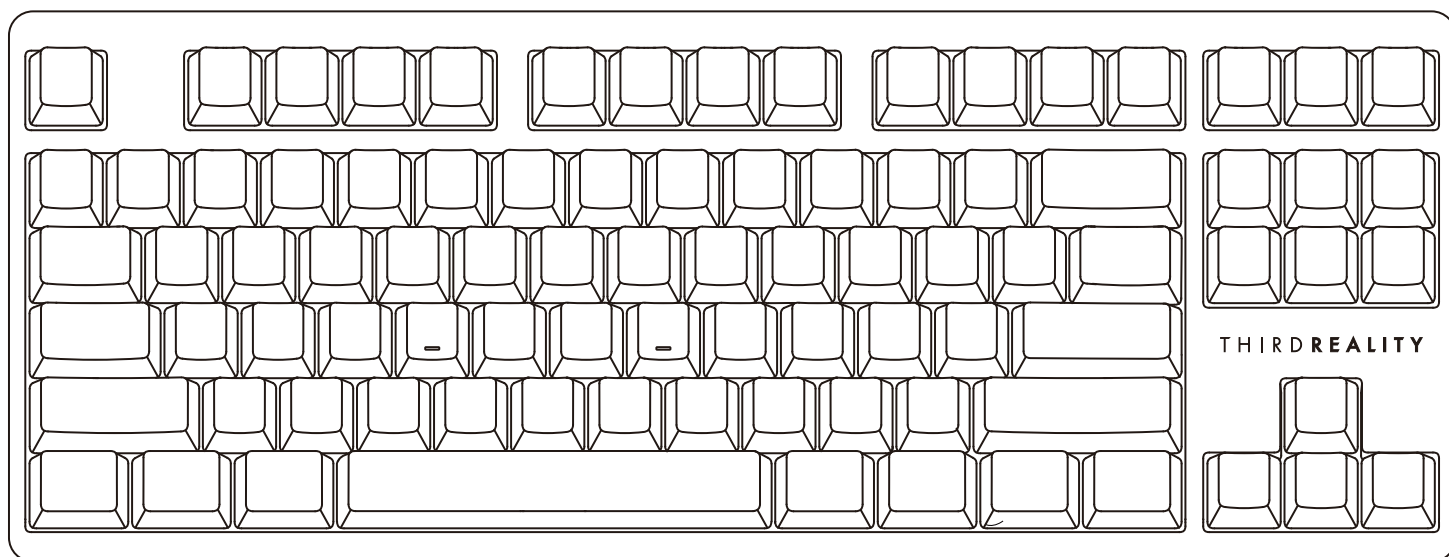


Smart Mechanical Keyboard MK1

User Manual



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Product Overview

The MK1 is a smart mechanical keyboard that integrates customizable smart buttons with a traditional keyboard layout — offering a seamless way to control your smart home devices directly from your desk.

- Yellow switch design for smooth, quiet, and responsive typing
- 12 programmable smart keys for lights, scenes, curtains, and more
- Compatible with Matter and major smart home platforms
- Ideal for both office and gaming environments

MK1 – Smart control at your fingertips.

Product Specifications

USB Speed & Port Type	USB2.0 – Type A
Voltage & Current	5V 500mA (Max)
Key Caps	ABS - White
Switch Type	Linear Switch - Yellow
Products Size	L-362mm * W-135mm * H-28/35mm
Product Weight	750g

LED & Matter Function Description

Function	Indicator LED	Operation	Comment
Factory Reset/ Re-Enter Pairing Mode	ESC Key Blue LED flashes about 5s	Press and hold Matter(Menu) + Pause + ESC in sequence for 3 seconds	The pairing mode lasts for 15 minutes, and the first 30 seconds are in fast mode
Function Keys	F1~F12 Backlight Green LED on for 5s	Press and hold Matter(Menu) + F1~F12 in sequence	The single click function in the app shows that it is pressed

*To customize keyboard functions, please visit: <https://mk1.3reality.com/>

General Pairing setup steps

1. Connect the Keyboard

Plug the keyboard into your computer's USB port and ensure the system recognizes it.

2. Enter Pairing Mode

The ESC key backlight will flash blue for 5 seconds, indicating the keyboard is in pairing mode.

If not, press and hold Matter (🌟) + Pause + ESC (in sequence) for 3 seconds to restore the keyboard to factory settings and re-enter pairing mode.

3. Prepare Your Smart Home Platform

Open your smart home app (e.g., Apple Home, Home Assistant, SmartThings) and ensure both the app and hub are updated to the latest version or firmware.

4. Add the Device

Tap "Add Device" in your smart home app, then scan the Matter QR code or enter the pairing code located on the back of the keyboard to complete the setup.

5. Assign Automations

Once the keyboard is paired, you'll see multiple new devices appear in your device list. Assign different automations to each one as needed.

6. Customize Keyboard Functions

To further personalize your keyboard, visit:

<https://mk1.3reality.com/>

Setup with 3R-Installer



1. Download the App


Install the 3R-Installer App from the App Store or Google Play. Make sure you're connected to a 2.4GHz Wi-Fi network with stable internet access.

