



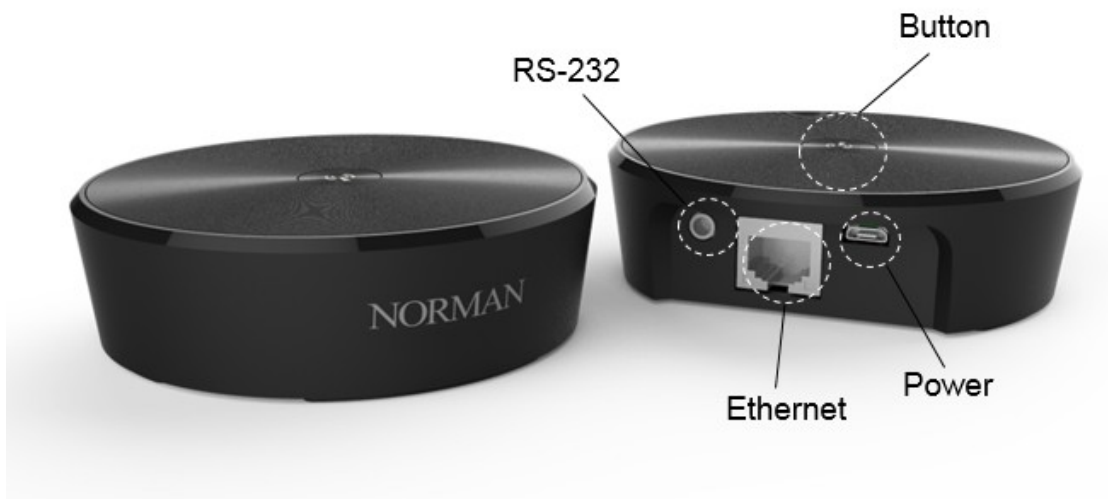
Norman Hub

4. Norman Hub Preparation Notes

1. Sync Network of each remotes. In this case, all the shutters assigning to the remote can be controlled by APP via Hub. If you have some rooms don't want to control by APP via Hub, you can skip this step.
2. Finished shutter assignment of each room to corresponding Remote first.
3. Each room needs a Repeater installed. If the signal needs pass to different floor, you will need Repeater installed around the stairs as well.

5. Norman Hub Installation

1. Connect Norman Hub to adaptor via micro USB cable.
2. Network connectivity settings:
 - Ethernet: Connect Norman Hub to home AP via Ethernet cable.
 - WiFi:
 - Find SSID "MBAHUB_XXXXXX(last 6 digital of MAC)" by your smart phone.
 - Norman Hub WiFi password: "qwertyuiop"
 - Open Norman APP > Connect to Hub > Menu > Hub Info > Home AP Settings > Follow the UI instruction connecting Norman Hub to Home Wifi.



6. Norman Hub Specification

NO	Item	Specification
1	Power source	5V, 1A, USB micro B type receptor
2	Radio type	Proprietary 2.4G RF WiFi 2.4G
3	WiFi standard	IEEE. 802.11.b,g,n
4	Interface	Ethernet 10Base-T/100Base-Tx
5		USB micro B
6	Power consumption	RS232
		<1.5W



	Operation temperature		0°C~45°C
7	Storage temperature		-30°C~70°C
8	Accessory		Power adapter
9			USB cable
10	Dimension (mm)	Ethernet cable	Input: 100V~240V Output: 5V / 1A
		OD94 x H27.6	Black, 1M
	Weight (g)	176g	Black, 1M, CAT.5E (100Mbps)

7. Norman Hub Button Definition

No	Name	Description
1	Button	8. Press once: Join network. 9. Press for 3 seconds in to user setting mode: 1. Press one time: Search shutters. 2. Press two times: Station mode switch to AP mode. 3. Press three times: Norman Hub factory reset.

10. Norman Hub Functions

No	Function	Description
1	Join Norman Hub to network and search shutters of the environment	1. Power on Norman Hub, orange LED will blinking while boot up. 2. Once system up, LED will blinking in Red and Green as initial status. 3. Press SET of remote into setting mode. 4. Press Norman Hub. 5. Press Up of remote around Hub. 6. Norman Hub will blinking in White while join network. 7. Once Hub joined network, LED will blinking in Blue and White as searching shutter status. 8. Once finished searching, LED will on in white as normal status.
2	Manually trigger searching function	1. Press Norman Hub for 3 seconds into user setting mode. The LED will on in Blue. 2. Press one time in 5 seconds right after #1. 3. LED will blinking in Blue and White as searching shutter status. 4. Once finished searching, LED will on in white as normal status.
3	Station mode to AP mode	Station mode means Norman Hub connecting to home AP. AP mode means Norman Hub worked as standalone AP. 1. Press Norman Hub for 3 seconds into user setting mode. The LED will on in Blue. 2. Press two times in 5 seconds right after #1. 3. Norman Hub will switch to AP mode from Station mode. 4. Once AP mode working successfully, you will see MBAHUB_XXXXXX



		SSID by your smart phone.
4	Factory Reset	1. Press Norman Hub for 3 seconds into user setting mode. The LED will on in Blue. 6. Press three times in 5 seconds right after #1. 7. Norman Hub will reboot and factory reset. 8. Once system up, LED will blinking in Red and Green as initial status.
5	AP mode (can be found by smart phone)	1. By default (without any setting) Norman Hub will be AP mode in following situation: ● Not connecting to Home AP. ● No Ethernet cable connected. 2. Once AP mode working successfully, you will see MBAHUB_XXXXXX SSID by your smart phone. 3. The default password will be "qwertyuiop".
6	Connecting to Home AP via Ethernet cable	1. Connecting Norman Hub to Home AP by Ethernet cable. 2. With Ethernet connection, Norman Hub is working as Station mode. No SSID will be found.
7	Reboot	1. Re-plug power cable. 2. Orange LED will blinking while boot up.

Federal Communication Commission Interference Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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 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.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Industry Canada statement:

This device complies with ISED's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) le dispositif ne doit pas produire de brouillage préjudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement:

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with greater than 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à plus de 20 cm entre le radiateur et votre corps.