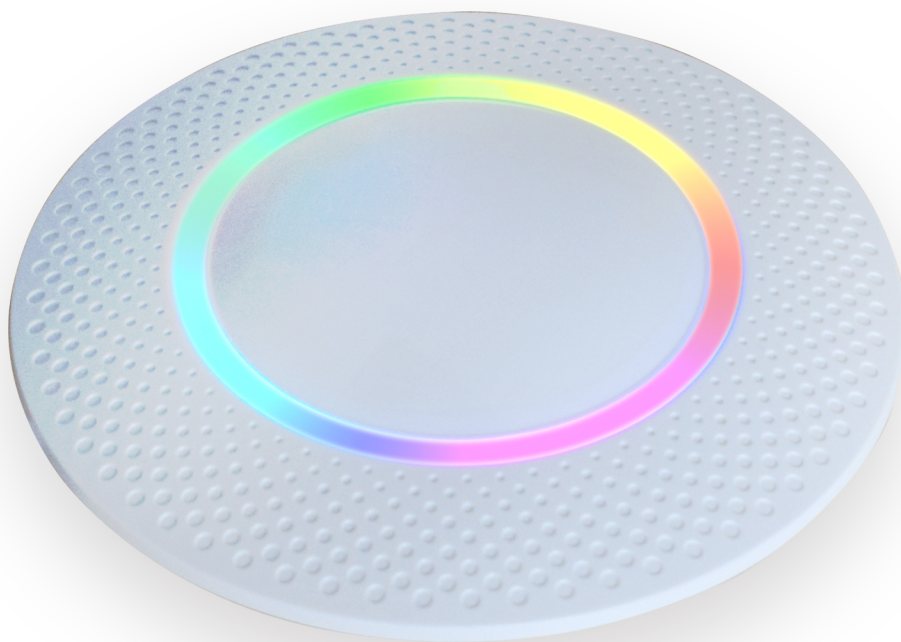


Configuration Guide

Model: G1

Version: V1.01



Overview-----	1
Deploy by using AP Mode-----	1
Change Password -----	2
Network Connection -----	3
Router Connection -----	4
Repeater Connection-----	5
3G/4G Connection -----	6
Firmware Upgrade-----	6
1. USB -----	6
2. OTA-----	7
3. Customization -----	7
Device Reset & Reboot -----	8
Colorful LED String Setting -----	8

Overview

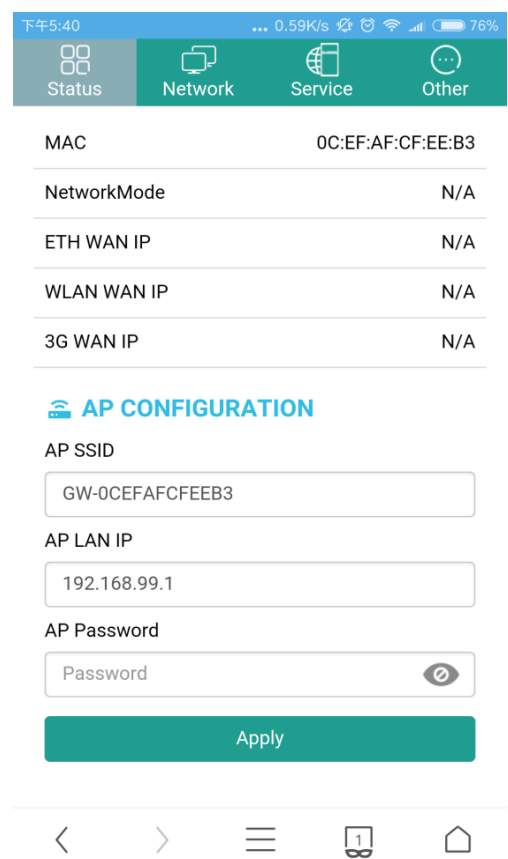
G1 BLE & WiFi gateway achieves device configuration through AP mode and providing a simple WEB configuration interface. G1 can support connection of 100 devices in maximum.

Deploy by using AP Mode

AP mode is only applicable to gateway configuration without influencing the networking method that current gateway is used as client.

