



|                     |                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name</b> | GAOTek Remote Healthcare                                                                                                |
| <b>Product SKU</b>  | GAOTek-HI-148                                                                                                           |
| <b>Product URL</b>  | <a href="https://gaotek.com/product/gaotek-remote-healthcare/">https://gaotek.com/product/gaotek-remote-healthcare/</a> |

**Contact us: [sales@gaotek.com](mailto:sales@gaotek.com)**

Based in New York City & Toronto, GAO Tek Inc. is ranked as one of the top 10 global B2B technology suppliers. GAO ships overnight within the U.S. & Canada & provides top-notch support thanks to its 4 decades of experience.



## CONTENTS

|                                     |   |
|-------------------------------------|---|
| 1. Product overview .....           | 3 |
| 2. Application field .....          | 3 |
| 3. Product features .....           | 3 |
| 4. Product specifications .....     | 4 |
| 5. Status indicator and reset ..... | 6 |
| 6. Appearance size: .....           | 8 |
| 7. Packing List .....               | 9 |



## **GAOTek Remote Healthcare**

### **1. Product overview**

The product is the core device of the network. The devices are added to the network through the gateway to realize communication with other devices. The product is connected to the router through a network cable to communicate with the cloud and mobile apps. Through the app can view and control the equipment.

### **2. Application field**

- Smart LED
- Smart home/home appliances
- Intelligent low-power sensor

### **3. Product features**

- a) Control devices: users can control sub-devices through the product and support remote control and group control.
- b) One-key networking: support multiple devices to be added at the same time, simplify the tedious steps of network configuration, and make the device networking operation more user-friendly.
- c) Cloud scene/automation: Through the scene and automation settings in the APP, the sub-device under the gateway can be used as an execution or trigger condition to link with other smart devices.



- d) Local scene/automation: When scene/automation is executed, the local will be given priority. Through this function, the intelligent scene/automation set by the user can still be executed efficiently even when the external network is disconnected.
- e) Support project deployment: support project installation and deployment, local deployment and installation of equipment can also be completed in the real estate construction environment, and support intelligent scene configuration, users only need to configure the product to use when staying in.

#### 4. Product specifications

##### PHYSICAL CHARACTERISTICS

|                     |                                   |
|---------------------|-----------------------------------|
| APPEARANCE SIZE     | LENGTH WIDTH HEIGHT =92X92X25.5MM |
| WEIGHT              | NET WEIGHT 100G                   |
| STATUS INDICATOR    | 4 LED (GREEN)                     |
| OPERATION BUTTONS   | 2 BUTTONS (RESET)                 |
| POWER SUPPLY        | MICRO USB DC5V                    |
| WORKING CURRENT     | <1A                               |
| ADAPTER             | 110V - 240VAC, 5V/1ADC            |
| WORKING VOLTAGE     | 1.8V - 3.3V                       |
| WORKING TEMPERATURE | 14-131°F                          |
| WORKING HUMIDITY    | 10% - 90%RH(NON-CONDENSING)       |



|                     |                                            |
|---------------------|--------------------------------------------|
| STORAGE TEMPERATURE | -20 - 60°C                                 |
| STORAGE HUMIDITY    | 5% - 90%RH(NON-CONDENSING)                 |
| HARDWARE INTERFACE  | 1 ↑ MICRO-USB, 1 LAN INTERFACE             |
| WIRELESS TECHNOLOGY | IEEE 802.15.4 2.4 - 2.485GHZ<br>ZIGBEE 3.0 |

**Product Technical Specifications:**

**MAIN SYSTEM**

**ZIGBEE**

| CATEGORY          | PARAMETER                  | CATEGORY                                 | PARAMETER               |
|-------------------|----------------------------|------------------------------------------|-------------------------|
| CHIP/MODULE       | RTL8196E                   | CHIP/MODULE                              | EFR32MG1B232/TYZS4-IPEX |
| CPU FREQUENCY     | 400MHZ                     | STANDARD                                 | IEEE 802.15.4           |
| CHIP ARCHITECTURE | MIPS                       | FREQUENCY BAND                           | 2.405-2.480GHZ          |
| OPERATING SYSTEM  | LINUX 3.10                 | MAXIMUM OUTPUT POWER                     | 19DBM                   |
| FLASH             | 128MBIT                    | DYNAMIC OUTPUT POWER                     | >35DB                   |
| DDR2              | 256MBIT                    | OPEN LINE-OF-SIGHT TRANSMISSION DISTANCE | >300M                   |
| USB               | 2 USB Host/DEVICE,1 USBPHY | FREQUENCY ERROR                          | ±15PPM                  |



|                        |                                                                   |                               |                                 |
|------------------------|-------------------------------------------------------------------|-------------------------------|---------------------------------|
| <b>UART</b>            | 1 DEBUG, 1DATA                                                    | THEORETICAL TRANSMISSION RATE | 250KBPS                         |
| <b>GPIO</b>            | 16                                                                | RECEIVING SENSITIVITY         | TYPICAL VALUE - 102DBM, PER<10% |
| <b>TIMER</b>           | 2 HARDWARE TIMERS, 1 WATCHDOG                                     | TOTAL NUMBER OF CHANNELS      | 16                              |
| <b>WAN</b>             | 1PC 10/100M ETHERNET PORT (RJ45 INTERFACE)                        | CHANNEL NUMBER                | 11 - 26                         |
| <b>INDICATOR LIGHT</b> | 1 NETWORK INDICATOR(2GREEN), 1 BLUETOOTH STATUS INDICATOR(2GREEN) | NETWORK TOPOLOGY              | SUPPORT STAR AND MESH NETWORK   |
| <b>BUTTON</b>          | 2 RESET BUTTONS                                                   | FIRMWARE UPGRADE              | SUPPORT OTA                     |

