



Edge Hub M300 Online User Manual



Product Introduction:

The Edge Hub M300 is an easy-to-use yet powerful multi-protocol, multi-ecosystem edge hub. It features the built-in Aqara Studio Connect cross-protocol management application. This system supports Zigbee 3.0, Thread, Wi-Fi, Ethernet, Matter, BACnet, KNX, Modbus, and other industrial/smart home protocols devices. It enables cross-protocol and cross-ecosystem automation (e.g., Apple HomeKit, Matter, Home Assistant) with visual programming and web-based management, effectively resolving interoperability, scalability, and intelligent upgrades for wired/wireless systems in both legacy and modern commercial building automation.

Aqara Studio Connect Overview:

Aqara Studio Connect is a smart home ecosystem interoperability management application that unifies multi-protocol device integration and centralized control. It supports LAN access and remote access via Aqara IoT Cloud.

Core Capabilities

1. Multi-Protocol Compatibility

1) Aqara Link Protocol

- ✓ Aqara Zigbee sub-devices

- ✓ Aqara & third-party Matter sub-devices (limited to Aqara Home

App-compatible Matter devices)

2) Home Assistant Integration

- ✓ Supports importing third party devices via Aqara-developed Home Assistant drivers

- ✓ Synchronizes Home Assistant devices to the Aqara IoT ecosystem for unified management in the Aqara Home App

Note: Only Aqara-compliant device types/functions are supported; custom extensions are excluded.



3) Industrial IoT Protocols

- ✓ BACnet, KNX, Modbus, and other common industrial communication protocols

Automation Configuration (Two independent methods)

2. Aqara Studio Connect Visual Automation

- ✓ Drag-and-drop graphic interface
- ✓ Supports triggers, schedules, scenes, math/logic functions for complex rules

Aqara Home App Automation

- ✓ Unified management of Aqara/Matter/Home Assistant devices post-sync
- ✓ User-friendly automation setup for Aqara ecosystem users

3. Platform Management

Feature	Description
Family Overview	A statistical center for family information, covering online/offline status of home devices, top 10 offline devices statistics, and Aqara Studio Connect operation status. Helps users intuitively understand the operation status of both the Aqara Studio Connect system and connected home devices.
Integration Management	Supports multi-protocol device access and grouped management of devices with different protocols.
Device Management	Comprehensive management of multi-protocol devices connected to Aqara Studio Connect, including viewing basic device information, measurement points, communication configurations, and device logs. Also allows integration of Home Assistant devices into the App.
Space Management	During initial M300 binding, Aqara Studio Connect performs a one-time synchronization of spatial data from AqaraHome App. After



	synchronization, spatial data is maintained locally.
Account Management	Supports multi-user account creation, with newly added users having platform configuration permissions.
Log Management	Records device logs, Aqara Studio Connect communication logs, and user operation logs. Supports historical log queries for daily monitoring and troubleshooting.
Backup & Restore	Provides both automatic and manual backup mechanisms to ensure the security of user configuration data.

4. Access Methods

Local Access: Direct LAN connection to Aqara Studio Connect Web (low latency, high security).

Remote Access: Proxy-based cloud access via Aqara IoT domain (for off-site control).

*Version Note: This user manual corresponds to the current version. Refer to the latest documentation for updates.

Device Installation

The device can be placed on a table or mounted to the ceiling, the instructions are as follows:

Table Placement:

Place it on a flat table and be ensure the infrared emitting area on the front of the product is not blocked by any objects, do not place other objects around the device that block the infrared signal penetration. (Bracket is not needed when placing the

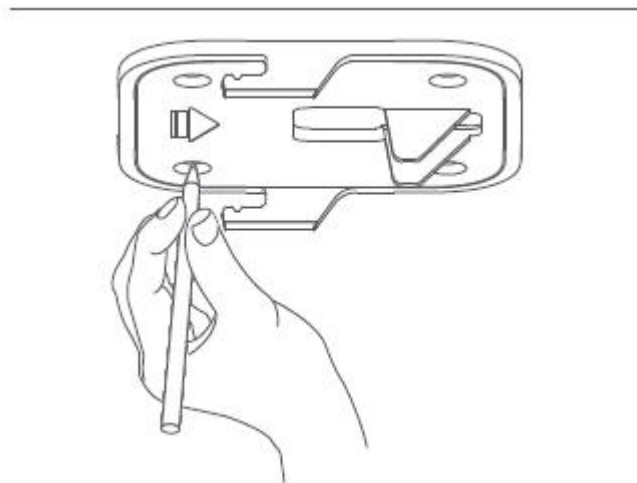


device on a table)