AP mode provides WIFI hotspot with SSID name of “GW-XXXXXXXXXXXX”, where XXXXXXXXXXXXX is hexadecimal capital character corresponding to MAC address. Users may scan and connect via computer or cell phone. In default, no password is needed for connecting this WIFI. For the sake of access control, it is available to modify AP SSID name in WEB configuration interface with setting IP address into the format of 192.168.X.1 (segment of gateway subnet shall not be the same as segment of network switched in route), and then set WIFI connecting password.

After connecting gateway WIFI, please open the link <http://192.168.99.1> through computer or cell phone to access configuration interface (see picture below).



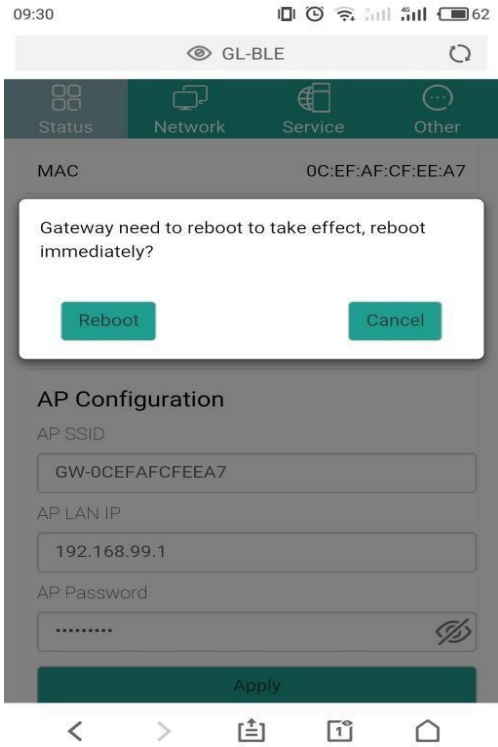
The detailed description of interface fields is as follows:

Field	Name	Description
MAC	Gateway MAC	Hexadecimal capital character of gateway MAC address
Network Mode	Network Mode	Displays the modes of networking, including router, repeater and 3g; displays N/A when disconnected
ETH WAN IP	IP address of Ethernet outer network	IP acquired when connecting client to Ethernet; displays N/A when disconnected
WLAN WAN IP	IP address of WLAN outer network	IP acquired when connecting client to WLAN; displays N/A when disconnected
3G WAN IP	IP address of 3G outer network	IP acquired when connecting client to 3G; displays N/A when disconnected
AP SSID	AP SSID	SSID of AP mode for configuration
AP LAN IP	IP address of AP intranet	IP of AP mode for configuration, the default is 192.168.99.1
AP Password	AP Password	Connecting password of AP mode for configuration

* If IP: 192.168.X.1, X is the same, it means the same segment of network; otherwise is different segment

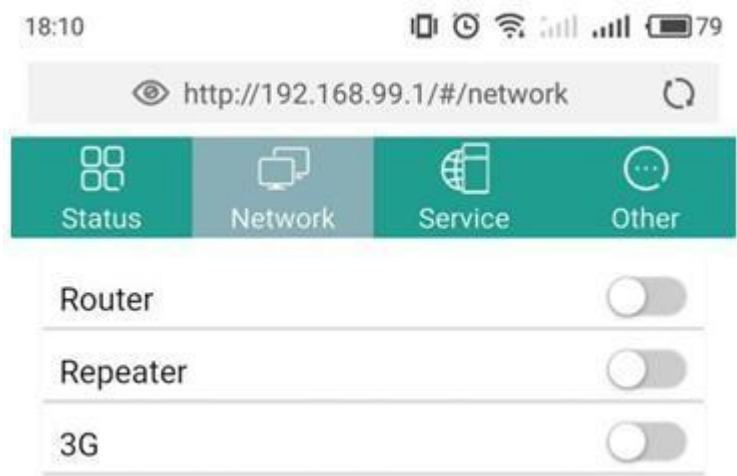
Change Password

In the AP setting column in gateway WEB configuration interface, users may set the connecting password in AP mode (see picture above). It will ask whether to restart gateway after clicking “Apply” button (see picture below), the gateway will apply the configuration after restarting.



