# KTBG602

# Bluetooth gateway (4G/WiFi/Ethernet)

**Product specifications** 



### Document information

| Product model       | KTBG602                             |
|---------------------|-------------------------------------|
| Product description | Bluetooth gateway(4G/WiFi/Ethernet) |
| File type           | Product specifications              |
| Version date        | V2. 2 Jun 7, 2021                   |

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# **1 Product overview**

The KTBG602 is a Bluetooth 4.2/5.0 gateway with a 580MHz MIPS 24KEc processor, a 64MB DDR2 DRAM and 16MB FLASH. The KTBG602 Bluetooth Gateway integrates PA and LNA, so that the Bluetooth scanning and connectivity distance is more than 100 meters, it increases the coverage range and reduces the system cost. The KTBG602 can use PoE power supply (IEEE 802.3at (Class1)) or power adapter (wide input voltage range: 6V-24V).

KTBG602 can be compatible with different Bluetooth terminal devices, convenient for users to connect with different Bluetooth terminal devices such as Bluetooth bracelet, Bluetooth jump rope, Bluetooth door lock, various Bluetooth sensors, etc. KTBG602 Bluetooth gateway can scan data from Bluetooth devices, remote control through the connection with Bluetooth terminal devices, to achieve two-way transmission of data.

KTBG602 supports different communication protocols: UDP, TCP and MQTT. Bluetooth filtering is supported including Bluetooth name filtering, signal strength filtering, MAC address filtering, and more.

By receiving the Received signal strength index (RSSI value) of the Bluetooth signal from the Bluetooth terminal, you can calculate the distance from the Bluetooth terminal to multiple Bluetooth gateways, so that you can know the position of the Bluetooth terminal by tri-angle localization algorithm. KTBG602 should be used in a wide range of medical, elderly care, sports, fitness, education, smart home, and a variety of industrial applications.



# 2 System block diagram

KTGB602 system block diagram

# **3 Product characteristics**

- Support for PoE power supply or power adapter;
- Support for IEEE 802.11n, IEEE 802.11g, IEEE 802.11b protocol;
- BLE 4.2/5.0 is supported;
- Integrated Bluetooth PA/LNA;
- Support LTE-TDD/LTE-FDD/TD-SCDMA/UMTS/EVDO/EDGE/GPRS/GSM/CDMA; (4G version)
- A WAN/LAN adaptive port;
- RoHS compliant;
- FCC,CE compliant.

# **4 Product interface**

### 4.1 Indoor Bluetooth Gateway



- 1. Reset the key, press and hold for more than 5 seconds to restore factory settings;
- 2. Ethernet port /POE power supply;
- 3. Power supply, power adapter with AC 100-240V(50/60Hz)input, 12V 2A output power adapter.





### 1. Power LED;

| No. | State                              | Lights |
|-----|------------------------------------|--------|
| 1   | The power supply is plugged in     | On     |
| 2   | The power supply is not plugged in | Off    |

#### 2. WIFI LED

| No. | State                | Lights   |
|-----|----------------------|----------|
| 1   | The WiFi is starting | On       |
| 2   | After WiFi start-up  | Flashing |
| 3   | WiFi off             | Off      |

#### 3. Ethernet indicator

| No. | State                               | Lights   |
|-----|-------------------------------------|----------|
| 1   | The network cable is plugged in     | Flashing |
| 2   | The network cable is not plugged in | Off      |

#### 4. Bluetooth LED

| No. | Mode                                 | Lights                        |
|-----|--------------------------------------|-------------------------------|
| 1   | Scan device broadcast mode           | Periodic 5000ms off 200ms on  |
| 2   | Scan and forwarding information mode | Periodic 8000ms off 200ms on  |
| 3   | Long connection mode is connecting   | Periodic 2000ms off 2000ms on |
| 4   | Short connection mode is connecting  | Periodic 1000ms off 300ms on  |
| 5   | Connected to the device (more than 0 |                               |
| 5   | connections).                        | Periodic 300ms off 300ms on   |

