check and Safe Mode Access
- Ping Watchdog
- Diagnostic Tools: Channel Scanner, Packet Capture, Ping, Traceroute

† The transmit power and operating frequency may vary according to country regulations.

Will be available in the future.

Altai i760 Indoor Dual-Band Wi-Fi 6 Access Point

Multi-Gig Connectivity with Integrated 4x4 MIMO Omni Antenna



Antennas

2.4 GHz Radio Antenna

- Antenna Type Built-In 5 dBi Omni, 2x2 MIMO

5 GHz Radio Antenna

- Antenna Type Built-In 6 dBi Omni, 4x4 MIMO

Physical Specifications

- Dimensions 240 x 231 x 50 mm
- Weight 1.4 kg (Without Mounting Kit)
1.54 kg (With Mounting Kit)
- Mounting Ceiling or Wall-mounted
- Network Interface 1 x 10/100/1000/2500 Mbps RJ-45 Port (PoE In)
- Console USB Type-C
- IoT Radio BLE
- Indicator 1 x System Status
- Reset Button Onboard
- Security Kensington Lock Slot

Power

- ‡Power Supply 802.3at PoE PD, or
Passive 48 – 54 V PoE PD, or
12 VDC Jack, Ø5.5 x Ø2.1 x 10 mm
- Power Consumption 16.47 W (Typical), 21 W (Max.)

Environmental Specifications

- Operating Temperature -10 °C to +50 °C (Ambient)
- Storage Temperature -30 °C to +70 °C
- Humidity 0% to 95% (Non-Condensing)

Certifications

- FCC/CE/Others
- RoHS2 Compliance

Warranty

- 1-Year Limited Hardware Warranty

‡ Power accessories including PoE injectors and AC-to-DC adapters are not included.

Product Ordering Information

Standard Package

Part No.: SD.i760-7243-000	• i760 Indoor Dual-Band Wi-Fi 6 Access Point with Integrated Omni Antenna (Model No.: i760) • Ceiling/Wall Mounting Kit
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Optional Accessories

Part No.: SD.PE-0001-EP	• Indoor 54 VDC 1 Gigabit Passive PoE Injector with Reset Button • No Power Cords/Wires included
Part No.: SD.PE-0016-GS	• Indoor 56 VDC 2.5 Gigabit Passive PoE Injector • No Power Cords/Wires included

Warranty Extension

Part No.: SV.HW-i7602-00	• 2nd Year Extended H/W Warranty for i760
Part No.: SV.HW-i7603-00	• 3rd Year Extended H/W Warranty for i760
Part No.: SV.HW-i7604-00	• 4th Year Extended H/W Warranty for i760
Part No.: SV.HW-i7605-00	• 5th Year Extended H/W Warranty for i760

Annual Technical Support and Warranty Extension

Part No.: SV.AS-0508-01	• 2nd/3rd Year Extended H/W Warranty and Technical Support • Quantity: 1 for the 2nd Year Extended H/W Warranty and Technical Support • Quantity: 2 for the 2nd and 3rd Year Extended H/W Warranty and Technical Support
Part No.: SV.AS-0508-02	• 4th Year Extended H/W Warranty and Technical Support
Part No.: SV.AS-0508-03	• 5th Year Extended H/W Warranty and Technical Support

Contact Us

- Email: sales@altaitechnologies.com or info@altaitechnologies.com

I760-PB-250725

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