

WA3130i

Ceiling 802.11ac wave2 wireless Access point

Data Sheet

TG-NET Botone Technology Co., Ltd

Overview

The WA3130i is a top-class 802.11ac access point for supporting the latest 802.11ac Wave 2 standard and 2X2 MU-MIMO. The WA3130i offer access rates up to 1.3Gbps, and equip with high-quality high-pass chip. The wa3130i, which operates in the 2.4GHz and 5GHz bands, uses optimized radio frequency transmission technology while supporting 2X2 MU-MIMO to make the access user 3 times the traditional AP, effectively improving the utilization of spectrum resources. The WA3130i has four built-in omnidirectional gain 4dBi antennas that provide a wider range of coverage, more robust and reliable wireless signal quality. The WA3130i is ideal for user-intensive scenes such as hotels, restaurants, entertainment venues, convention centers, schools, offices, etc.

The WA3130i has a wealth of RF, mobile, security and management features that can be flexibly selected according to different needs Fat or Fit work mode, independent network or with million network Broadcom multi-service cloud intelligent management platform to provide high-performance wireless network coverage. Teaming up with Multi - service cloud intelligent management platform, The WA3130i offer Wi-Fi user data forwarding, advanced security and access control with ease.

Product Appearance



Product Features and highlights

■ High performance

The WA3130i features a multi-core architecture-based professional Qualcomm network processor with the latest 11ac wave2 protocol standard to support MU-MIMO technology, access to users is three times the traditional AP. 5GHz band using a new generation of WiFi wireless standard 802.11ac wave2 protocol, the highest access rate of 1.3Gbps machine, excellent performance to meet the needs of users of high-speed Gigabit.

■ Dual link backup

The WA3130i using two professional Gigabit WAN port dual-link backup design, easy link redundancy backup, a WAN port out of the fault, another WAN port can also be smart switch, will not affect the normal use of the user, so as to Customers provide the best user experience online.

■ POE power supply backup

The WA3130i dual POE power supply backup design, easy to achieve redundant power supply interface backup, a POE port out of the fault, another POE port immediately smart switch to reduce the single-port power supply failure caused by the normal use of the equipment to protect the normal equipment Stable operation.

■ MU-MIMO

The WA3130i supports MU-MIMO technology and can send information to multiple terminals at the same time. MU-MIMO is the milestone technology of 802.11ac wave2, which can provide higher throughput while greatly improving the number of access users.

■ 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

The 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

The 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

The 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
Service ports	2 x 10/100/1000M self-adaptive Ethernet interface (RJ45)
Maximum Data Rate	1.3Gbps
Max Transmit Power	20dBm
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	<18W
Dimensions	210*210*35mm
PoE	802.3af/802.3at power supply supported
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	802.11b: -93dBm@11Mbps 802.11g: -93dBm@6Mbps、-76dBm@54Mbps 802.11n: -93dBm@MCS 6.5M、-73dBm@MCS7 65M、-70dBm@MCS7 135M
5G Receiver Sensitivity	802.11ac: -89dBm@MCS0、-63dBm@MCS9 802.11an: -92dBm@MCS0、-76dBm@MCS7 65M、-70dBm@MCS7 135M 802.11a: -92dBm@6Mbps、-76dBm@54Mbps

Address: Bldg.E3,Int'l E-City,#1001 Zhongshanyuan Rd.,Nanshan District,Shenzhen, China
 Website: www.tg-net.net Tel: +86-755- 86963766 Fax:+86-755- 86963733

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
Wireless Mode	11b,11g,11b/g,11b/g/n,11n,11a,11a/n,11ac wave2
BSSIDs	4
Broadcast Storm Suppression	Support
SSID Hiding	Support
User Isolation	Support
Automatic channel control	Support
Automatic power adjustment	Support
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	Support
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	Support
Username Management	Supported from Web UI or AP Controller
Firmware Upgrade	Supported from Web UI or AP Controller
Backup & Restore	Support
Cloud management	Support
Reset/Reboot Device	Supported from Web UI or AP Controller
System Log	Support
Reboot Schedule	Support

Ordering Information

Items	Product Description
WA3130i	Ceiling 802.11ac wave2 wireless access point, support 802.11a / n / ac wave2 + 802.11b / g / n, 2 x 2 MU-MIMO, built-in antenna

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 Website: www.tg-net.net Tel: +86-755- 86963766 Fax:+86-755- 86963733

Contact us



Shenzhen TG-NET Botone Technology CO. Ltd

Email: sales@tg-net.net

Tel: +86-755-86963766

Fax: +86-755-86963733

Headquarter: 4F, Building E3, #1001, Zhongshanyuan Road,
Nanshan District, Shenzhen City, Guangdong Province, China