### 5. Status indicator and reset

Indicator light logic in working state

2 Green light: indicates Wi-Fi status:

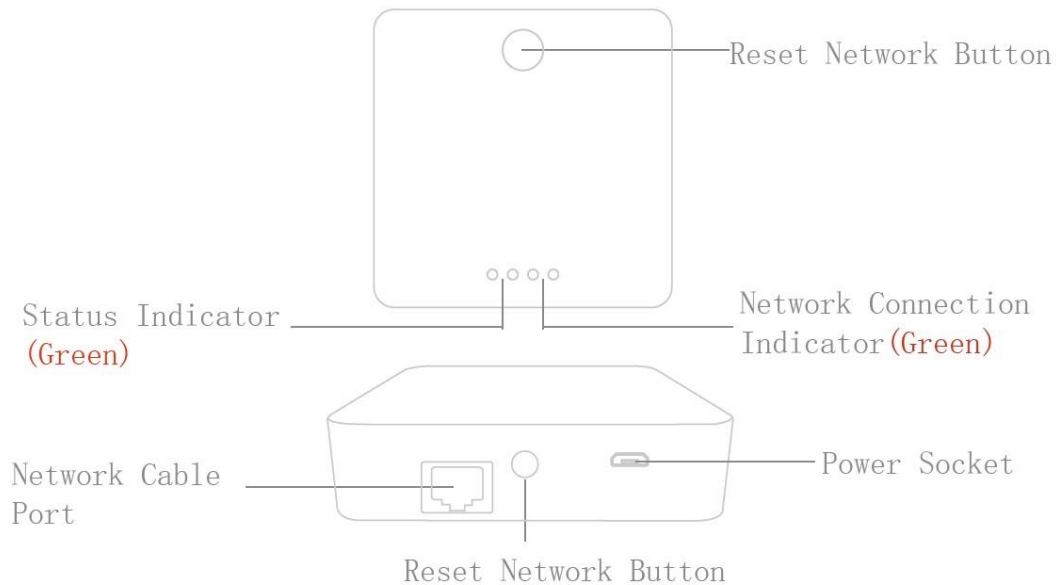
- 1) Stable light means connected;
- 2) Flashing means to be connected;

2 Green light: indicates status:

- 1) Stable light means inactive;
- 2) Long off means it has been activated;
- 3) Flashing means that the sub-device is allowed to access the network;

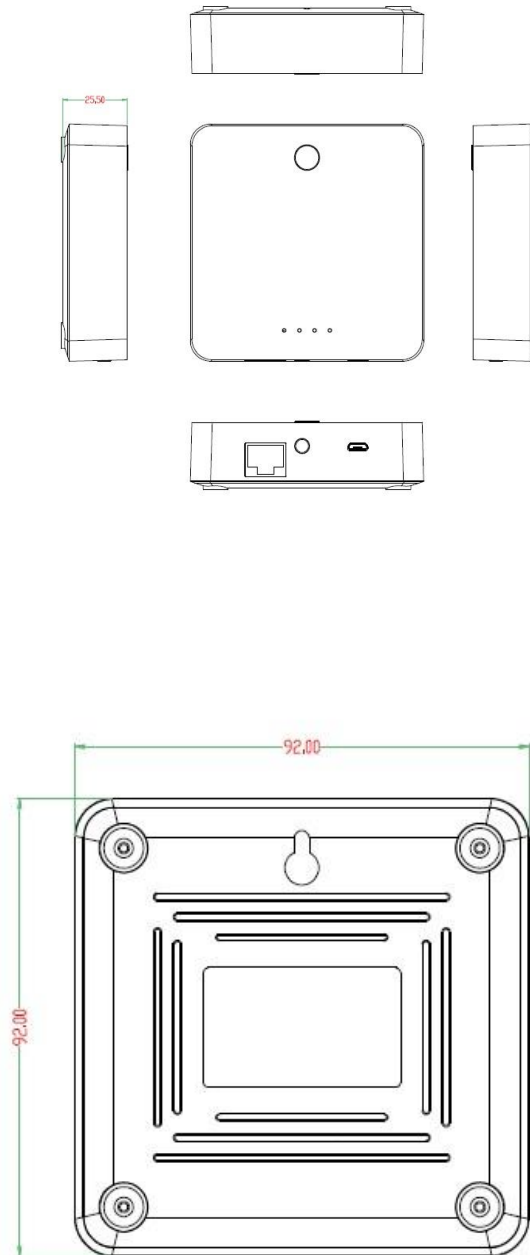
Long distribution network mode:

- 1) Short press the button (key time  $\leq 5$  seconds) to enter the long distribution network mode, which lasts for 1 hour, the distribution network indicator light keeps flashing, and the flashing interval is 500ms (0.5S).
- 2) In the long-term distribution network mode, short press the button again (key time  $\leq 5$  seconds) to exit the long-term distribution network mode, and the network distribution indicator will turn off.



## 6. Appearance size:

Unit: mm







## 7. Packing List

- Product x1
- LAN Cable x1
- Data Cable x1
- Adapter x1 ( Optional, not included in standard kit )
- User Manual x1

### Questions:

**Q. Does the product support Wi-Fi connection?**

**A:** The product supports connection in the downlink, and only wired connection in the uplink.

**Q. Does the product support 5G frequency band connection?**

**A:** The product only supports 2.4G Wi-Fi (the same local area network) connected to the mobile phone during network configuration and does not support 5G.

**Q. When ensuring stable control, what is the farthest distance between the sub-device and the gateway?**

**A:** Indoor 35m, outdoor 200m+, stable control.

**Q. How many sub-devices can be connected at most?**

**A:** 128.