

**WA5120i**

**Outdoor 802.11ac Dual Band Access Point**

**Data Sheet**

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

## Overview

TG WA5120i is the latest generation of Outdoor 802.11ac Dual Band Access Point, features 2\*2 MIMO technology, supports simultaneous dual band in 2.4 and 5GHz for 1167Mbps wireless speeds, Gigabit Ethernet port ensures high speed Internet access. TG WA5120i is compact, aesthetically pleasing, and can either be mounted on walls or ceilings.

TG WA5120i is well suited for mall, hotel, company and the other ultra-high density environments.

## Product Appearance



## Product Features and highlights

### ■ Industrial-Class Hardware Design

TG WA5120i adopts high-power amplifiers, professional antennas, and professionally designed RF shields ensure excellent wireless performance. Enterprise-class chipsets offer outstanding performance and support longer running time, higher client capacity, and wider range.

### ■ Dual Fat/Fit mode

TG WA5120i supports Fat and Fit modes, which can flexibly switch between the two according to your network planning, and specify its shipping mode.

Users can start small, acquire the corresponding network equipment and set it to Fat mode. As the number of users grows which tens and hundreds of network devices are installed, the user is recommended to add more TG Box to simplify network management and centrally manage all wall plate series AP. All the users need to do is to switch the APs to fit mode.

### ■ VLAN For multi SSID

TG WA5120i can be configured to broadcast up to 4 SSIDs. Each SSID can be tagged to a specified network VLAN to establish different internet access rights.

Product Specifications

| Specification                 |  |
|-------------------------------|--|
| Item                          | Description  |
| Fixed port                    | 1 10/100/1000M Port,1 Console Port (USB)   |
| Maximum Data Rate             | 1167Mbps   |
| Internal Antennas             | 2.4G 11dBi antenna sector 65 °<br>5G 13dBi antenna sector 90 °   |
| Max Rf Transmit Power         | 27dBm  |
| Internal Directional Antennas | 14dBi  |
| Operating frequency band      | 802.11b/g/n: 2.4GHz~2.483GHz<br>802.11ac/n/a: 5.15GHz~5.35GHz,5.725GHz~5.850GHz  |
| Power Consumption             | <21W   |
| Dimensions                    | 239mm×195mm×83mm   |
| PoE                           | 802.3at/af power supply supported  |
| Buttons                       | 1*Reset  |
| Modulation technology         | OFDM:BPSK@6/9Mbps,QPSK@12/18Mbps,16-QAM@24Mbps,64-QAM@48/54Mbps<br>DSSS:DBPSK@1Mbps,DQPSK@2Mbps,CCK@5.5/11Mbps<br>MIMO-OFDM: BPSK,QPSK,16QAM and 64QAM |
| Receiver Sensitivity          | 802.11b: -91dBm@1Mbps、-85dBm@11Mbps<br>802.11g: -90dBm@6Mbps、-72dBm@54Mbps   |

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

|                               |   |
|-------------------------------|---|
|                               | 802.11n: -86dBm@MCS0、-73dBm/-68dBm@MCS7、-88dBm/-86dBm@MCS8、-64dBm@MCS15 |
|                               | 802.11a: -90dBm@6Mbps、-72dBm@54Mbps                                     |
|                               | 802.11ac: -85dBm@MCS0、-60dBm@MCS9                                       |
| Operating/storage temperature | -40° C~65° C/-40° C~85° C   |
| Operating humidity            | 0%~100%(non-condensing)   |
| Wind Resistance               | 165 Miles/h   |
| Protection Rate               | IP67  |
| MTBF                          | >250000   |

### 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                     |
| BSSIDs                      | 4  |
| Broadcast Storm Suppression | Supported  |
| SSID Hiding                 | Supported  |
| User Isolation              | Supported  |
| Automatic channel control   | Supported  |
| Automatic power adjustment  | Supported  |

|                                  |   |
|----------------------------------|---|
| <b>Clients Limit</b>             | <b>Connected user number limitation for every SSID</b>  |
| <b>Bandwidth restriction</b>     | <b>STA- or SSID-based rate limiting is supported from AP Controller</b>   |
| <b>Wireless Security</b>         | <b>64/128 WPA-PSK, WPA2-PSK, WPA, WPA2</b>  |
| <b>Authentication mode</b>       | <b>Authentication-free, one-key authentication, WeChat authentication, WeChat WiFi authentication, SMS authentication, key authentication, built-in account authentication, radius authentication (China)</b> |
| <b>Local Forward</b>             | <b>Supported</b>  |
| <b>Fat/Fit Mode</b>              | <b>Supported</b>  |
| <b>Advanced Settings</b>         | <b>Beacon Interval、RTS Threshold、Data Beacon Rate (DTIM)、Long/Short Preamble、Short Gi、A-MPDU、A-MSDU、WMM</b>   |
| <b>management</b>                | <b>Telnet、HTTP、AP Controller</b>  |
| <b>Access Control</b>            | <b>Connect limitation based on mac address</b>  |
| <b>Client Association Status</b> | <b>Support</b>  |
| <b>Username Management</b>       | <b>Support from Web UI or AP Controller</b>   |
| <b>Firmware Upgrade</b>          | <b>Support from Web UI or AP Controller</b>   |
| <b>Backup &amp; Restore</b>      | <b>Supported</b>  |
| <b>Reset/Reboot Device</b>       | <b>Support from Web UI or AP Controller</b>   |
| <b>System Log</b>                | <b>Supported</b>  |
| <b>Reboot Schedule</b>           | <b>Supported</b>  |

### Ordering Information

| Items   | Product Description   |
|---------|---|
| WA5120i | Outdoor 802.11ac Dual Band Access Point, 802.11a/n/ac+802.11b/g/n, 2x2 MIMO |

## Contact us



Shenzhen TG Botone Technology CO. Ltd

Email: [sales@tg-net.net](mailto: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