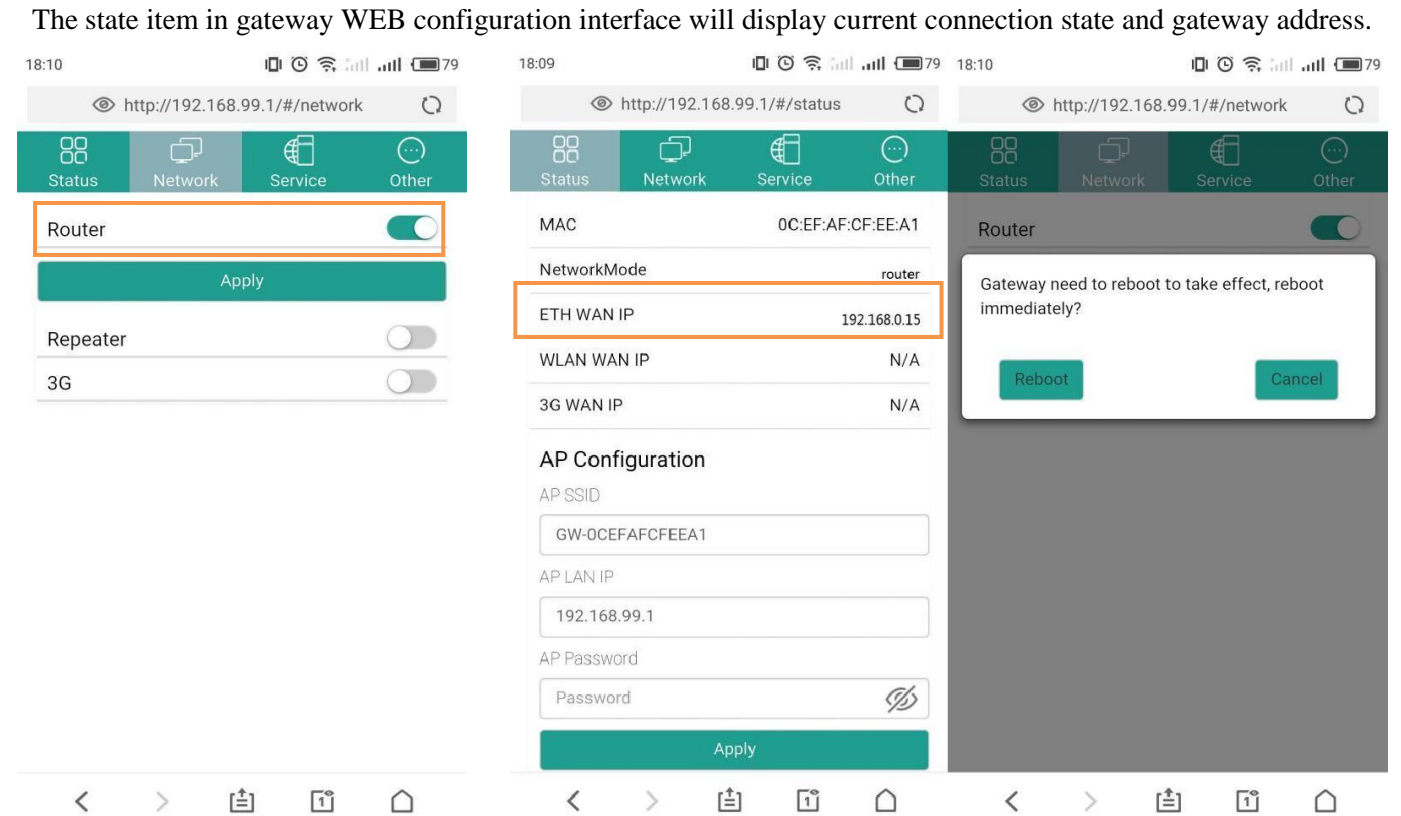
Network Connection

G1 BLE gateway realizes network connection through three methods (router, repeater, 3G) as shown in following picture.



