Data Sheet HTAX880-3600

HTAX880 Wi-Fi6 Gigabit 11AX 3600M Wireless Dual Band Ceiling Mount Access Point 2×2 MU-MIMO

Product Appearance:

Product Overview:

HTAX880 is a high-performance 8T8R dual-band 802.11AX indoor ceiling-mounted AP product supporting 48V POE. The maximum bandwidth that can be supported-2.4G is 1200Mbps, 5.8G supports 2400Mbps, and ordinary power is positioned in high-density coverage, multi-user access environment.

Features:

• It has better transmission quality, higher transmission rate, and the maximum concurrent rate can reach 3600Mbps and maximum users supported is 350+.

Using Qualcomm's IPQ8072 4-core CPU+4G DDR3L solution, the data processing of the product is faster and stable.

• Support hardware watchdog function, automatic recovery of abnormal equipment, maintenance-free.

• Elegant appearance design, hidden port shell, beautiful wiring.

• Supports two power supply modes: 48V PoE and DC 12V.

The radio frequency adopts SKYWORKS ordinary power PA and FEM, which is suitable for high density. Multi-user environment

Indoor wireless AP is based on the latest Wi-Fi 6 standard supports 2×2 MU-MIMO technology, OFDMA space division multiplexing technology and 1024QAM modulation and demodulation algorithm.

Performance improvement of 802.11ax compared with 802.11ac

Wi-Fi6 (802.11ax) is a new generation of Wi-Fi standard based on existing wireless standard, to solve the growing demand for high bandwidth, multi-user, high-speed and low latency internet access request.

High Bandwidth

Wi-Fi 5   Wi-Fi 6

High Multi-user

Wi-Fi 5   Wi-Fi 6

Wide Coverage

Wi-Fi 5   Wi-Fi 6

Low Latency

Wi-Fi 5   Wi-Fi 6

Devices connected
to the 5G frequency band

New equipment detected
(priority access to 5G frequency band)

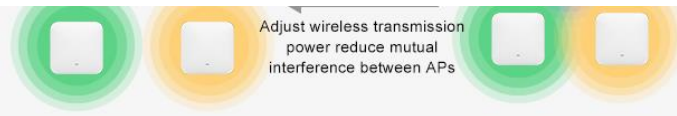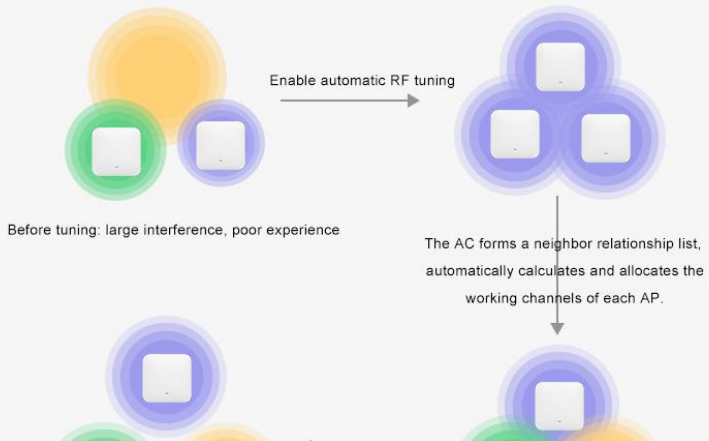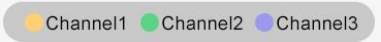Devices connected
to the 2.4G frequency band

If the 5G signal strength is higher than the Internet experience threshold value
and the 5G frequency band is always low in load, it is guided to preferentially
access the 5G frequency band to ensure the Internet experience, and the dual-band
load is more balanced.

Adjust wireless transmission
power reduce mutual
interference between APs

After tuning: Little interference, good experience

Automatic channel tuning

optimize the overall performance of the wireless network

Supports automatic radio frequency tuning, automatically calculates
the adjacent relationship between APs in the network,and automatically
adjusts the wireless transmission power and channel according to the
real-time interference and load conditions of nearby devices to ensure
that the overall wireless network is always in a high-speed,
high-performance operating state .

