

NuboMed 诺博



CLEAN  
SIMPLE  
SMART

# Smart Gateway G1100



## Product Specification

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## Introduction

Thank you for using the products of Smart medical IoT system produced by NuboMed LLC. NuboMed smart medical IoT system integrates the information of patients and equipment with the hospital platform, integrates the new IOT Smart vital signs monitoring equipment with other manufacturers to digitize patient data, realizes the whole process of health monitoring and management of patients from hospital surgery to ward care, meets the process and standards of smart hospital construction, improves the work process, reduces the work burden of medical staff, and improves the quality of medical service.

This user manual can be used as a material for the training operation and reference of the product model equipment of this IoT system.

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# I. Important Instruction

## 1.1 Statement

Before operating the configuration and use of the IoT devices, please read this manual carefully. Special attention should be given to the safety guidance. These smart IoT devices are considered illegal for any other purposes other than this description.

- Smart IoT devices and software systems can only be operated by trained personnel, and can only be used for the contents specified in this manual and operated according to the instructions in the manual.
- Please maintain and maintain the equipment according to the maintenance instructions in this manual; the equipment can only be repaired by Shenzhen NuboMed Medical Device Co., Ltd. or its authorized service personnel.
- Please do not install this equipment near the electromagnetic interference source.
- Do not change the software and hardware settings of this device.
- Due to the constantly updated products, Shenzhen NuboMed Medical Device Co., Ltd. will retain the right to change the technical specifications without notice.

## 1.2 Service Environment

- (1) Ambient temperature of equipment installation: 0 ~ 40°C.
- (2) Relative humidity for equipment installation: 10 ~ 90% (no condensation).
- (3) The existence of explosive dangerous medium is not allowed in the place of use, and the surrounding medium should not contain the gas and conductive medium that corrode the metal and destroy the insulation.
- (4) The place of use shall have protective facilities against rain, snow, wind, sand, and ash.

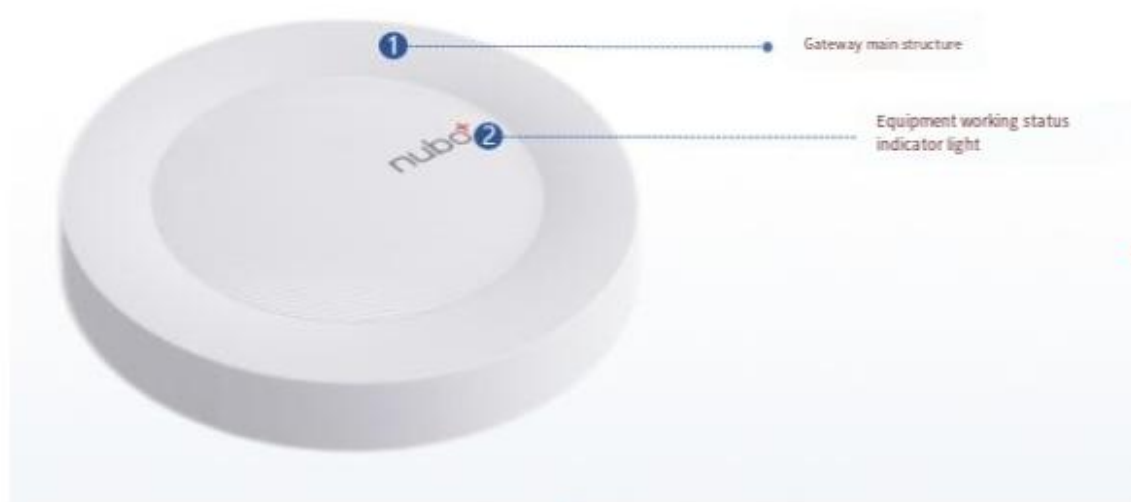
## 1.3 Configuration

No.	Name	unit
1	Smart Gateway Host	1
2	Gateway fixing structure floor and fixing screws	1

Note: For DC power supply mode, provide NuboMed specified power adapter product.