# 4.2 Outdoor Bluetooth Gateway





# **5 Product performance parameters**

| Product size          | Diameter:124mm; Height:40mm                                |
|-----------------------|--|
| Power                 | DC6-28V (2A)   |
|                       | PoE (PoE switch up to 57V), IEEE 802.3at(Class1) compliant |
| Working current       | 280mA@12V (with 4G module)                                 |
|                       | 180mA@12V (without 4G module)                              |
| Operating temperature | -20°C~70°C   |
| Interface             | Ethernet port, power interface, reset button               |
| WiFi                  |  |
| WiFi protocol         | IEEE 802.11n, IEEE 802.11g, IEEE 802.11b                   |
| Data rate             | IEEE 802.11 b Standard Mode: 1,2,5.5,11Mbps                |
|                       | IEEE 802.11 g Standard Mode: 6,9,12,18,24,36,48,54Mbps     |
|                       | IEEE 802.11n : 72Mbps @ HT20                               |
|                       | 150Mbps @ HT40   |
| Receive sensitivity   | HT40 MCS7 : -67dBm@10% PER(MCS7)                           |
|                       | HT20 MCS7 : -73dBm@10% PER(MCS7)                           |
|                       | 54M: -76dBm@10% PER  |
|                       | 11M: -91dBm@ 8% PER  |



KTBG602- Product specifications

| Transmit power          | IEEE 802.11n: 15dBm @HT40 MCS7 |
|-------------------------|--------------------------------|
|                         | 15dBm@HT20 MCS7                |
|                         | IEEE 802.11g: 16dBm            |
|                         | IEEE 802.11b: 18dBm            |
| Wireless security       | WPA/WPA2, WEP, TKIP, and AES   |
| Working mode            | Bridge、Gateway、AP Client       |
| Bluetooth               |                                |
| Bluetooth protocol      | Bluetooth ® 5.0                |
| The data rate           | Uncoded: 1Mbps/2Mbps           |
| Wireless security       | AES HW Encryption              |
| The connection distance | 100m                           |
| Transmit power          | 0~+18dBm                       |
| 4G LTE                  |                                |
| Communication protocol  | LTE-TDD/LTE-FDD/TD-SCDMA/UMTS/ |
|                         | EVDO/EDGE/GPRS/GSM/CDMA        |

# 6 Gateway configuration

### 6.1 Preparation

- (1) One Bluetooth Gateway ;
- (2) One computer;
- (3) One 4G SIM card (only for 4G gateway);
- (4) One power adapter.

### 6.2 Connect the device

- (1) Power on the gateway;
- (2) Connect your computer to the WiFi of the Bluetooth gateway, the SSID of the WiFi is like KunLun\_XXXXXXXXX;
- (3) Make a connection.





Figure 1

# 6.3 Start configuring

Using a browser, input the IP address: 10.10.10.254; The username/password is admin/admin.

| 10.10.10.254 × +   |   |
|--|---|
| $\leftarrow$ $\rightarrow$ $\circlearrowright$ $\bigcirc$ 10.10.10.254 |   |
|  | 登录以访问此站点         http://10.10.10.254 要求进行身份验证         与此站桌的连续不安全         用户名       admin         密码       •••••         登录       取消 |



You can change the Account and Password in the Management menu.

| UNLUN   |                               |  |
|---|-------------------------------|--|
| BTGateway   | System Manager                | nent   |
| > 🖻 Internet Settings                                 | You may configure administra  | tor account and password, NTP settings, and Dynamic DNS settings here. |
| > 🗎 Wireless Settings                                 | Adminstrator Settings         |  |
| ■ Management  | Account                       | admin  |
| Upload Firmware                                       | Password                      | ••••   |
| 🖹 BLE Management<br>🖹 Settings Management<br>🖹 Status |                               | Apply Cancel   |
| Statistics  | Watch Dog Settings            |  |
|   | WatchDog                      | ● Enable ○ Disable   |
|   |                               | Apply Cancel   |
|   | NTP Settings                  |  |
|   | Current GW Time               | 2021-03-29 14:38:51 Sync with host                                     |
|   | Time Zone:                    | (GMT+08:00) China Coast, Hong Kong                                     |
|   | NTP Server                    | 111.230.50.201   |
|   | NTP<br>synchronization(hours) | 1  |
|   | Auto reboot at mid-<br>night  | ●Enable ○Disable   |
|   |                               | Apply Cancel   |
|   |                               |  |
|   |                               |  |

