

**WA2305**

**Ceiling Enhanced Access Point**

**Data Sheet**

**Shenzhen TG Botone Technology Co., Ltd**

## Overview

WA2305 high-performance ceiling enhanced access point to meet the hotel, catering, entertainment wireless access business needs, equipped with high-quality industry Qualcomm chip, support 802.11b / g / n protocol, while working in the 2.4GHz band, RF power 27dBm, built-in million Netcom custom development of the omni-directional high-gain antenna, can provide greater wireless coverage, more powerful signal penetration, very suitable for wireless signal attenuation large application scenarios.

## Product Appearance



## Product Features and highlights

### ■ High performance

The WA2305 features a high-throughput, high-throughput and high-load capability based on a multi-core architecture. Indoor wireless access point also uses the industry's latest hardware encryption and decryption technology, greatly improving the encryption and decryption processing capacity. Exceptional performance enables wireless access points to meet user performance requirements.

### ■ Super signal, covering a wide range

TG WA2305 supports Fat and Fit modes, which can flexibly switch between the two according to your network planning, and specify its shipping mode. The WA2305 features a high-performance external amplifier (PA), a built-in high gain omnidirectional antenna with advanced resistance to adjacent areas and bi-directional adaptive auto-modulation capability. The signal is stronger and has a wider coverage, Transmission efficiency is higher, the live measured data indoor effective coverage radius of up to 50-80m.

### ■ Power linear adjustable

WA2305 transmit power linear adjustable, according to the application environment, a reasonable adjustment of transmission power. Increase the AP transmission power and enhance the wireless coverage effect; reduce the AP transmission power, reduce the interference between the AP and improve the wireless stability in the environment with high density coverage in the environment where the wall is more and the signal is attenuated.

### ■ Intelligent RF management

The WAWA2305 wireless access point provides automatic 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 signal to ensure the smooth flow of WLAN communication.

### ■ **Local forwarding**

The WAWA2305 combines the multi-service cloud intelligent management platform to enable the local forwarding mode, which greatly reduces the forwarding traffic of the multi-service cloud intelligent management platform and alleviates the traffic pressure. In the case of the multi-service cloud intelligent management platform, Affecting the normal communication of the wireless network.

### ■ **Intelligent certification management**

WAWA2305 with multi-service cloud intelligent management platform can be achieved based on SSID support different authentication combination strategy, Certification, including certification: certification, a key authentication, WeChat authentication, WeChat with WiFi certification, SMS authentication, key authentication, built-in account authentication, Radius certification, ID card authentication, external server authentication, billing certification. A wealth of authentication strategies to meet the needs of a variety of user authentication

### ■ **Smart seamless roaming and load balancing**

Wireless user association WAWA2305, 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. The WAWA2305 supports the load balancing based on the number of users. When the multi-service cloud intelligent management platform finds that the load of the AP exceeds the threshold, if the new user accesses, the multi-service cloud intelligent management platform automatically calculates the AP according to the current wireless network environment. Into the lighter load AP.

Product Specifications

Specification	
Item	Description
Fixed port	2 10 / 100M Ethernet ports (RJ45)
Maximum Data Rate	300Mbps
Max Rf Transmit Power	27dBm
Internal Antennas	Built-in 2 2 * 2 intelligent omnidirectional antenna (gain 5dBi)
Operating frequency band	802.11b/g/n: 2.4 GHz to 2.483 GHz (China)
Power Consumption	<5W
Dimensions	220mm×220mm×45mm
PoE	802.3af/802.3at power supply supported
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
Receiver Sensitivity	802.11b: -96dBm@1Mbps 802.11g: -86dBm@6Mbps、-76dBm@54Mbps 802.11n: -86dBm@MCS0、-71dBm@MCS7
Operating/storage temperature	-10°C~50°C/-35°C~75°C
Operating humidity	5%~90%(non-condensing)

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Ingress Protection Rating	IP31
MTBF	>8000H

**Service Features**

Software	
Item	Description
System Status	AP Model, AP Name, Up Time, IP&MAC Address, SSID Encryption
VLANs	802.1Q, 4094 VLAN IDs (1 to 4094) and SSID-based VLAN assignment
Blacklist and whitelist	Static whitelist and blacklist are supported
Wireless Mode	11b,11g,11b/g,11b/g/n,11n
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,

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	radius authentication (China)
Local Forward	Supported
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
WA2305	High-performance ceiling-enhanced access point, 802.11b / g / n, 2 x 2 MIMO, built-in antenna

Contact us



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