2. Connect the Keyboard

Plug the keyboard into your computer's USB port. Ensure the system recognizes the device.

3. Enter Pairing Mode

The ESC key backlight will flash blue for 5 seconds, indicating that the keyboard is in pairing mode.

If not, press and hold “Matter () + Pause + ESC (in sequence) for 3 seconds to restore factory settings and enter pairing mode.

4. Pair via the App

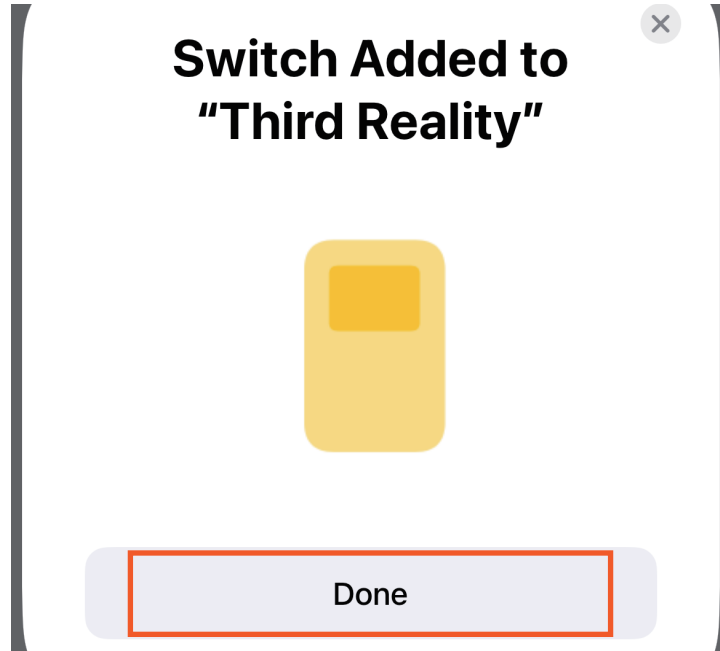