Router Connection

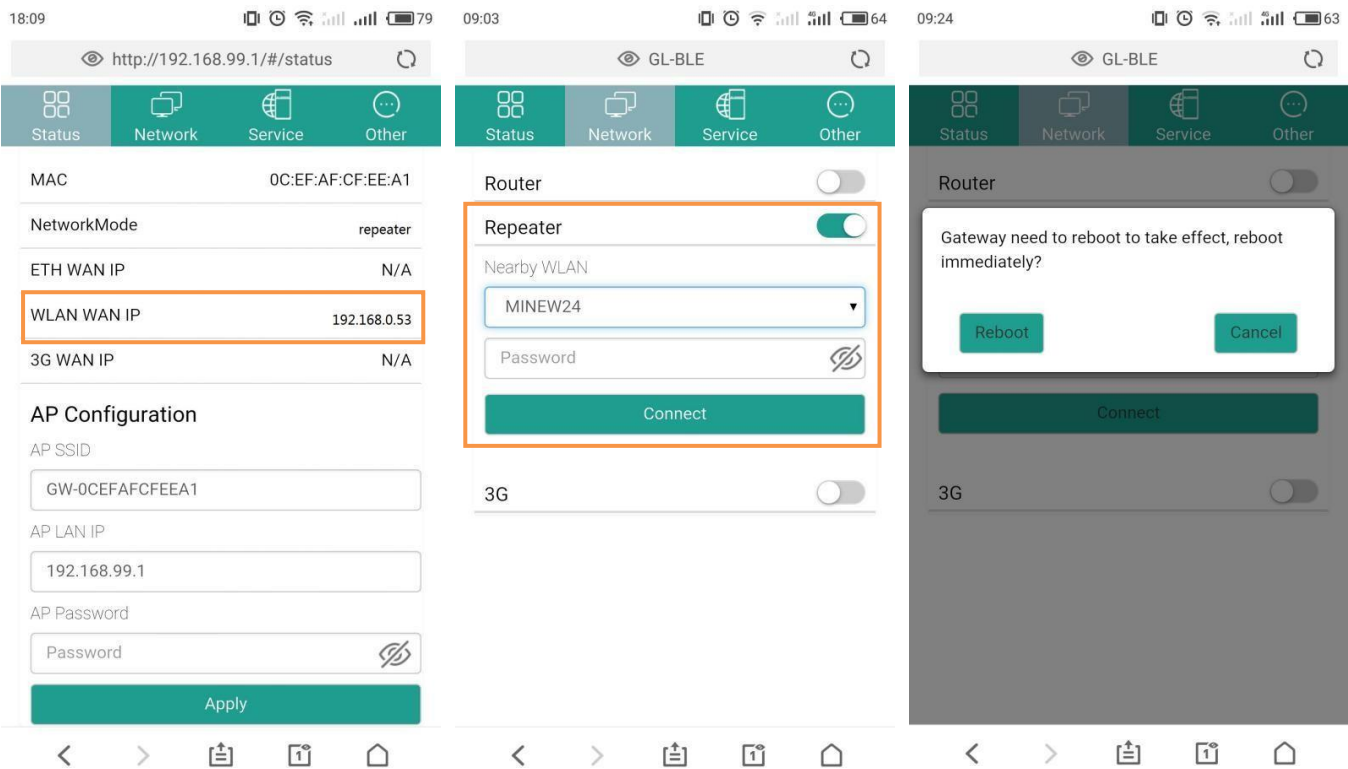
G1 BLE gateway can also connect to Ethernet directly to realize data communication with server. It will ask whether to restart gateway after licking “Apply” button in Router setting column as shown in gateway configuration interface, the network setting will take effect after restarting gateway. You may click “Cancel” to restart manually later, or click “Reboot” to restart gateway immediately. G1 BLE gateway connects to superior router reticle; after restarting, it automatically acquires IP address from superior router through DHCP protocol, so as to connect network. See picture below.



Repeater Connection

G1 BLE gateway can be connected to WLAN AP as WLAN client to realize the data communication with server. In the Repeater setting column of gateway configuration interface, select the WLAN SSID to be connected to gateway from instantly undated peripheral WLAN list and fill in the password, then click “Connect” (see picture below).

It will ask whether to restart gateway and the network setting takes effect after restarting. You may click “Cancel” to restart manually later, or click “Reboot” to restart gateway immediately. It will connect to designated WLAN upon finishing restarting gateway. If has connected to designated WLAN, the state item will display the IP of WLAN connected; otherwise, it displays N/A.