## II. Product Introduction

### 2.1 Structure Declaration



### 2.2 Specification

Order Number	Component Name	Sub Modular	Specification Parameters
1	Physical Spec	Dimensions	200 x40mm, diameter
		Weight	≤420g
2	Technical Spec	Processor	Dual-core ARM Cortex-A7, Integrated FPU、NPU.
		RAM	DDR3 1GB
		ROM	4GB eMMC
		Bluetooth tech	BLE5.3
		BLE data rates	2Mbps/1Mbps/125kbps

		BLE Frequency	2.400~2.483GHz
		WiFi tech	802.11a/b/g/n/ac/ax
		WiFi Speed	1200Mbps
		WiFi Band	2.4GHz+5GHz
		Ethernet	10/100Mbps
3	Key Features	Voice alarm	10 second continuous voice alarm when power fault.
		OTA	update the firmware through Ethernet or WiFi.
		RGB LED	Indicate the working and fault status through RGB LED.
4	Interface	Ethernet Ports	1x RJ45
		Key	Reset
5	Power Supply	PoE	802.3af/at, 12W
		DC	12VDC, 1A
6	FCC	FCC ID	2BK7P-G1100

## 2.3 Work status description

Operative mode	<p>Green light is always on: normal working condition;</p> <p>Blue light flashing: network disconnected or network abnormal, is connected to the network status;</p> <p>Red constant light: equipment failure;</p> <p>When the power is dropped, broadcast the voice reminder user,</p>
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	continuously broadcast for 5 seconds, and the white light flicker reminder;
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## 2.4 Installation instructions

The product installation can be roughly divided into the following steps:

- (1) Fix the base of the gateway to the roof ceiling of the ward, corridor or office;
- (2) The corresponding gateway power supply and communication mode adopts POE mode, the position is next to the gateway base, refer to the diagram;



**Intelligent gateway base installation signal**

- (1) Scan the code and mark the gateway through PDA and other tools;
- (2) Card the gateway terminal into the installed base and plug in the POE network cable;
- (3) Configure each gateway IP as a fixed IP address;

## 2.5 Explanation of the key components

- Intelligent gateway, after the installation of fixed and networking, need to uniformly configure the fixed IP address and the device MAC address binding, so as to facilitate the subsequent device positioning can be obtained in time;
- After the device is connected to the POE, in case of abnormal disconnection, the device will send a voice alarm message.

## III. Common fault

Fault of common problems	Fault description	Solve the treatment method
No location information updates	The equipment does not work properly, and there is no successful connection net	1. Within the coverage range of the gateway, try to scan the code of the terminal device again; 2. Please check the equipment for damage; if there is any damage, please contact the engineer for replacement.

## IV. Matters need attention

### 4.1 Precautions

#### FCC STATEMENT :

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.



RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device should be installed and operated with minimum distance 20cm between the radiator & your body. .

## 4.2 Use the pre-test

- Check whether the single device and the interconnection system are working normally.
- Check whether the whole network data upload is normal.

## V. Clean instructions

- Please clean the equipment with a gentle cleaner. Do not use corrosive detergent, solvent, wax, paraffin, or steam cleaning products.
- Test method for detergent suitability: Users can reduce the damage to the product surface by reducing the exposure time and cleaning agent usage (diluted according to the suppliers recommendation).
- Local contamination of colored substances, such as iodophor, coffee, mustard, curry or red wine, must be removed immediately.

## VI. Service Commitment

Our company has established a series of complete strict quality control system, the production of product quality, but because of the product is Smart equipment, if not in accordance with the procedures, will be wrong or damage, therefore, we must remind you, please you are sure to read and understand this manual, and then in strict accordance with our equipment operation.

If you feel that there is any improvement in our smart series products, or if you have any comments or suggestions on our products, you are always free to ask us, we will answer your questions with the most sincere attitude and solve your problems as soon as possible.

# Smart Gateway

Version: V1.0



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NuboMed LLC