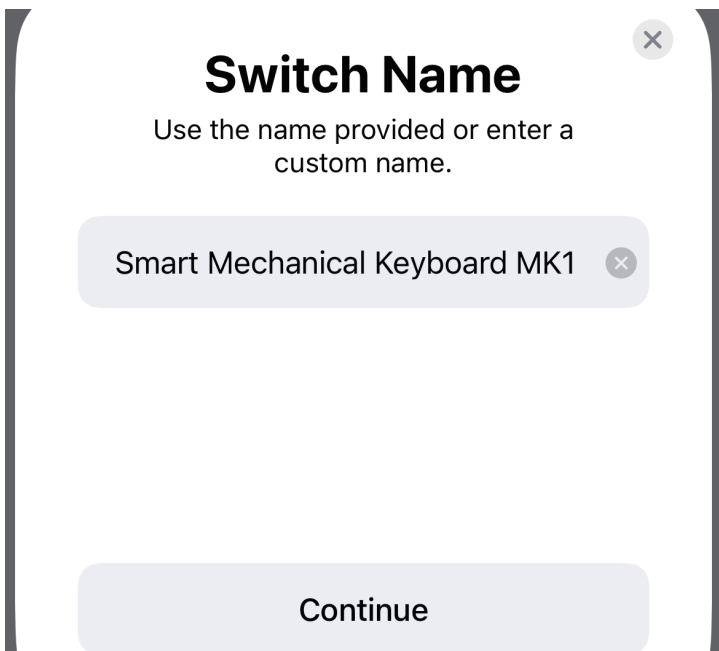
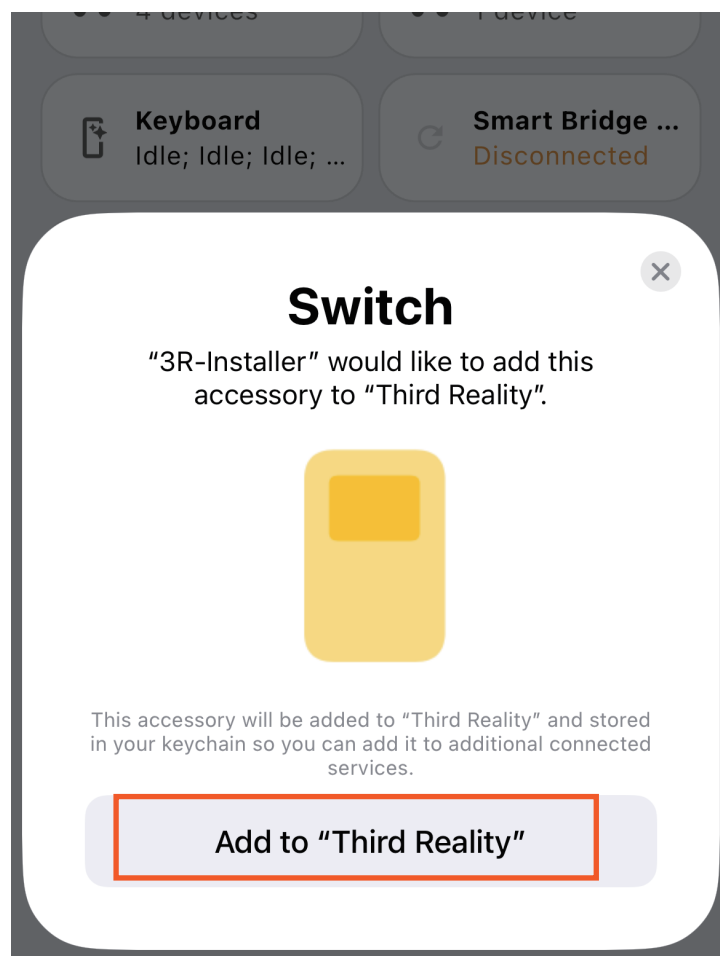
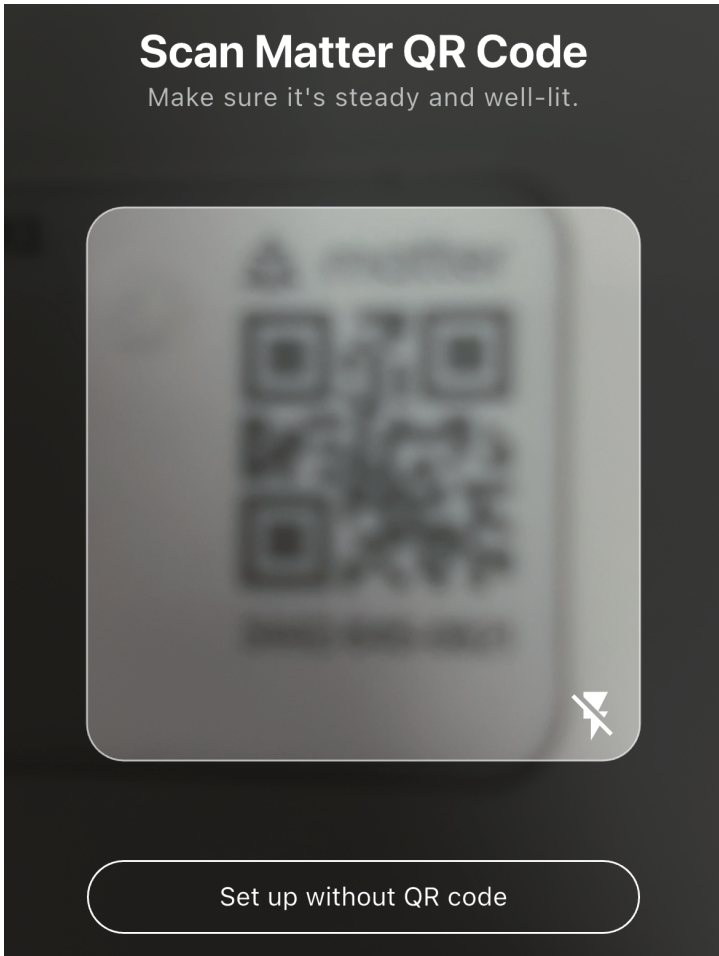
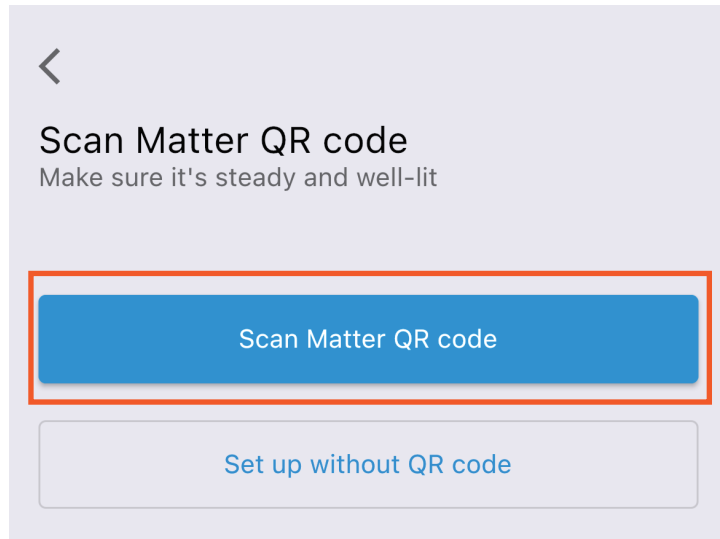
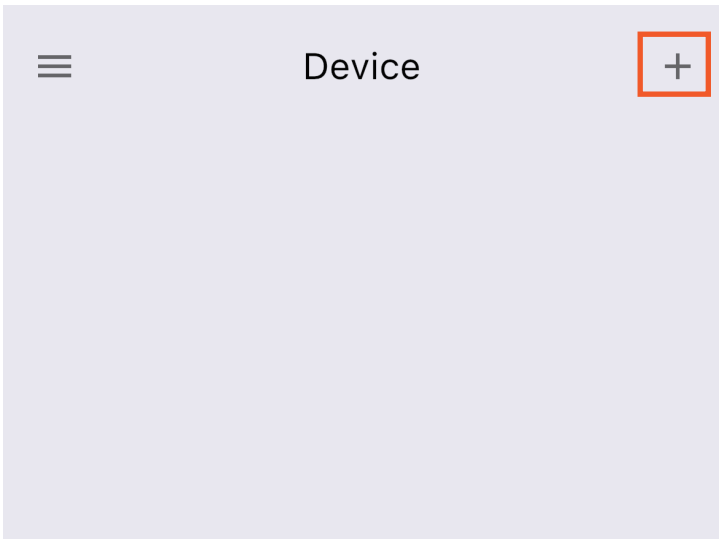
Open the 3R-Installer App, tap the "+" icon in the top-right corner, then scan the Matter QR code located on the back of the keyboard. Follow the on-screen instructions to complete setup.

