

User Manual for Smart Gateway

M420-80CVer1.0

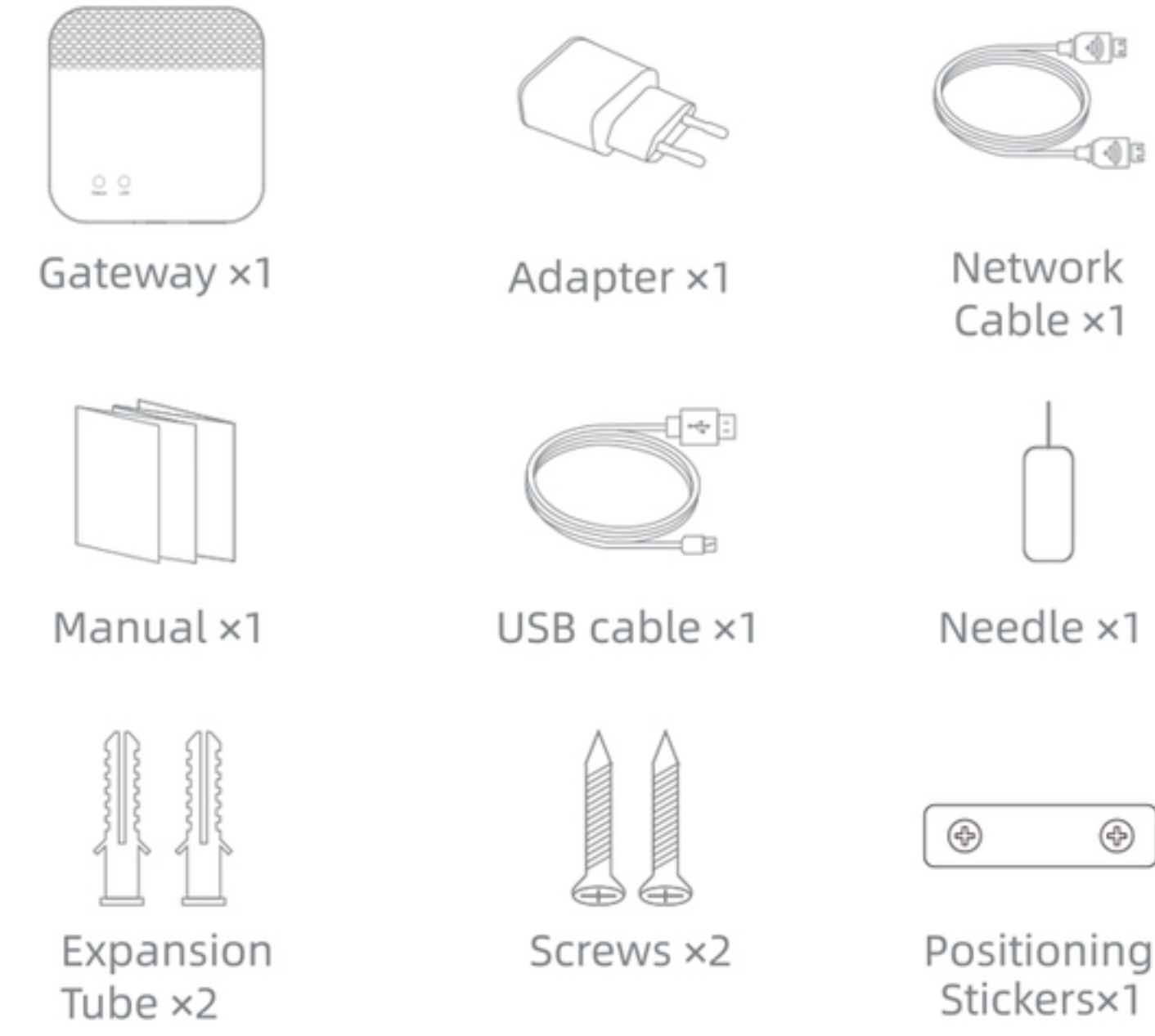


*Please read this user manual carefully before operation. The pictures are for reference only. Please in kind prevail.