● Channel1 ● Channel2 ● Channel3

Enable automatic RF tuning

Before tuning: large interference, poor experience

The AC forms a neighbor relationship list,
automatically calculates and allocates the
working channels of each AP.

Gigabit port, faster transmission
Smoother surfing experience

Adopting gigabit port design, greatly improving the wired
transmission rate, easily coping with high-spec optical fiber
broadband access, providing a more stable and smooth
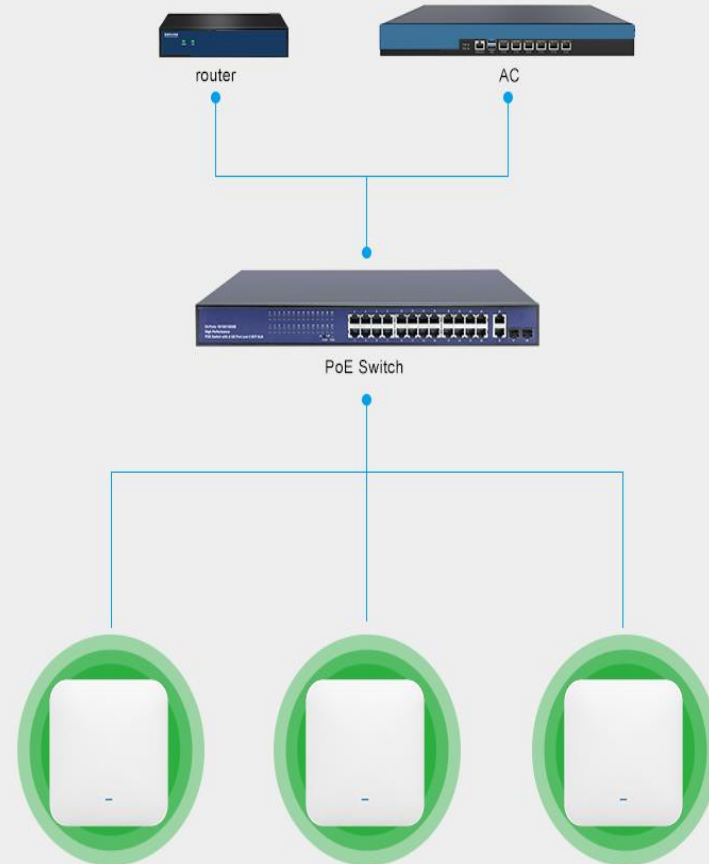Internet experience.

AP coverage area; reduce co-channel interference and improve transmission performance.

Support two power supply modes
standard POE and 12V DC

Standard POE power supply

It adopts standard POE power supply, no external power supply is needed, and each AP only needs one network cable, which is convenient for construction.

router   AC

PoE Switch

Main Features

■ Superior performance

The HTAX880-3600 wireless access point complies with the new generation Wi-Fi6 protocol standard and is backward compatible with 802.11a/b/g/n/ac/Wave2. Support MU-MIMO, Wi-Fi6 5G, a single spatial stream rate of 1200Mbps, allowing the AP to receive data sent by multiple terminals at the same time. 2.4G radio frequency 0.600Gbps, 5G radio frequency up to 2.4Gbps

■ Uplink gigabit link

It has two 10/100/1000/2500M Base-T Ethernet ports, and both uplink and downlink use gigabit speeds, which breaks through the traditional 100M speed limit, making wired ports no longer a bottleneck for wireless access.

■ Intelligent authentication management

The HTAX880-3600 cooperates with the HT wireless controller to support different authentication schemes based on SSID. The authentication methods include: authentication-free, one-key authentication, WeChat authentication, WeChat, WiFi authentication, SMS authentication, key authentication, built-in account authentication, radius authentication, Identity card authentication, external server authentication, billing certification. A wealth of authentication strategies to meet the needs of a variety of user authentication

■ Intelligent seamless roaming and load balancing

Wireless user association HTAX880-3600, in the wireless signal coverage within the mobile, you can ensure seamless roaming in the two-tier network, and the user in the process of roaming network business is not interrupted. At the same time HTAX880-3600support based on the number of users and frequency-based load balancing, when the HT wireless controller found that the AP load exceeds the threshold, if a new user access, HT wireless controller automatically calculated according to the current wireless network environment, the user then into the lighter load AP

Link aware, intelligent switching

HTAX880-3600 support Fat / Fit two modes of operation, according to the current network conditions for intelligent switching. Which can achieve the traditional "Fit AP + AC" centralized network architecture, when the HT wireless controller failure occurs, HTAX880-3600 also through the HT private protocol, rapid perception of abnormal, intelligent switch to Fat mode, to continue the data forwarding.

