

Todaair

Product Specification

INAX50Y-H V3.0



Product Overview

The INAX50Y-H V3.0 is a high-performance, high-speed Wi-Fi 6 (802.11ax) indoor dual-band ceiling-mounted access point. It supports both 2.4GHz and 5.8GHz bands, delivering maximum data rates of up to 574Mbps on 2.4GHz and 2402Mbps on 5GHz. Designed for high-density environments, this AP ensures seamless connectivity and superior wireless performance.

Key Features

- Provides high transmission quality and increased data rates, with a total concurrent throughput of up to 3000Mbps.
- Utilizes the IPQ5018 chipset and supports 160MHz bandwidth, allowing up to 180 simultaneous users.
- Features an advanced heat dissipation system with a specially coated heatsink for improved thermal management.
- Equipped with a high-power external front-end module (FEM) for enhanced wireless coverage, stable connectivity, and long-range transmission.

Product Specification

CPU	IPQ5018 +QCN6102				
Flash	SPI NOR 8MB SPI NAND 128MB				
DDR3	External 512MB*1				
2.4G Operating Frequency	2.4GHz~2.484GHz				
2.4G WIFI Transfer Protocol	802.11 b / g / n / ac / ax				
5G Operating Frequency	5.150GHz ~ 5.825GHz				
5G WIFI Transfer Protocol	802.11 a / n / ac / ax				
Built-in Antenna 2.4G	2*2.4G Antenna, Gain Per Root: 4dBi				
Built-in Antenna 5G	2*5.8G Antenna, Gain Per Root: 4dBi				
Max Speed	2.4G Offers A Max Access Rate of 574Mbps and 5G Offers A Max Access Rate of 2402Mbps				
	802 . 1 1 b	11 M	24 ± 2 d	1 M	24 ± 2 d Bm

RF @25°C±2Db 2.4G			Bm		
	802.11g	54M	21 ± 2 d Bm	6M	23 ± 2 d Bm
	802.11n HT 20	MCS 7	20 ± 2 d Bm	MC S0	22 ± 2 d Bm
	802.11n HT 40	MCS 7	20 ± 2 d Bm	MC S0	22 ± 2 d Bm
	802.11ax HE 20	MCS 11	18 ± 2 d Bm	MC S0	22 ± 2 d Bm
	802.11ax HE 40	MCS 11	18 ± 2 d Bm	MC S0	22 ± 2 d Bm
RF @25°C±2dB 5.8G	802.11a	54M	19 ± 2 d Bm	6M	22 ± 2 d Bm
	802.11n HT 20	MCS 7	18 ± 2 d Bm	MC S0	21 ± 2 d Bm
	802.11n HT 40	MCS 7	18 ± 2 d Bm	MC S0	21 ± 2 d Bm
	802.11ac VHT 20	MCS 9	17 ± 2 d Bm	MC S0	21 ± 2 d Bm
	802.11ac VHT 40	MCS 9	17 ± 2 d Bm	MC S0	21 ± 2 d Bm
	802.11ac VHT 80	MCS 9	17 ± 2 d Bm	MC S0	21 ± 2 d Bm
	802.11ax HE 20	MCS 11	17 ± 2 d Bm	MC	21 ± 2 d Bm

				S0	
	802.11ax HE 40	MCS 11	$17 \pm 2 \text{ dBm}$	MCS0	$21 \pm 2 \text{ dBm}$
	802.11ax HE 80	MCS 11	$17 \pm 2 \text{ dBm}$	MCS0	$21 \pm 2 \text{ dBm}$
	802.11ax HE 160	MCS 11	$17 \pm 2 \text{ dBm}$	MCS0	$21 \pm 2 \text{ dBm}$
Sensitivity 2.4G	802.11b	11M	-85 dBm	1M	-90 dBm
	802.11g	54M	-72 dBm	6M	-90 dBm
	802.11n HT 20	MCS 7	-70 dBm	MCS0	-87 dBm
	802.11n HT 40	MCS 7	-68 dBm	MCS0	-85 dBm
	802.11ax HE 20	MCS 11	-60 dBm	MCS0	-83 dBm
	802.11ax HE 40	MCS 11	-56 dBm	MCS0	-83 dBm
Sensitivity 5.8G	802.11a	54M	-72 dBm	6M	-92 dBm
	802.11n HT 20	MCS 7	-70 dBm	MCS0	-90 dBm
	802.11n HT 40	MCS 7	-68 dBm	MCS0	-88 dBm
	802.11ac VHT 20	MCS 8	-70 dBm	MCS0	-88 dBm
	802.11ac VHT	MCS 9	-68 dBm	MCS0	-88 dBm

	40				
	802 . 11 ac VHT 80	MCS 9	-58 d B m	MC S 0	-8 5 d Bm
	802 . 11 ax HE 20	MCS 11	-62 d B m	MC S 0	-8 8 d Bm
	802 . 11 ax HE 40	MCS 11	-58 d B m	MC S 0	-8 6 d Bm
	802 . 11 ax HE 80	MCS 11	-55 d B m	MC S 0	-8 4 d Bm
	802 . 11 ax HE 160	MCS 11	-51 d B m	MC S 0	-8 2 d Bm
2.4G EVM	802 . 11 b: ≤ -10 dB ; 802 . 11 g: ≤ -25 dB ; 802 . 11 n: ≤ -28 dB; 802 . 11 ax: ≤ -35 dB				
5G EVM	802 . 11 a: ≤ -25 dB ; 802 . 11 n: ≤ -28 dB ; 802 . 11 ac: ≤ -32 dB; 802 . 11 ax: ≤ -35 dB				
ppm	±20ppm				
WAN	1 * 10/100/1000/Adaptive WAN Interface, Support POE 48V Power Supply				
Console	1				
External Key	Reset (Restore the factory default configuration by pressing for 6-10 seconds.)				
Status Indicator	WAN Port Light, LAN Port Light, Tricolour Light (Three Different Colors Represent: sys-Red, 2.4G-Green, 5.8G-Blue)				
Power Supply	DC2.0 12V 1.5A, PoE 802.3at				

Maximum Power Consumption	< 16W
Product Size	186mm × 186mm × 37mm
Weight	0.55kg
Operating Condition	Operating Temperature: -10°C to 55°C Storage Temperature: -40°C to 70°C Humidity: 5%~95%(non-condensed)
ESD	Air Discharge+/-8K, Contact Discharge +/-4K
Surge	Common Mode 2K, Differential Mode 1K

Todaair



Todaair APP