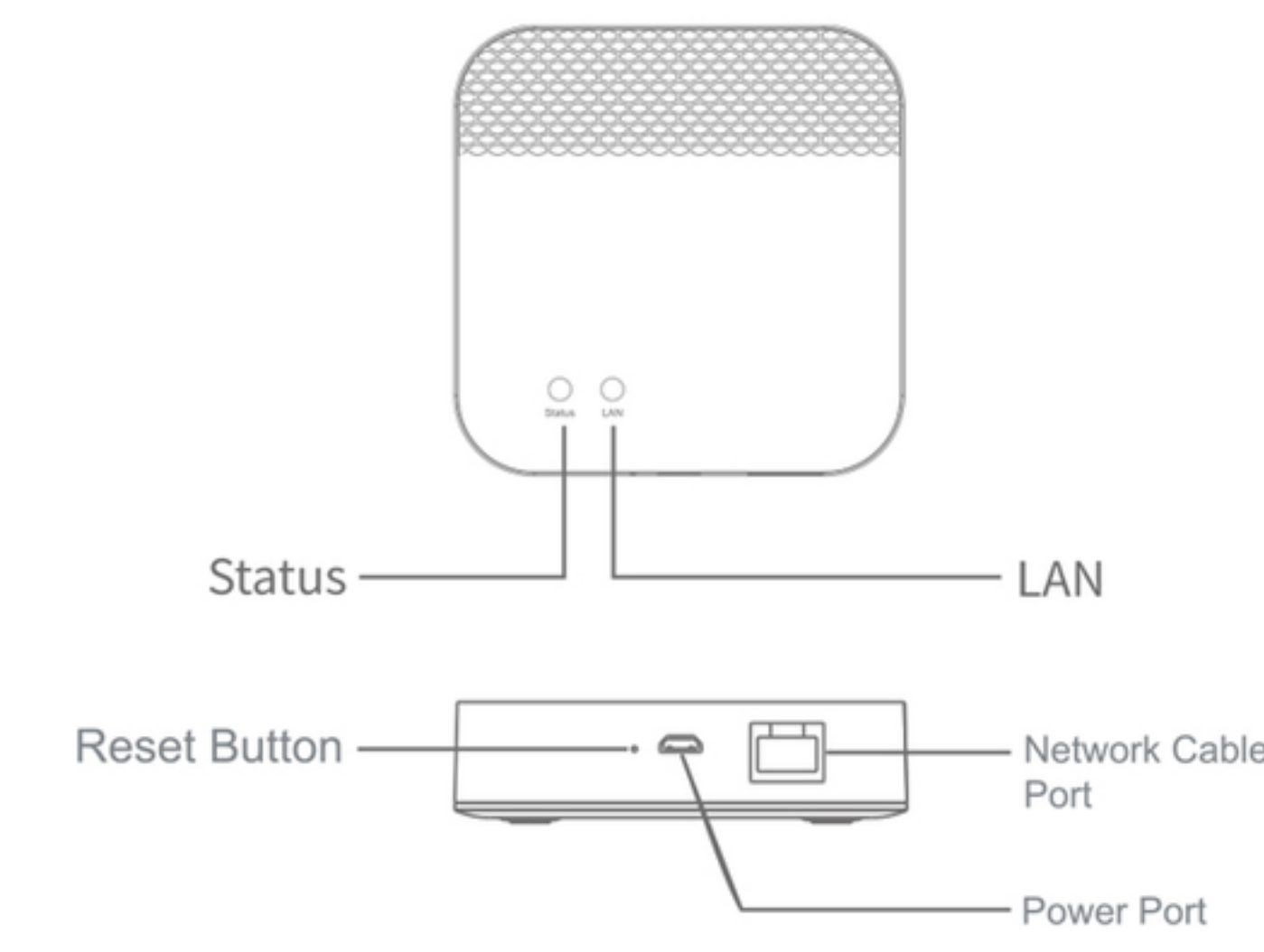
01 /Product Introduction

This smart gateway adopts Linux operating system, As the control hub of smart home appliances, it can work with different kinds of Zigbee devices, such as smoke alarms, gas alarms, carbon monoxide alarms, door detectors, infrared detectors, water leakage detectors, sirens, emergency buttons, scene switches, curtain controllers, RGB lights, wall switches, etc. smoothly and stably to realize a full range of application scenes like home security, elderly care, fire alarms, and home appliance control. This smart gateway is suitable to be used in residential buildings, villas, hotels, office buildings, factories, supermarkets, etc.