5. Update Firmware (Optional)

Long-press the light icon on the device card to enter the detail page. Tap “Check Updates” to perform firmware OTA.

6. Enable Multi-Admin (Optional)

Tap “Link with Matter-Enabled Services” to add the keyboard to another Matter controller via multi-admin.



3R-VPN-OP

All Device 18Matter Zi... Smart Bridg... Smart Bridg... Smart

Smart Mecha...
Idle; Idle; Idle; ...


18Matter Zigb...
4 devices

Smart Bridge ...
1 device

Keyboard
Idle; Idle; Idle; ...

Link with Manual Setup Code or Scan the QR Code

Effective duration: 2 minutes 59 seconds

1238-161-5420 



Done

Smart Mechanical Key...

Generic Switch Idle

Generic Switch Idle

Generic Switch Idle

Generic Switch Idle

Transferring Image h

Important: when transferring image, always keep the app in foreground. Otherwise, the progress will fail immediately. h

16/100

Generic Switch Idle

Generic Switch Idle

Version v1.00.01

Transferring Image 15 %

Setup with Apple Home



Compatibility Requirements:

iOS Version: 16.6 or later

Matter-Compatible Controller: HomePod, HomePod mini, or Apple TV

1. Connect the Keyboard

Plug the keyboard into your computer's USB port. Ensure your system recognizes the device.

2. Enter Pairing Mode

The ESC key backlight will flash blue for 5 seconds, indicating that the keyboard is in pairing mode.

If it doesn't, press and hold Matter (🏠) + Pause + ESC (in sequence) for 3 seconds to reset to factory settings and enter pairing mode.

3. Open the Home App

Launch the Apple Home App on your iPhone or iPad.

4. Add Accessory

Tap the "+" icon and select "Add or Scan Accessory."

5. Scan the Matter Code

Use your phone to scan the Matter QR code located on the back of the keyboard.

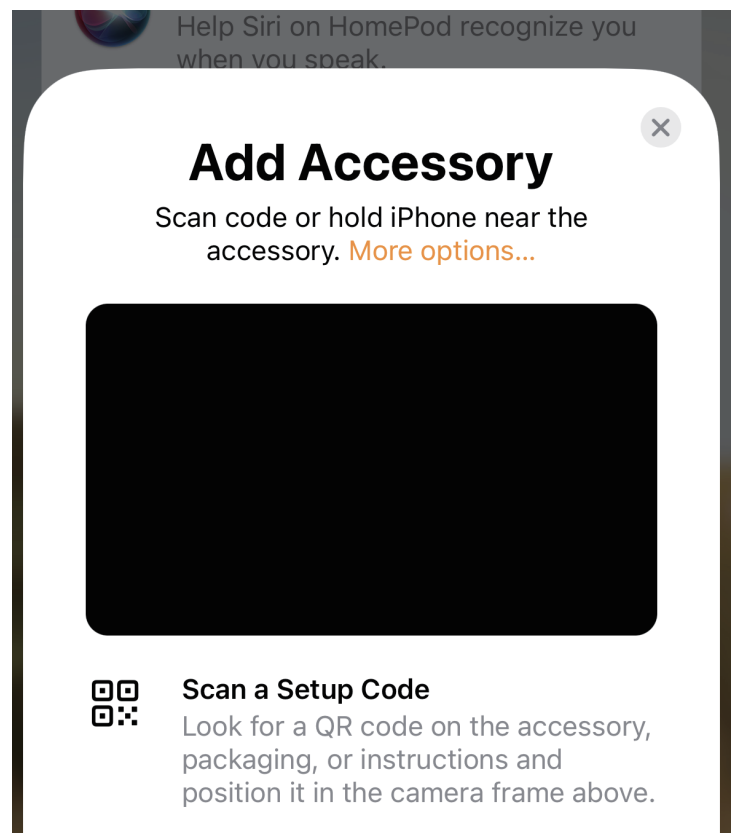
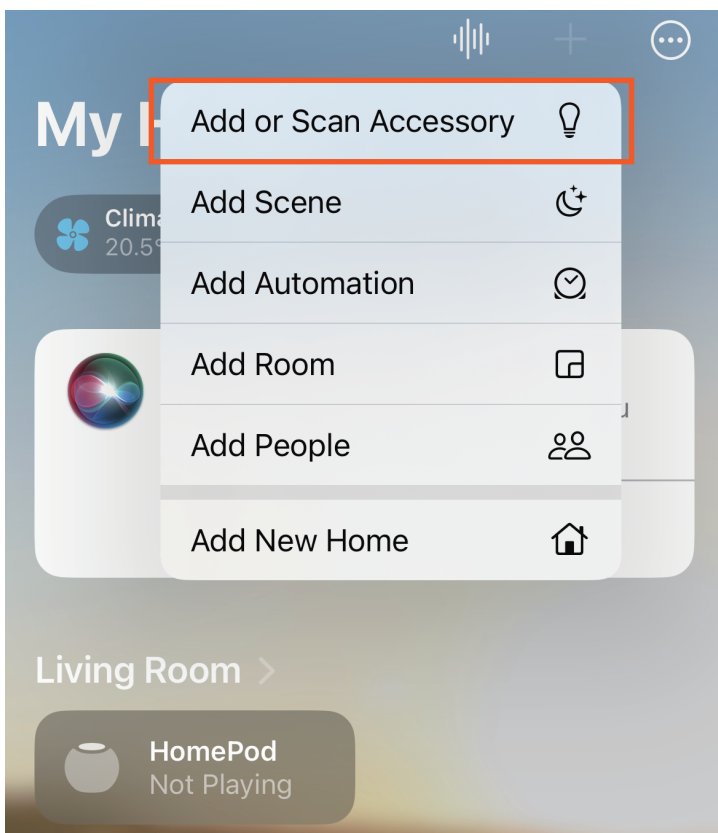
6. Customize Setup