Figure 3

# 6.4 Use Ethernet access to the network

6.4.1 Select the Gateway option, see Figure 4, click the "Apply" button, the gateway restarts, please reconnect

the gateway;

- 6.4.2 The gateway of the gateway automatically switches to WAN port;
- 6.4.3 Connect the gateway to the switch or router;
- 6.4.4 The default is dynamic IP, if you need to use static IP, see Figure 5/6;

6.4.5 Once the above configuration is complete, you will normally get an IP, refer to Figure 11.

| BIGateway Operation Mode OINTROMAC OINTROMAC OINTROMAC OINTROMAC OINTROMAC OINTROMAC OINTROMAC | <ul> <li>Bridge:<br/>All ethernet and wireless interfaces are bridged into a single bridge interface.</li> <li>Gateway:<br/>The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.</li> <li>AP Client:<br/>The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.</li> <li>NAT Enabled: Enable </li> <li>TCP Timeout: 180</li> </ul> |
|--|--|
|  | UDP Timeout: 180<br>Apply<br>Cancel  |

#### Figure 4

| UNLUN  |   |   |
|--|---|---|
| BTGateway  | Wide Area Netw<br>You may choose different conne<br>configure parameters according  | work (WAN) Settings<br>ktion type suitable for your environment. Besides, you may<br>to the selected connection type. |
| <ul> <li>WAN</li> <li>LAN</li> <li>DHCP Clients</li> <li>VPN Passthrough</li> <li>Advanced Routing</li> <li>IPv6</li> <li>Mireless Settings</li> <li>Administration</li> </ul> | WAN Connection Type:<br>DHCP Mode<br>Hostname<br>(optional)<br>MAC Clone<br>Enabled | DHCP (Auto config) v  |



| BTGateway             | Wide Area Netw<br>You may choose different conniconfigure parameters according | work (WAN) Settings<br>ction type suitable for your environment. Besides, you may also<br>to the selected connection type. |
|-----------------------|--|--|
|                       | WAN Connection Type:   | STATIC (fixed IP)  |
| DHCP clients          | Static Mode  |  |
| VPN Passthrough       | IP Address   | 192.168.3.30   |
| Advanced Routing      | Subnet Mask  | 255.255.255.0  |
| > P Wireless Settings | Default Gateway  | 192.168.3.1  |
| > 🖻 Administration    | Primary DNS Server   | 192.168.3.1  |
|                       | Secondary DNS Server   | 192.168.3.1  |
|                       | MAC Clone  |  |
|                       | Enabled  | Disable ~  |
|                       |  | Apply Cancel   |
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#### Figure 6

### 6.5 Connect to the network through WiFi

6.5.1 Select the AP/Client option, see Figure 7, click the "Apply" button, the gateway restarts, please reconnect to the gateway;

6.5.2 The Ethernet of the Gateway automatically switches to LAN port, do not connect the device to the router to avoid LAN-LAN conflicts;

6.5.3 Set up the Wi-Fi you want to connect to, see Figure 8 and fill in the correct SSID and password in the red box location;

6.5.4 The default is dynamic IP, if you need to use static IP, see Figure 5/6;

6.5.5 Once the above configuration is complete, you will normally get an IP, refer to Figure 11.

# UNLUN

### BTGateway Deration Mode √ 🔁 Internet Settings 🖹 WAN 🖹 LAN LAN DHCP clients VPN Passthrough Advanced Routing IPv6

- > 🖻 Wireless Settings > 🖹 Administration

### **Operation Mode Configuration**

Bridge: All ethernet and wireless interfaces are bridged into a single bridge interface.

Gateway:
 The first ethernet port is treated as WAN port. The other ethernet ports

and the wireless interface are bridged together and are treated as LAN ports.