02 /Packing List



03 / Product Diagram



04 / Technical Parameter

Working Voltage: DC5V 1A
 Rated Power: 1.5W (Ethernet)
 Networking Mode: Ethernet, WIFI 2.4G(WiFi is an optional function)
 Wireless Connection : Zigbee 3.0
 Zigbee Communication Distance: ≤80 meters (outdoor open environment)
 Working Temperature: 0 °C ~ +55 °C
 Working Humidity: ≤95% RH (no condensation)
 Dimensions: 90.0 x 90.0 x 24.0mm

05 /Hardware parameters

A. Hardware port

Power port: Micro USB
 Network port: RJ45
 Resetting hole: press continuously 10 times to restore to factory settings

B. Zigbee

Maximum receiving sensitivity: -100dBm
 Maximum receiving sensitivity: 19dbm

06 / Add the gateway to APP



Connect the gateway to the router with a network cable, and then power on the gateway, the gateway will enter networking status: If the green LAN LED keeps on, it indicates the gateway has been connected to the server. If the yellow LAN LED keeps on, it indicates its connecting to the server is abnormal.



After the gateway has connected to the internet successfully, scan QR code above to download APP to user smart phone and register an account and log in.

07 /Gateway configuration instructions

Status	Operation
Network configuration	Connect the gateway to the router with a network cable, and then power on the gateway, the gateway will enter network inclusion status: If the green LED of the LAN keeps on, it indicates the gateway has been connected to the server. If the yellow LED of the LAN keeps on, it indicates its connecting to the server is abnormal.
Add Zigbee device	On the APP homepage, click "+" in the upper right corner to add a device by selecting corresponding device icon and then go to the adding device guide page, do as it prompts. Then blue LED will start to flash, it indicates the device is trying to connect to the gateway .
Reset	Press reset hole 10 times Continuously, blue LED will flash slowly for 5 seconds, it indicates that the gateway is reset, all connected devices are deleted, and the binding between the gateway and the APP is deleted, and all configuration information is also deleted.

- Connect the user smart phone to WiFi (same as the router WiFi and gateway WiFi).
- On the APP homepage, click "+" in the upper right corner to add the device by selecting "Smart Gateway" and follow the app prompts to add the smart gateway to APP.

08 /LED indicator status instructions

1. Status

LED indicator	Status
Blue LED indicator	Blue LED flashes slowly once/second, the gateway is resetting.
	Blue LED flashes 3 times/second, the Zigbee device is adding to the gateway.
Green LED indicator	If a Zigbee device is added to the gateway successfully, green LED indicator will flash quickly (5 times/second).
	If Zigbee network works normally, green LED indicator will flash slowly (once/second).
Red LED indicator	When one Zigbee device is alarming, red LED indicator will flash quickly (3 times/second).
Purple LED indicator	Zigbee firmware is updating.
White LED indicator	Gateway firmware is updating.

2. LAN

LED indicator	Status
Red LED keeps on	Succeed in connecting to the server.
Red LED keeps on	The network is abnormal.
Yellow LED keeps on	The server is abnormal.

09 / Audible alarm indication instructions

Buzzer	Gateway Status
500ms One long beep	Gateway Status
500ms Two short beeps	Gateway configuration: Disarm
30s Continuous beeps	Gateway alarm mode (Alarm duration time can be set, default duration time is 30 seconds)