The detailed description of interface fields is as follows:

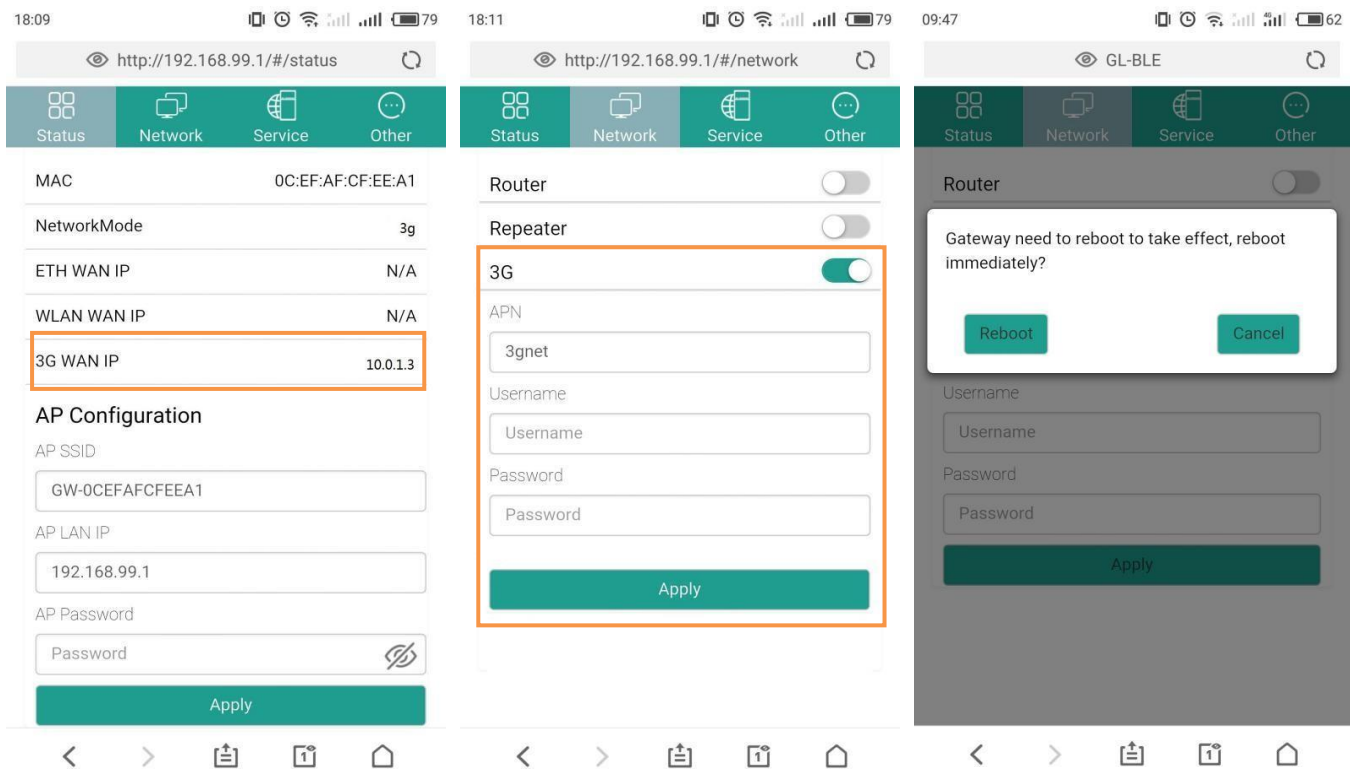
Field	Name	Description
Nearby WLAN	Applicable WLAN nearby	Automatically acquire applicable WLAN SSID nearby as client
WLAN Password	Password for connecting WLAN	Password for connecting designated WLAN

3G/4G Connection

This connection method is not ready on the G1-B model; it only works on G1-E model.

G1 BLE gateway can also apply optional built-in 3G WCDMA / 4G module to realize data communication with server. The 3G connection column in gateway WEB configuration interface will display current connection state; meanwhile, users may set the parameters such as APN (see picture below). After licking “Apply” button, it will ask

whether to restart gateway and the network setting takes effect after restarting. You may click “Cancel” to restart manually later, or click “Reboot” to restart gateway immediately. The gateway will connect to network automatically through 3G dial-up connection.