#### • AP Client:

The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

| NAT Enabled: | Enable ~ |
|--------------|----------|
| TCP Timeout: | 180      |
| UDP Timeout: | 180      |
|              | Apply    |
|              | Cancel   |
|              |          |

Figure 7



| TP-LINK_5ZLW        | 80:8f:1d:f7:84:0c | WPA1PSKWPA2PSK/TKIPAES | 78  | 11b/g/n | ABOVE | In |
|---------------------|-------------------|------------------------|-----|---------|-------|----|
|                     | 94:3b:b0:45:d8:6e | NONE                   | 76  | 11b/g/n | NONE  | In |
| libar_Wi-Fi5        | 04:f1:69:ff:09:a1 | WPA1PSKWPA2PSK/AES     | 83  | 11b/g/n | ABOVE | In |
| KunLun_40D63C34EC75 | 40:d6:3c:34:ec:75 | NONE                   | 100 | 11b/g/n | ABOVE | In |
| ChinaNet-62Vb       | f0:92:b4:1b:0d:09 | WPA1PSKWPA2PSK/TKIPAES | 76  | 11b/g/n | NONE  | In |
| ChinaNet-W49E       | f0:92:b4:9e:2b:49 | WPA1PSKWPA2PSK/TKIPAES | 100 | 11b/g/n | NONE  | In |
| ChinaNet-iSK4       | dc:a3:33:b4:f6:5c | WPA1PSKWPA2PSK/TKIPAES | 100 | 11b/g/n | NONE  | In |
| ChinaNet-RQbf       | 90:86:9b:32:b8:e0 | WPA1PSKWPA2PSK/TKIPAES | 100 | 11b/g/n | NONE  | In |
| ChinaNet-JJgk       | 48:a7:4e:84:61:98 | WPA1PSKWPA2PSK/TKIPAES | 100 | 11b/g/n | NONE  | In |
| ChinaNet-2.4G-84B0  | 04:95:e6:d4:84:b8 | NONE                   | 76  | 11b/g/n | BELOW | In |
| YUNTONVPN           | a8:5e:45:99:4b:d0 | WPA2PSK/AES            | 70  | 11b/g/n | NONE  | In |
| ChinaNet-nugs       | 1c:d5:e2:91:b5:06 | WPA1PSKWPA2PSK/TKIPAES | 70  | 11b/g/n | NONE  | In |
| ChinaNet-j3KE       | 1c:d5:e2:91:9d:a0 | WPA1PSKWPA2PSK/TKIPAES | 60  | 11b/g/n | NONE  | In |
| KUNLUN              | 28.d1.27.57.2d.0e | WPA1PSKWPA2PSK/TKIPAES | 100 | 11b/a/n | NONE  | In |

Figure 8

# 6.6 Use 4G to access network (only for 4G gateway)

- 6.6.1 Choose Gateway or AP Client mode;
- 6.6.2 The external network selects 4G Internet access, remember to select the modem model, see Figure 10;
- 6.6.3 4G Internet access does not support static IP;
- 6.6.4 Insert the SIM card correctly, see Figure 9;