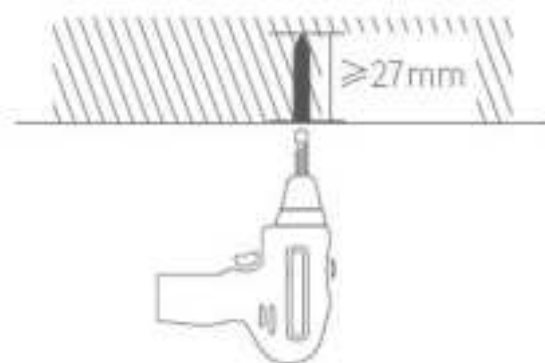


Ceiling Mounting:

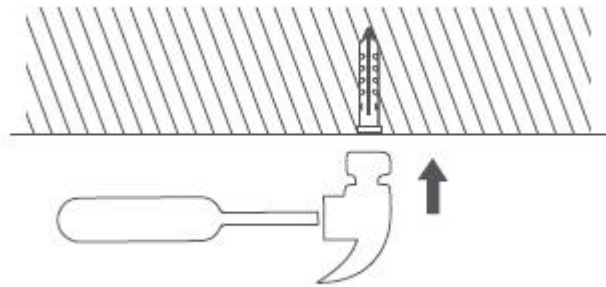
- 1) Press the mounting bracket firmly against the ceiling and use a marker or similar tool to trace the screw holes to mark their location.



- 2) Use a 4mm diameter drill bit to drill holes according to the marked positions, with a hole drilling depth ≥ 27 mm



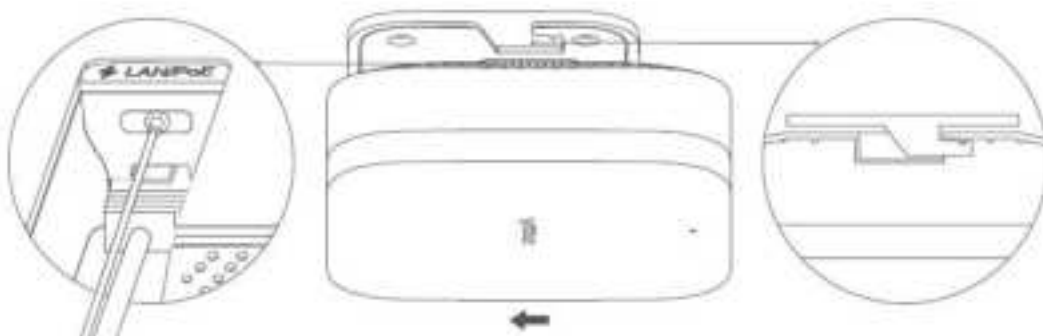
3) Use a tool to hammer the 4 expansion tubes into the drilled holes to ensure a flat surface



4) Lock the bracket into the expansion tube hole in the direction shown in the picture (if there is a power cable or Ethernet cable at the top, please thread the cables through the bracket wiring hole first, and then tighten the screws)



5) Align the bracket at the bottom of the device with the bracket buckle, and push the product in the opposite direction of the bracket hooks until it is buckled tight (make sure the power cable or Ethernet cable is properly connected before it is tightened).





2. Select the power supply method

This product can be powered either through a USB-C cord or PoE using an RJ45 connected Ethernet cord.

Device Connecting & Initialization

1. Download the Aqara APP

Search for "Aqara Home" in the Apple App Store, Google play, Xiaomi GetApps, Huawei App Gallery, or scan the following QR code to download the Aqara Home App.



2. Set up the Hub

- ① Choose the installation location of the hub: the hub should be 2-6 meters away from the router, and avoid metal objects between the hub and router or around the hub.

- ② Select power supply port:

Type C: Please use a 5V $\overline{=}$ 2A adapter (not included in the box) and a USB power cable (included in the box) to power the hub.

RJ45 PoE: Use a POE-supported router or network switch and a RJ45 cable to power the hub.

* When both Type C and RJ45 PoE power supply are connected, the device will prioritize power supply from the RJ45 PoE.

- ③ Wait for the yellow indicator light on the hub to change from solid to flashing.
- ④ Select the networking method:



Wireless connection: Connect your phone to a 2.4/5GHz Wi-Fi network. After powering on the hub, open the Aqara Home APP and follow the instructions to complete the network configuration.

Wired connection: Using a wired network connection can effectively avoid connection instability caused by wireless interference in the environment. If possible, it is recommended to connect the hub via wired network. After powering on the hub, use a RJ45 cable to connect the hub's RJ45 port to a LAN port on your router. Enter the Aqara Home APP and follow the instructions to complete the network configuration.