Choose a location and rename the keyboard if desired.

7. Complete Pairing

Once added, the keyboard will appear in your Home app's device list.

You can now assign actions or automations to specific keys as part of your smart home routines.



Switch



This accessory will be added to "Apple Home" and stored in your keychain so you can add it to additional connected services.

Add to Home

Programmable Switch Location

Bedroom
Living Room
MeetingRoom
Test
Dining Room (Suggested)

Continue

Programmable Switch Name

Use the name provided or enter a custom name.

Smart Mechanical Keyboard MK1

Continue

Programmable Switch Added to My Home



Done

Other



No Response



Smart Mech...



Unknown
No Response



Unknown
No Response

Smart Mechanical Keyboard MK1
 There are 12 unconfigured buttons.

Smart Mechanical Keyboard...

Room Living Room

Add to Home View

Include in Favorites

Tiles hidden from Home View will still appear in the Room View. Favorites will appear in their own section.

BUTTON 1

Single Press Add

BUTTON 2

BUTTON 11

Single Press Add

BUTTON 12

Single Press Add

Manufacturer	ThirdReality
Serial Number	3RM07-5193-00040
Model	Smart Mechanical Keyboard MK1
WLAN	3R-VPN-OP
Firmware	v1.00.05

Turn On Pairing Mode

Remove Accessory

BUTTON 11

Single Press Add

BUTTON 12

Single Press Add

Manufacturer ThirdReality

Serial Number 3RM07-5193-00040

Model Smart Mechanical Keyboard MK1

WLAN 3R-VPN-OP

Accessory Ready to Connect
 "Smart Mechanical Keyboard MK1" is now in pairing mode. Copy and paste the setup code to connect.

Setup Code: 2586-822-0980

Dismiss Copy Code

Setup with Home Assistant



Compatibility:

Home Assistant with Matter integration

1. Plug the keyboard into your computer's USB port and ensure the system recognizes it.
The ESC backlight flashes blue for 5 seconds, indicating that the keyboard is in pairing mode. If not, press and hold Matter (✳️) + Pause + ESC IN SEQUENCE for 3 seconds to restore the keyboard to factory settings.
2. Use the Home Assistant App on your phone, go to Settings → Devices & Services, Click "+ Add Integration," select "Matter," and follow the instructions to add the keyboard by scanning the QR code on the back.
3. Once paired, the device will show up in your HA dashboard under "Devices."

4. Create Automation

Method 1: Using the UI

1. Go to Settings > Automations & Scenes
2. Click Create Automation
3. Choose "Start with empty automation"
4. For the trigger:
 - Select "Device"
 - Choose your Third Reality keyboard
 - Select which button press should trigger the automation
5. Add actions (what you want to happen when the button is pressed)

Method 2: Using YAML

yaml

automation:

- alias: "Third Reality Button 1 Pressed"

trigger:

platform: device

device_id: [your-device-id]

domain: [button-domain] # Typically 'button' or 'sensor'

type: [press-type] # Like 'single', 'double', 'long_press'

action:

- service: [service.to.call]

target:

entity_id: [entity.to.control]