Local forwarding

HTAX880-3600 combined with HT wireless controller, can open the local forwarding mode, greatly reducing the wireless controller forwarding traffic, ease the flow pressure, abnormal controller in the case of wireless controller does not affect the normal communication of wireless networks.

plug and play

HTAX880-3600 work in Fit mode, in the field installation and post-maintenance, AP no need to reconfigure, HT wireless controller quickly find access to the new AP, AP start within 3 seconds to complete the template configuration, convenient and quick. HT wireless controller can be a key release configuration, AP batch synchronization configuration, greatly reducing the installation, operation and maintenance costs.

Intelligent RF management

The HTAX880-3600 provides automatic power and channel adjustment. Through the exclusive RF detection and RF management algorithm to optimize the RF coverage effect when the AP signal is subject to external strong signal interference, through the control AP automatically switch to the appropriate working channel to avoid interference signals, reduce the interference with the adjacent.

Product Specifications

Product Information	
Product Model	**HTAX880-3600**
Hardware specifications	
Fixed port	2*10/100/1000/2500M Base-TX port
Maximum Data Rate	3600Mbps
Maximum Users	350+
Max RF Transmit Power	20dBm
Flash	SPI NOR 16MB
SDRAM	256MB
Internal Antennas	Built-in 4 intelligent omnidirectional antenna (gain 4dBi)
Operating frequency band	802.11b/g/n: 2.4 GHz to 2.483 GHz (China) 802.11ac/a/n: 5.15GHz~5.35GHz,5.725 GHz to 5.850 GHz (China)
Power Consumption	<22W
Dimensions	198mm×198mm×41mm
PoE	802.3af/802.3at power supply supported
Local power supply	12V/1.5A
Buttons	1*RESET
Operating/storage temperature	-10°C~50°C/-35°C~70°C
Operating humidity	5%~95%(non-condensing)
Ingress Protection	IP31

Rating	
MTBF	>8000H
Software specifications	
System Status	Support AP model, the name of information display, AP run time display, IP, MAC information display, SSID, encryption, security mode display, working mode display
LAN port settings	Support LAN port IP automatic acquisition and manual configuration
VLANs	802.1Q, 4094 VLAN IDs (1 to 4094) and SSID-based VLAN assignment
Blacklist and whitelist	Static whitelist and blacklist are supported
RF control	Support radio frequency to turn on or off
Wireless Mode	11b,11g,11b/g,11b/g/n,11n,11a,11a/n,11ac,11ax
BSSIDs	16
Broadcast Storm Suppression	Supported
SSID Hiding	Supported
User Isolation	Supported
Automatic channel control	Supported
Automatic power adjustment	Supported
Clients Limit	Connected user number limitation for every SSID
Bandwidth restriction	STA- or SSID-based rate limiting is supported from AP Controller
Wireless Security	64/128 WPA-PSK,WPA2-PSK,WPA,WPA2
Authentication mode	Authentication-free, one-key authentication, WeChat authentication, SMS authentication, key authentication, built-in account authentication, Radius authentication, and external server authentication.

Forwarding mode	Local forwarding and centralized forwarding
Fat/Fit Mode	Supported
Advanced Settings	Beacon Interval, RTS Threshold, Data Beacon Rate (DTIM),Long/Short Preamble, Short GI, A-MPDU,A-MSDU,WMM
management	Telnet, HTTP, AP Controller
Access Control	Connect limitation based on mac address
Client Association Status	Supported
Username Management	Supported from Web UI or AP Controller
Firmware Upgrade	Supported from Web UI or AP Controller
Backup & Restore	Supported
Reset/Reboot Device	Supported from Web UI or AP Controller
System Log	Supported
Reboot Schedule	Supported