Figure 9

6.6.5 When configured, you will normally get an IP address. See Figure 11.

| BTGateway<br>Coperation Mode<br>Tinternet Settings | Vide Area Net<br>You may choose different conn<br>configure parameters according | work (WAN) Settings<br>ection type suitable for your environment. Besides, you may also<br>g to the selected connection type. |
|--|--|---|
|  | WAN Connection Type:   | 4G 🗸  |
| DHCP clients                                       | 4G Mode  |   |
| VPN Passthrough                                    | APN  |   |
| Advanced Routing                                   | PIN  |   |
| ₽ IPv6   | Dial Number  |   |
| > 🗁 Wireless Settings                              | Diai Number  |   |
| Administration                                     | Username   |   |
| E Unload Firmware                                  | Password   |   |
| BLE Management                                     | USB 4G modem   | AutoDetect 🗸  |
| Settings Management                                | 4G Hardware Status   |   |
| Status   | SIM Status   |   |
| Statistics   | 4G Signal Status   |   |
|  | MAC Clone  |   |
|  | Enabled  | Disable ~   |
|  |  | Apply Cancel  |
|  |  |   |
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| Jateway                           | Access Point Status                     |                            |
|-----------------------------------|---|----------------------------|
| peration Mode<br>nternet Settings | Let's take a look at the status of Rali | ink SoC Platform.          |
| /ireless Settings                 | System Info                             |                            |
| ninistration                      | FW Version                              | KLW0003V2.05               |
| load Firmware                     | System Up Time                          | 16 hours, 46 mins, 49 secs |
| F Management                      | System Platform                         | RT2880 embedded switch     |
| ttings Management                 | Operation Mode                          | AP Client Mode             |
| atus                              | Internet Configurations                 |                            |
| atistics                          | Connected Type                          | DHCP                       |
|                                   | WAN IP Address                          | 192.168.3.30               |
|                                   | Subnet Mask                             | 255.255.255.0              |
|                                   | Default Gateway                         | 192.168.3.1                |
|                                   | Primary Domain Name Server              | 192.168.3.1                |
|                                   | Secondary Domain Name Server            | 192.168.3.1                |
|                                   | MAC Address                             | 42:D6:3C:0B:30:05          |
|                                   | Local Network                           |                            |
|                                   | Local IP Address                        | 10.10.10.254               |
|                                   | Local Netmask                           | 255.255.255.0              |
|                                   | MAC Address                             | 40:D6:3C:3B:30:05          |

Figure 11

# 6.7 Firmware upgrade

6.7.1 Select Upload Firmware;

6.7.2 Select the firmware provided by the Kunlun Link to upgrade, see Figure 12;

6.7.3 When update the firmware, please don't power off the gateway. The gateway will reboot after upgrade the

firmware.

6.7.4 Look at the current firmware, see Figure 13.

| <ul> <li>BTGateway</li> <li>Operation Mode</li> <li>Internet Settings</li> <li>Administration</li> <li>Management</li> <li>Upload Firmware</li> <li>BLE Management</li> <li>Settings Management</li> <li>Status</li> <li>Statistics</li> </ul> | Upgrade Fin<br>It takes about 1 minu<br>Update WIFI Firmv<br>Location:<br>Apply<br>Update Bootloader<br>Location:<br>Apply | rmwar<br>ute to uplo<br>vare<br>远择文件 | re<br>ad upgrade flash and<br>末选择任何文件 | be patient please. |  |
|--|--|--------------------------------------|---------------------------------------|--------------------|--|



| <ul> <li>BTGateway</li> <li>➡ Operation Mode</li> <li>&gt; ➡ Internet Settings</li> <li>&gt; ➡ Wireless Settings</li> <li>&gt; ➡ Administration</li> </ul> | Access Point Status          | ink SoC Platform.          |  |
|--|------------------------------|----------------------------|--|
|  | System Info                  | ki wooniyz os              |  |
| Management   | System Up Time               | 14 hours, 33 mins, 54 secs |  |
| B B E Management   | System Platform              | RT2880 embedded switch     |  |
| Settings Management  | Operation Mode               | AP Client Mode             |  |
| Status   | Internet Configurations      |                            |  |
| Statistics   | Connected Type               | DHCP                       |  |
| _  | WAN IP Address               |                            |  |
|  | Subnet Mask                  |                            |  |
|  | Default Gateway              | 10.35.27.149               |  |
|  | Primary Domain Name Server   | 120.196.165.7              |  |
|  | Secondary Domain Name Server | 120.196.165.7              |  |
|  | MAC Address                  | 42:D6:3C:04:EC:73          |  |
|  | Local Network                |                            |  |
|  | Local IP Address             | 10.10.10.254               |  |
|  | Local Netmask                | 255.255.255.0              |  |
|  | MAC Address                  | 40:D6:3C:34:EC:73          |  |

Figure 13

### 6.8 Configure the data receiving server

6.8.1 Depending on the actual scenario, select the TCP or UDP or MQTT transmission, see Figure 14;

6.8.2 Fill in the correct IP address and port, or domain name and port;

6.8.3 After confirmation of use, the appropriate server will be able to listen to the data reported by the gateway, the details of the data format can be found in the protocol documentation.