Here is an example

type: pressed

device_id: a80f331edxxxxxxxxxx02aae11bff6e4

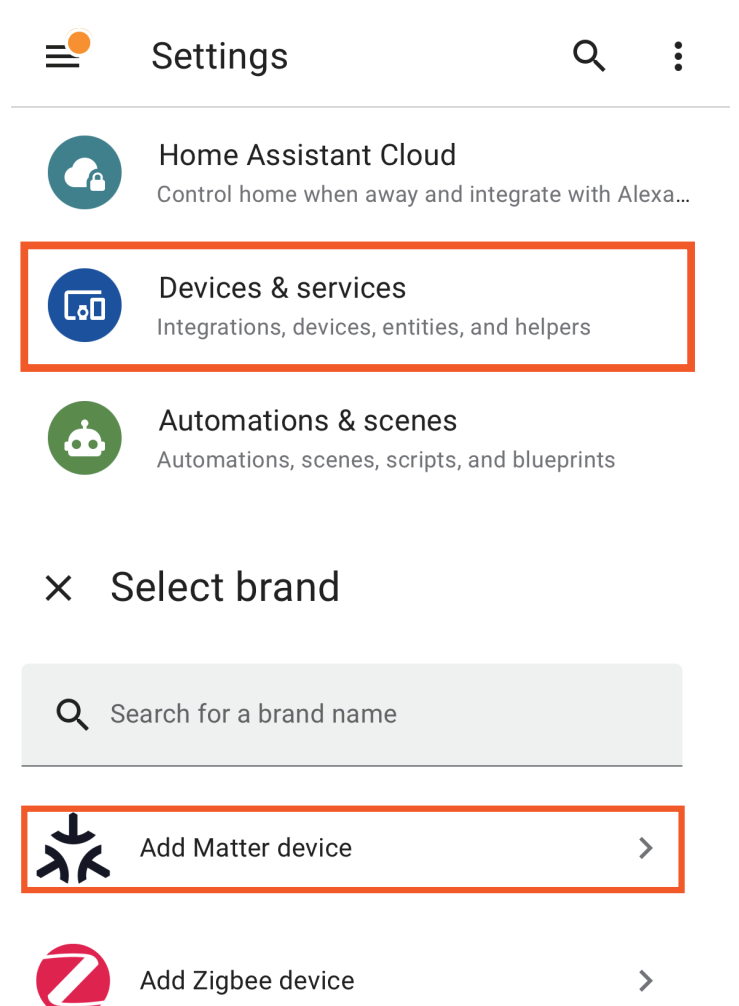
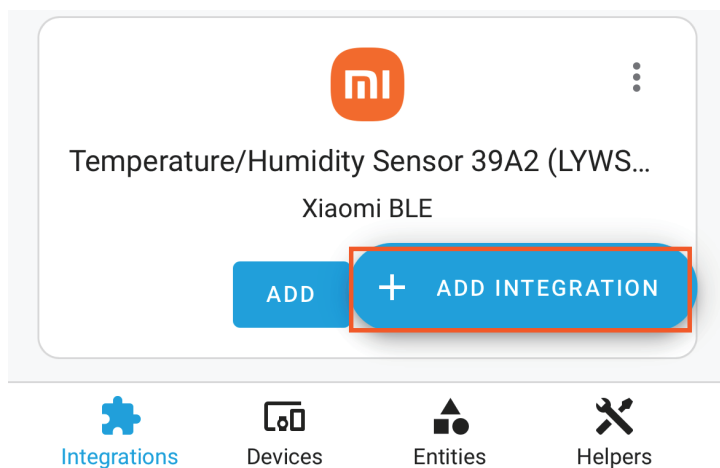
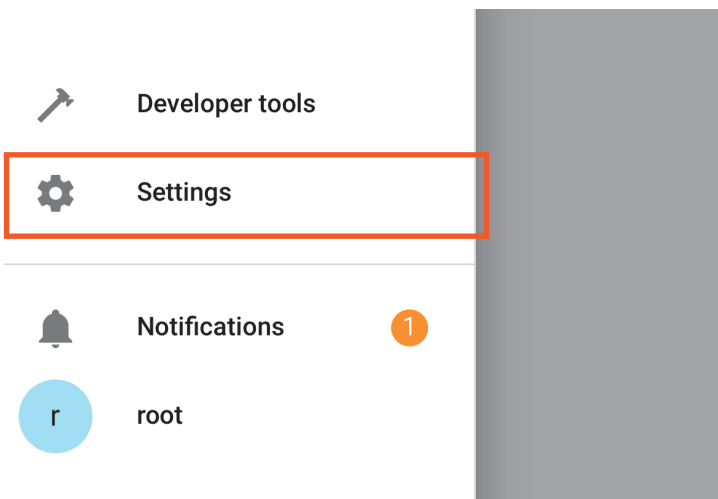
Please keep the device as yours. Do Not copy this example ID.

entity id: event.keyboard_an_niu_1

Entity ID can be configured by entering: "event.keyboard" and the rest will pop out for you to choose

domain: button

trigger: device



✕ Add Matter device

Is your device already added to another Matter controller?

No. It's new.

My device is brand new or factory reset.

Yes. It's already in use.

My device is connected to another controller. >

Add Accessory

Scan code or hold iPhone near the accessory. [More options...](#)



Switch

"Home Assistant" would like to add this accessory to "Home Assistant".



This accessory will be added to "Home Assistant" and stored in your keychain so you can add it to additional connected services.

Add to "Home Assistant"

Switch Name

Use the name provided or enter a custom name.

