

WA3130i

**Indoor 802.11ac Wave2 MU-MIMO
Dual Band Ceiling Access Point**

Data Sheet

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Overview

The WA3130i is a dual-band wireless access point (AP) that supports the 11ac wave2 standard for user-intensive applications such as hotels, restaurants, entertainment venues, convention centers, and more. Support 802.11a / b / g / n / ac protocol, and work in the 2.4GHz and 5GHz band, the maximum access rate of up to 1267Mbps, to provide a higher number of access users, the use of MU-MIMO technology will bring greater Access to the number of users, higher throughput, providing a better Internet experience. Built-in custom development of the omnidirectional high-gain antenna, can provide a wider coverage, more reliable and reliable wireless signal access, very suitable for user-intensive scene access to use.

The WA3130i supports FAT and FIT AP modes and can be flexibly selected as needed. Allowing easy upgrades to large networks, fully protecting the user's investment costs. In the hotel scene, the deployment of a large number of AP, it can also be centrally managed by the TG wireless controller. The solution supports seamless roaming, centralized AP management and quick troubleshooting.

Product Appearance



Product Features and highlights

- **multi-user concurrent**

The WA3130i utilizes a new generation of 11ac wave2 standard protocols to provide higher throughput and high load capability to quickly improve multiuser concurrent performance. 11ac wave2 standard protocol to bring MU-MIMO technology at the same time for multi-user data access services, which greatly enhance the number of device access.

- **Intelligent authentication management**

The WA3130i cooperates with the TG 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 WA3130i, 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 WA3130i support based on the number of users and frequency-based load balancing, when the TG wireless controller found that the AP load exceeds the threshold, if a new user access, TG wireless controller automatically calculated according to the current wireless network environment, the user then into the lighter load AP

- **Link aware, intelligent switching**

WA3130i 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 TG wireless controller failure occurs, WA3130i also through the TG private protocol, rapid perception of abnormal, intelligent switch to Fat mode, to continue the data forwarding.

- **Local forwarding**

WA3130i combined with TG 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**

WA3130i work in Fit mode, in the field installation and post-maintenance, AP no need to reconfigure, TG wireless controller quickly find access to

the new AP, AP start within 3 seconds to complete the template configuration, convenient and quick. TG wireless controller can be a key release configuration, AP batch synchronization configuration, greatly reducing the installation, operation and maintenance costs.

■ Intelligent RF management

The WA3130i 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.

■ energy conservation and environment protection

The low power consumption and high performance design, RF radiation indicators. MIMO supports dynamic power saving mode (DMPS) and automatic power save delivery (APSD), intelligent identification terminal actual performance requirements, reasonable allocation of terminal dormancy queue, bidirectional power between AP and dynamic adjustment of the client, in order to reduce the equipment energy consumption.

Product Specifications

Specification			
Item	Description		
Fixed port	1 x 10/100/1000M self-adaptive Ethernet interface (RJ45), 1 x Management console port (RJ45)		
Maximum Data Rate	1267Mbps		
Max Rf Transmit Power	22dBm		
Internal Antennas	Built-in 4 intelligent omnidirectional antenna (gain 3dBi)		
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	<18W		
Dimensions	210*210*35mm		
PoE	802.3at PD		
Local power supply	48V/0.5A		
Buttons	1*RESET		
Modulation technology	OFDM : BPSK@6/9Mbps, QPSK@12/18Mbps, 16-QAM@24Mbps, 64-QAM@48/54Mbps DSSS : DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MIMO-OFDM : BPSK, QPSK, 16QAM, 64QAM,256QAM		
2.4G Receiver Sensitivity	802.11n	802.11g	802.11b
	-93dBm@MCS 6.5M	-93dBm@6Mbps	-93dBm@11Mbps

	-73dBm@MCS7 65M	-76dBm@54Mbps	
	-70dBm@MCS7 135M		
5G Receiver Sensitivity	802.11ac	802.11an	802.11a
	-89dBm@MCS0	-92dBm@MCS0	-92dBm@6Mbps
	-63dBm@MCS9	-76dBm@MCS7 65M	-76dBm@54Mbs
		-70dBm@MCS7 135M	
Operating/storage temperature	-10° C~50° C/-35° C~70° C		
Operating humidity	5%~95%(non-condensing)		
Ingress Protection Rating	IP31		
MTBF	>8000H		

Service Features

Software	
Item	Description
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

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Wireless Mode	11b,11g,11b/g,11b/g/n,11n,11a,11a/n,11ac
BSSIDs	4
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, WeChat WiFi authentication, SMS authentication, key authentication, built-in account authentication, radius authentication (China)
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

Ordering Information

Items	Product Description
WA3130i	Indoor 802.11ac wave2 Dual Band Access Point,802.11a/n/ac+802.11b/g/n, Built in antenna