| UNLUN  |   |
|--|---|
| BTGateway  | Settings Management   |
| Operation Mode     Operation Mode     Internet Settings     Wireless Settings     Or Ministration     Management     Upload Firmware     EUL Management     Status     Status     Statistics | Import/Export Settings  |
|  | 道择文件 未选择任何文件<br>import Export   |
|  | Load Factory Defaults/Reboot System   |
|  | Lond Default Reboot System Tips: The operation of Reboot System will restart the 4G module if it exists |
|  | BLE Address   |
|  |   |
|  | User Server Settings  |
|  | OTCP ●UDP OMQTT   |
|  | IP/host 192.168.3.36 Port 7628  |
|  |   |
|  |   |

Figure 14



# 6.9 Administrator settings

- 6.9.1 To configure the administrator account password for this gateway, see Figure 15;
- 6.9.2 For the opening and closing of the Watch dog, default is Enable, see Figure 16;
- 6.9.3 To configure the gateway's time parameters, see Figure 16;

| Gateway  | System Manage  | System Management                    |  |  |  |  |
|--|--|--------------------------------------|--|--|--|--|
| Operation Mode     Internet Settings     Wireless Settings | You may configure administrator account and password, NTP settings, and Dynamic DNS settings here. |                                      |  |  |  |  |
|  | Adminstrator Settings  |                                      |  |  |  |  |
| Anagement  | Account  | admin                                |  |  |  |  |
| Upload Firmware  | Password   | ••••                                 |  |  |  |  |
| BLE Management<br>Settings Management<br>Status            |  | Apply Cancel                         |  |  |  |  |
| E Statistics   | Watch Dog Settings   |                                      |  |  |  |  |
|  | WatchDog   | Enable      Disable                  |  |  |  |  |
|  |  | Apply Cancel                         |  |  |  |  |
|  | NTP Settings   |                                      |  |  |  |  |
|  | Current GW Time  | 2021-03-29 14:38:51 Sync with host   |  |  |  |  |
|  | Time Zone:   | (GMT+08:00) China Coast, Hong Kong 🗸 |  |  |  |  |
|  | NTP Server   | 111.230.50.201                       |  |  |  |  |
|  | NTP<br>synchronization(hours)  | 1                                    |  |  |  |  |
|  | Auto reboot at mid-  | ● Enable ○ Disable                   |  |  |  |  |

Figure 15

| System Manage                 | ment   |
|-------------------------------|--|
| You may configure administ    | rator account and password, NTP settings, and Dynamic DNS settings here. |
| Adminstrator Settings         |  |
| Account                       | admin  |
| Password                      |  |
| 1                             | Apply Cancel   |
| Watch Dog Settings            |  |
| WatchDog                      | Enable O Disable   |
|                               | Apply Cancel   |
| NTP Settings                  |  |
| Current GW Time               | 2021-03-29 14:39:28 Sync with host                                       |
| Time Zone:                    | (GMT+08:00) China Coast, Hong Kong v                                     |
| NTP Server                    | 111.230.50.201   |
| NTP<br>synchronization(hours) | 1  |
| Auto report at mid            |  |

Figure 16

# 7 Order a model

KTBG602-P :Plastic housing KTBG602-PC: Plastic case with 4G module



KTBG602-M: Metal waterproof housing KTBG602-MC: Metal waterproof housing with 4G module





KTBG602-P/ KTBG602PC

KTBG602-M/ KTBG602-MC

# 8 Contact us

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# 9 version history

| Version | Date              | Change the person | Change the content                            |
|---------|-------------------|-------------------|---|
| V1.1    | October 27, 2020  | Robot2            | Initial release                               |
| V2.0    | February 29, 2021 | Robot2            | Add the configuration Description             |
| V2.1    | March 10, 2021    | Robot2            | Add an outdoor gateway interface description; |
| V2.2    | Jun 7, 2021       | Robot2            | Revise the operation voltage range, current.  |