10 / Add Zigbee device

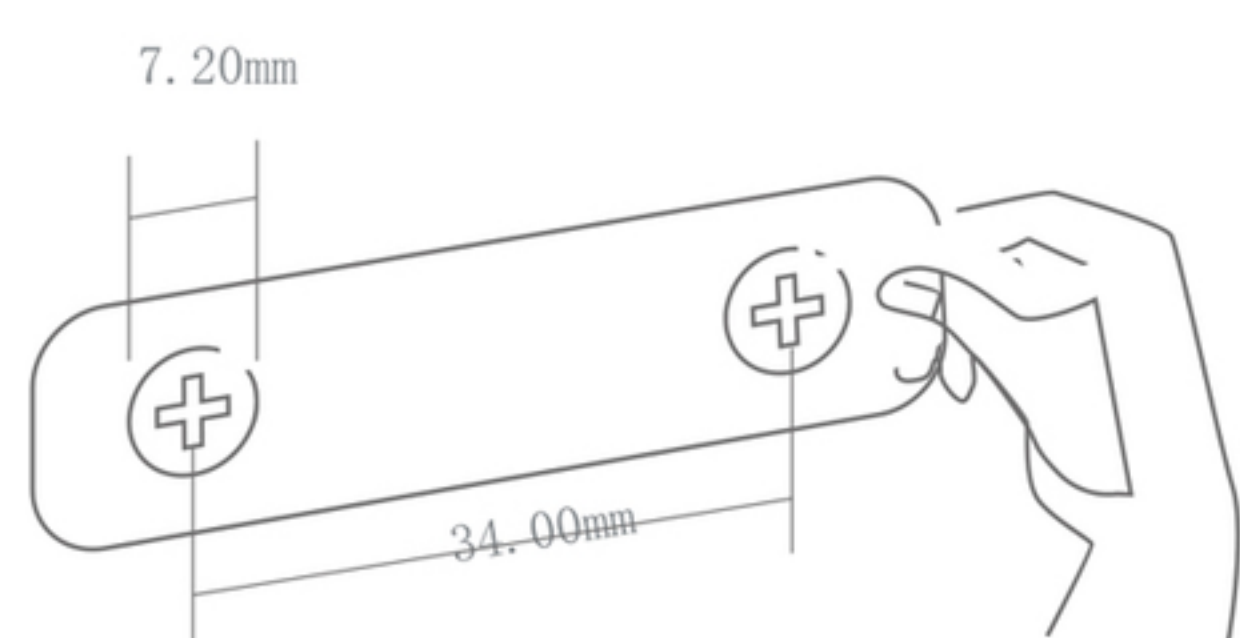


- On the APP homepage, click "+" to add a device by selecting the device icon and enter into the device adding guide page, do as the page prompts, so the Zigbee device will enter networking status. Then the gateway blue LED starts to flash, indicating it waits for new Zigbee device to be connected to .

11 / Installation Tips

1. Install the gateway as near as possible to the physical center of multiple connected Zigbee devices.
2. Try to shorten the distance between the gateway and the zigbee devices.
3. Minimize the number of obstacles between the gateway and the zigbee devices.
4. Try to keep the gateway close to the router and within 2-6 meters is best.
5. Avoid installation in places with high noise sources or frequency interference, such as metal, air conditioning, heating device, current interrupter control box.
6. Reinforced concrete wall with metal mesh or metal ribs building materials will shorten the wireless transmission distance.