Smart Mechanical Keyboard MK1 ✕

Continue

Switch Added to "Home Assistant"



Done

← Keyboard ✎

Diagnostic

+12 disabled entities

ADD TO DASHBOARD

Automations +

No automations have been added using this device

Setup with Samsung SmartThings



Compatibility Requirements:

Android: SmartThings App version 1.8.10.21 or later

iOS: SmartThings App version 1.7.09 or later

Matter-Compatible Controller: SmartThings Hub V2, V3, or Aeotec Smart Home Hub

1. Launch SmartThings App


Open the app, tap the “+” icon, and select “Matter” to start adding a new device.

2. Connect the Keyboard

Plug the keyboard into your computer’s USB port and make sure it is recognized by the system.

3. Enter Pairing Mode

The ESC key backlight will flash blue for 5 seconds.

If not, press and hold Matter () + Pause + ESC (in sequence) for 3 seconds to restore factory settings and activate pairing mode.

4. Scan the QR Code

Use the app to scan the Matter QR code located on the back of the keyboard.

5. Complete Setup

Select your SmartThings Hub to connect. On iOS, you may be asked to add the device to your iCloud account, create an accessory name, and tap Continue.

6. Check Device

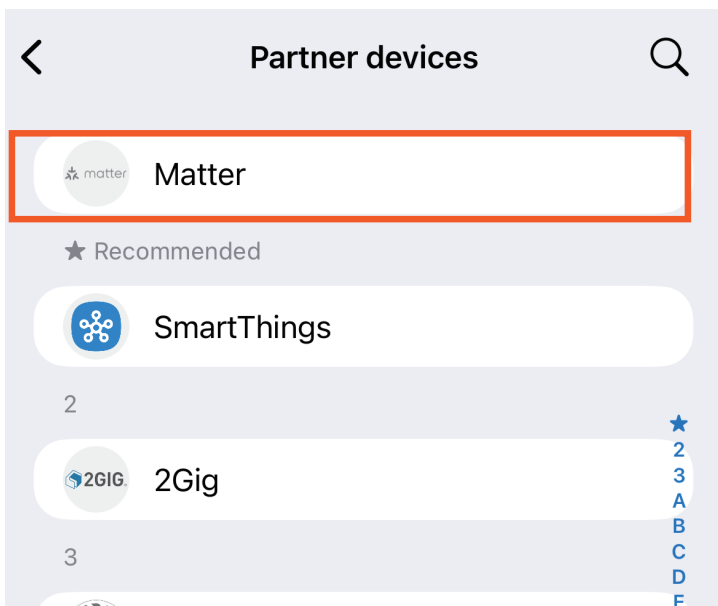
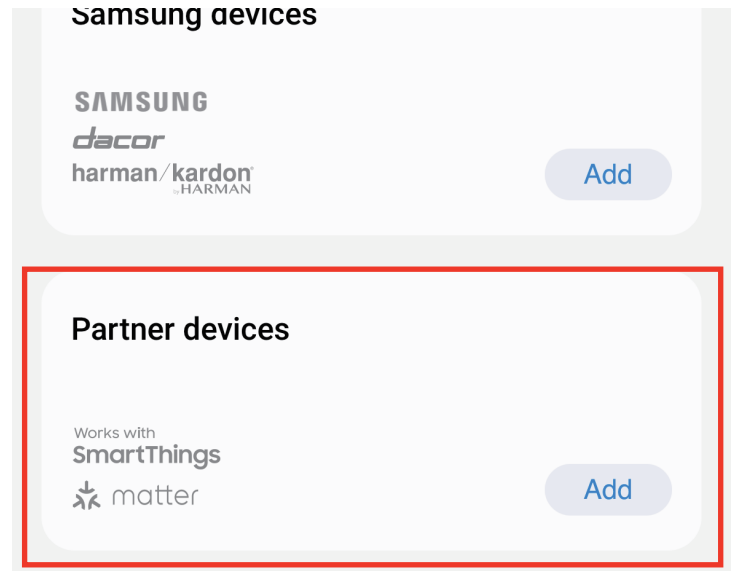
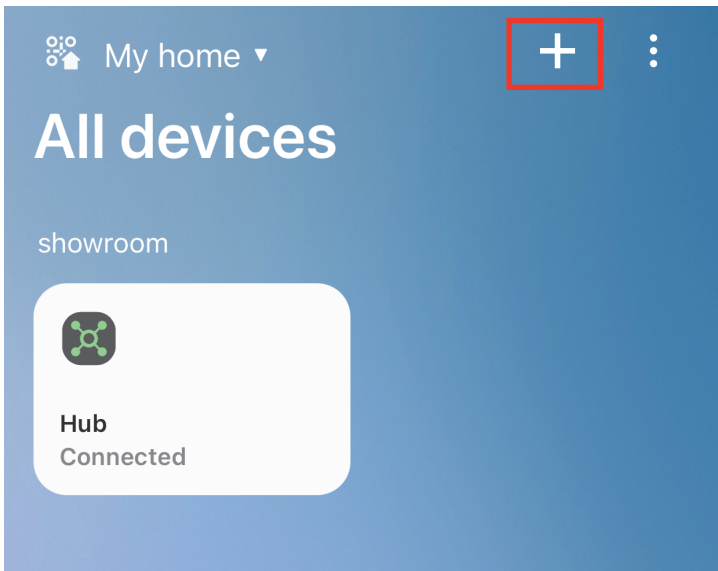
Once added, the keyboard will appear in your device list and can be used in SmartThings automations.