3. Add the Product to the Aqara Home App

Open the Aqara Home app, tap “Home” and then tap “+” in the top right corner to enter the “Add Device (Accessory)” page, select “Edge Hub M300”, and add it according to the instructions in the Aqara Home app. After a successful connection, the status indicator light will be solid blue.

*This product is compatible with Aqara MagicPair technology and can be automatically discovered by the Aqara Home app when it is powered on and in pairing mode. Please select the device and follow the instructions in the app to complete the network configuration.

*Please place your phone as close to the hub as possible when connecting, and make sure that the phone and the hub are on the same Wi-Fi network.

Trouble Shooting Pairing Failure:

- ① After powering on, please press the function button for more than 10s until the yellow light flashes, then retry adding it in the APP.
- ② Check if your router has enabled settings that prevent unauthorized devices from connecting, as this may block the device from accessing the network properly.
- ③ Check if your router has enabled AP isolation, preventing your phone from



discovering the device within the local network.

- ④ It is recommended not to connect to bridged networks.

Connecting to HomeKit

Open the Apple "Home" app, click "+" in the upper right corner to enter the Add Accessories page, scan or manually input the HomeKit setup code (HomeKit QR code) on the product's side, and bind the device to HomeKit.

Here are some common troubleshooting steps for HomeKit addition failures:

- ① Error Message: "Unable to add accessory". Repeated connection failures have caused error data in the iOS cache. Please restart the iOS device (iPhone or iPad) reset the hub and try again.
- ② Error Message: "Accessory added". Please restart the iOS device and reset the hub, then manually enter the HomeKit setup code to add the hub.
- ③ Error Message: "Accessory not found". Please reset the hub, wait for 3 minutes, and add it again by manually entering the HomeKit setup code.

Connecting to Third-Party Matter Ecosystems

Please use the third-party Matter app to scan the Matter QR code on the user manual or enter the 11-digit setup code to add the device. If the Matter QR code is missing, it can also be found in the Aqara Home app - Device page - Expose to Matter.

*Note: Please keep the QR code on the product or in the user manual in a safe place.

4. Binding Child Devices

1) Bind Zigbee and Bluetooth child devices

Please operate according to the child device's user manual, and select the Edge



Hub M300 to complete the addition.

2) Bind Matter Over Thread devices

This product serves as a Border Router in the Thread network and supports connecting sub-devices in the Matter Over Thread protocol. Please follow the binding instructions in the user manual for the Thread child device. Thread devices do not

5. Aqara Studio Connect User Guide

1) Accessing Aqara Studio Connect

After completing the setup of Edge Hub M300, open the Aqara Home App, navigate to the device page, and tap "Aqara Studio Connect System Service" to enter the Aqara Studio Connect function page. Tap "Access Aqara Studio Connect on PC", then choose either "Internet Access" or "Local Network Access". Copy the link, paste it into a web browser, and proceed to the Aqara Studio Connect web interface.

2) Logging in to Aqara Studio Connect

If this is your first time using Aqara Studio Connect, log in with the default username and password: Open the Aqara Home App, go to the device details page, and tap "Aqara Studio Connect System Service" Select "Reset Admin Password"—a pop-up will display the default login credentials (username/password). Use these to log in to the Aqara Studio Connect web portal. To modify your password, please do so via the Aqara Studio web interface.

6. Other Functions

For more device functions, please log in to the Aqara Home app to explore them.

Description of Indicator Lights

Indicator Light Status	Device Status
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Solid Yellow Light	Turning On
Flashing Yellow Light	Waiting to Connect
Flashing Blue Light	Network Connecting
Slow Flashing Blue Light	Connection Successful and Account Connected
Solid Blue Light	Functioning Normal
Solid White Light	10 mins with No Network Configured
Solid Purple Light	Network Standby Mode
Flashing Purple Light	Enable Adding Child Devices
Slow Flashing Yellow Light	Firmware Upgrading
Off	Indicator Light Turned Off/Power Off/Sleep Mode

Product Specifications

Model: HM-G04E/HM-G04D

Power Input: 5V $\pm$ 2A

Dimensions: 105×105×36.5 mm

PoE Input: 48V $\pm$ 0.27A

Wireless Protocols: Wi-Fi IEEE 802.11 a/b/g/n/ac 2.4 GHz / 5 GHz, Zigbee/Thread IEEE 802.15.4, Bluetooth

Operating Temperature: -10°C ~ 50°C

Operating Humidity: 0 ~ 95% RH, non-condensing

Notice

Communication between iPhone, iPad, Apple Watch, HomePod, HomePod mini or



Mac and the HomeKit enabled Edge Hub M300 is secured by HomeKit technology.

Use of the “Works with Apple” badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

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