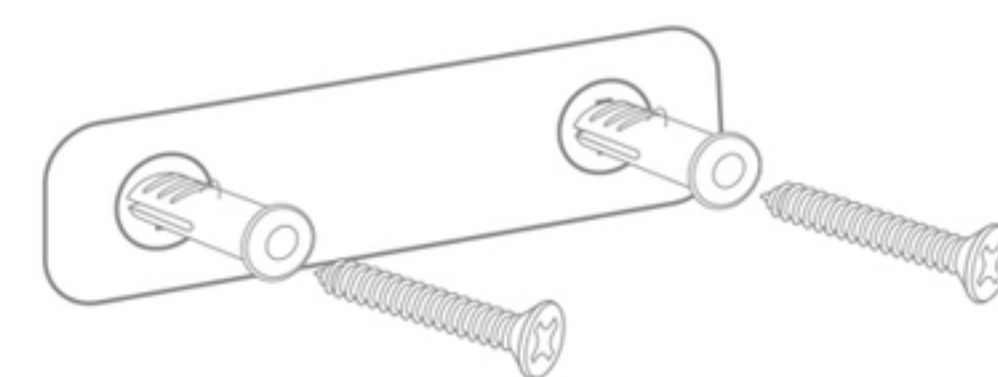
12 / Installation Steps



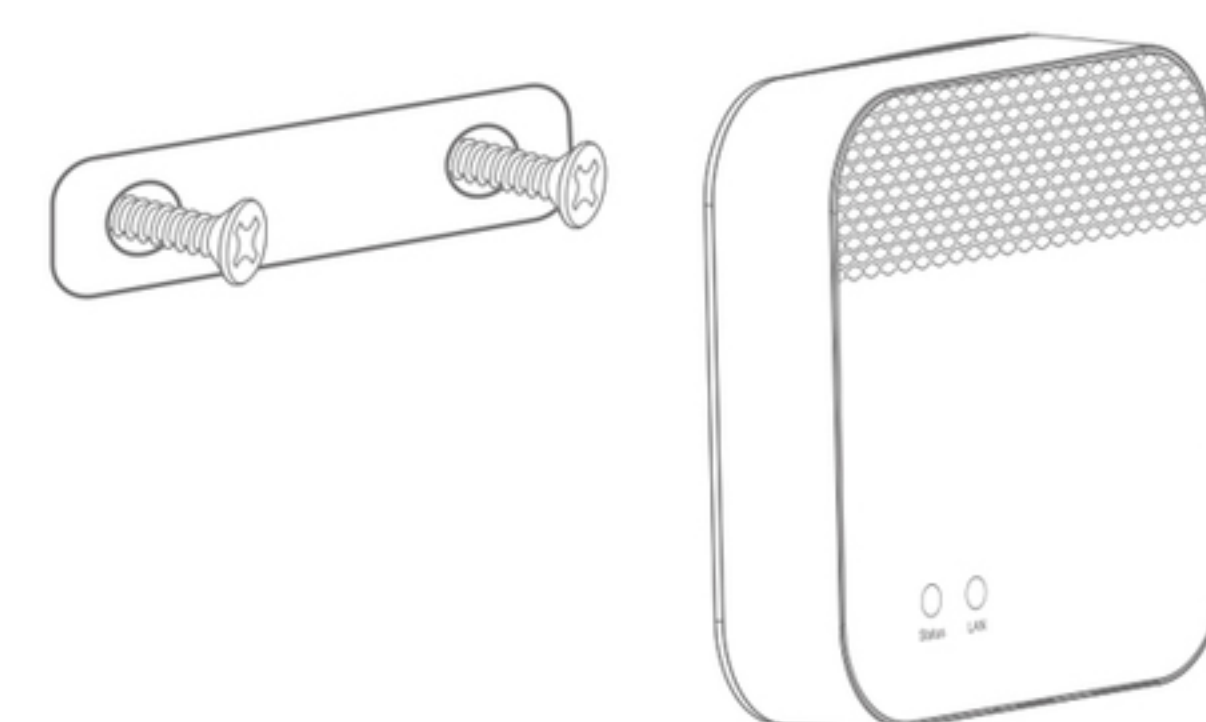
- Remove the back adhesive film to attach the sticker to a proper position.



- Drill holes with an electric drill on the wall according to the screw holes on the sticker.



- Install the expansion tubes into the drilled holes, and screw the screws into the expansion tubes.



- Finally, hang the gateway to the screws, and the installation is finished.

13 / Troubleshooting

1. Gateway can't be added to APP
 Check if the gateway is powered on, if the green LAN LED indicator is steadily on; check if the gateway has been bound by other user. If it's been bound by other user, the gateway needs to be unbound by other user before it can be added to new APP user account.
2. How to restore to factory settings
 Press resetting hole with pin key for 10 times continuously, the blue LED will flash slowly for 5 seconds, the gateway is reset: all devices are deleted from the gateway, the binding between the gateway and the APP is deleted, and all configuration information is also deleted.
3. The gateway often restarts abnormally
 Please use the original adaptor or adaptor that meets the power supply parameters requirements.

14 / Statement

--The information in the user manual is for reference only and does not constitute any form of commitment.
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