The detailed description of interface fields is as follows:

Field	Name	Description
APN	APN	Please set according to accessed operator’s parameter
Username	User Name	Please set according to accessed operator’s parameter
Password	Password	Please set according to accessed operator’s parameter

Firmware Upgrade

BLE gateway G1 provides 3 different ways to upgrade the firmware, USB, OTA and Customization.

1. USB

Rename the firmware to “thingoo-upgrade.bin”, then copy thingoo-upgrade.bin to the root directory of USB-Stick, and last, insert the USB-Stick into gateway device, choose “USB Upgrade” from Upgrade Type list in Others of Web interface, and then click “Upgrade” and “OK” to confirm your upgrade.

If the colorful LED on the top of gateway is turned off, this indicated that the upgrade is running.

Do not cut off the power supply in the process of upgrade, after about 2 minutes; if the LED on the top of gateway is turned on, which indicates that the upgrade is done successfully.

2. OTA

After gateway connected with external network, choose “Air Upgrade” from Upgrade Type list in Others of Web interface, and then click “Upgrade” and “OK” to confirm your upgrade.

If the colorful LED on the top of gateway is turned off, this indicated that the upgrade is running.

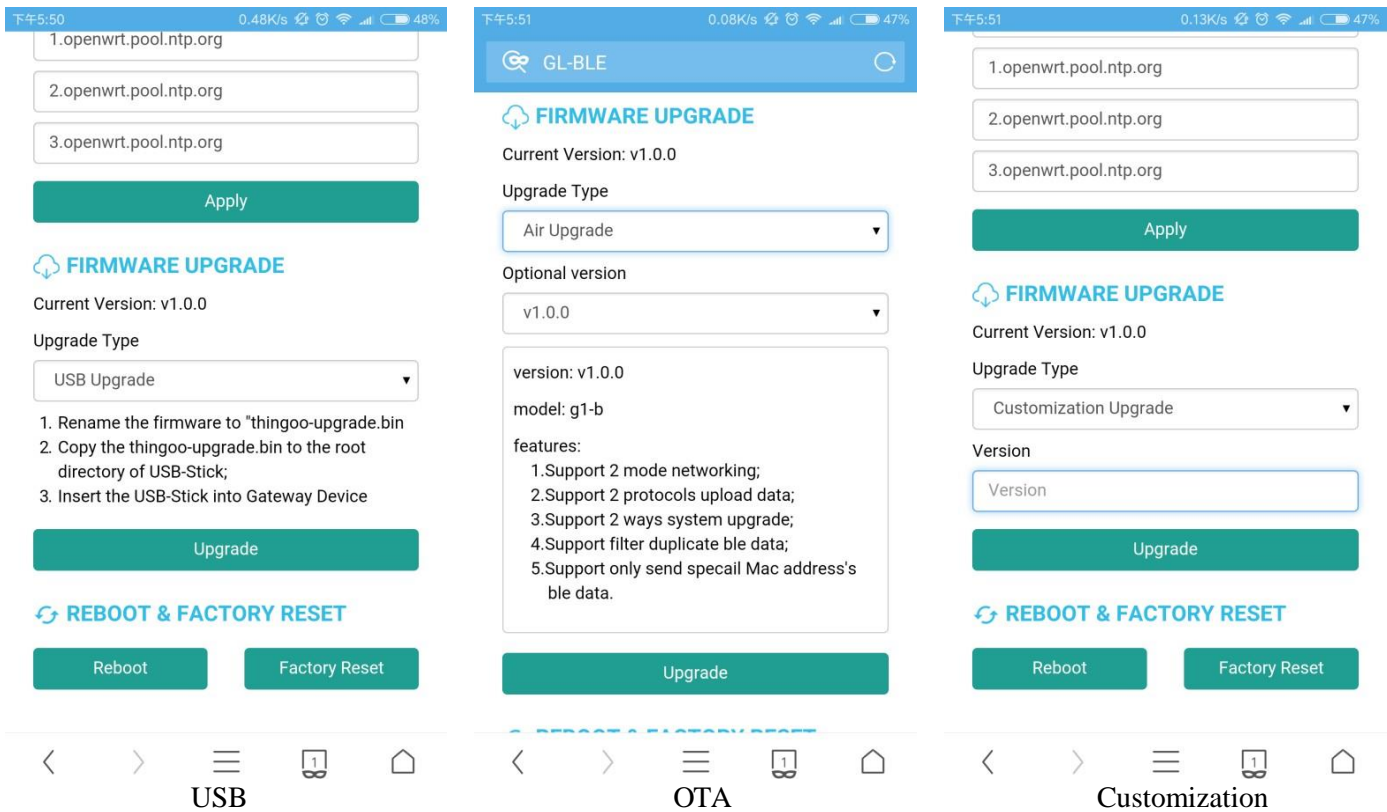
Do not cut off the power supply in the process of upgrade, after about 2 minutes; if the LED on the top of gateway is turned on, which indicates that the upgrade is done successfully.

3. Customization

After gateway connected with external network, choose “Customization Upgrade” from Upgrade Type list in Others of Web interface, fill in the version of customization firmware, and then click “Upgrade”, and “OK” to confirm your upgrade.

If the colorful LED on the top of gateway is turned off, this indicated that the upgrade is running.

Do not cut off the power supply in the process of upgrade, after about 2 minutes; if the LED on the top of gateway is turned on, which indicates that the upgrade is done successfully.



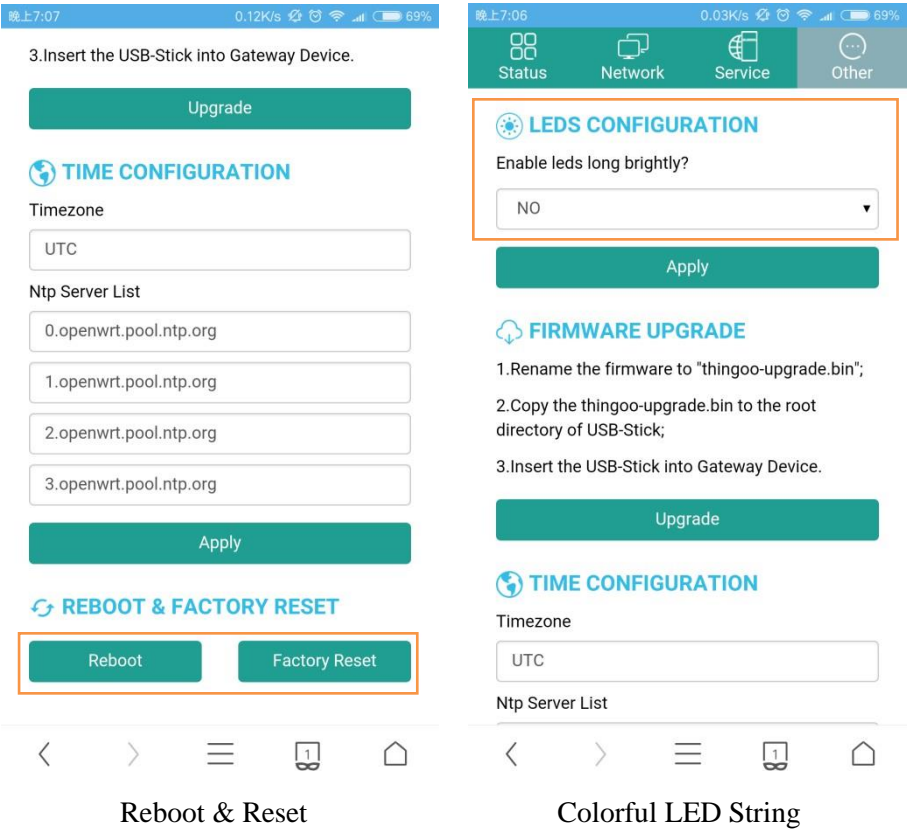
Device Reset and Reboot

Short press the RESET and loosen with a tip article into the RESET hole, then the device will restart; press RESET for more than 5s to recover the device back to defaults.

The use can also reset / reboot the device by Web interface as below.
Please take care to operate since the previous configuration will disappear after device reset.

Colorful LED String Setting

In default, the BLE gateway G1 works in normal (breathing status), after 1 minute, the colorful LED string will be closed automatically. You can set the status of colorful LED string by Web interface as below.



Notes: It is subject to any changes without prior notification. MINEW reserves the final right of interpretation.