7. Share with Other Matter Ecosystems (Multi-Admin)

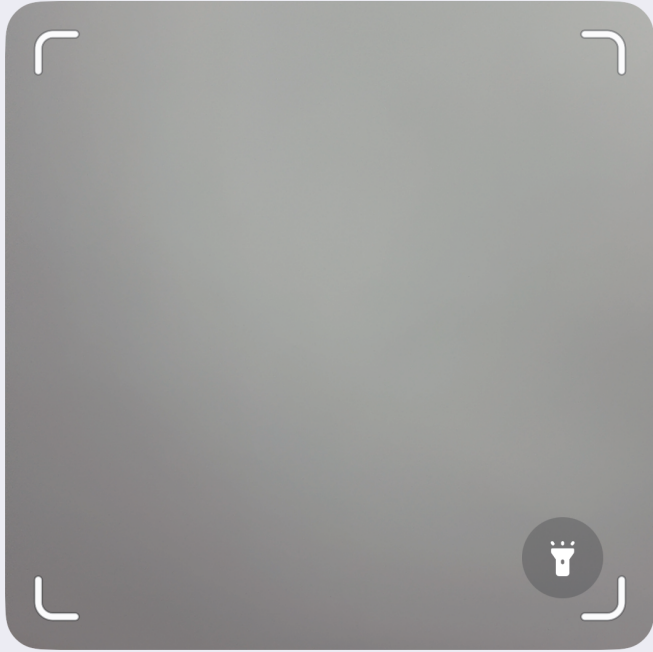
To pair with another Matter ecosystem:

Open the device detail page → tap “Share with other services” → tap “Share device.”

A QR code and numeric code will be shown. Open the other Matter-certified app, scan the code or enter the setup number, and follow its setup flow.



Scan QR code




Find the QR code on your device or packaging.



Accessory

"SmartThings" would like to add this accessory to "iCloud Account".



This accessory will be added to "iCloud Account" and stored in your keychain so you can add it to additional connected services.

Add to "iCloud Account"


Accessory Name

Use the name provided or enter a custom name.

Smart Mechanical Keyboard MK1

Continue

Accessory Added to "iCloud Account"



Done

Success!

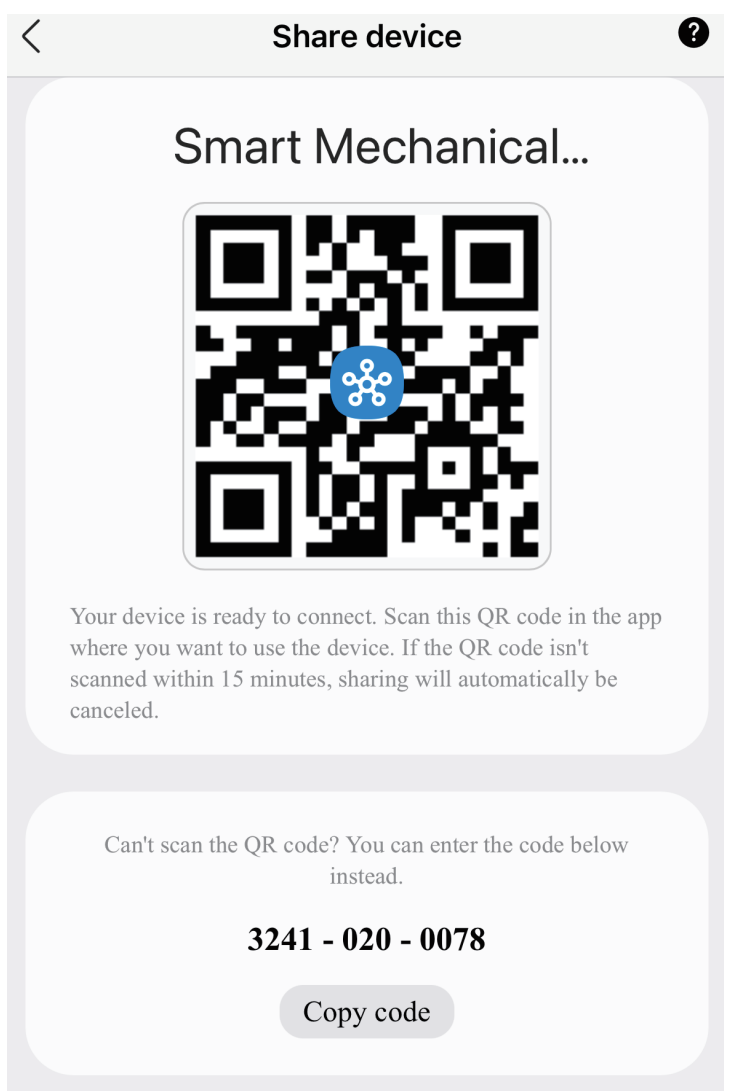
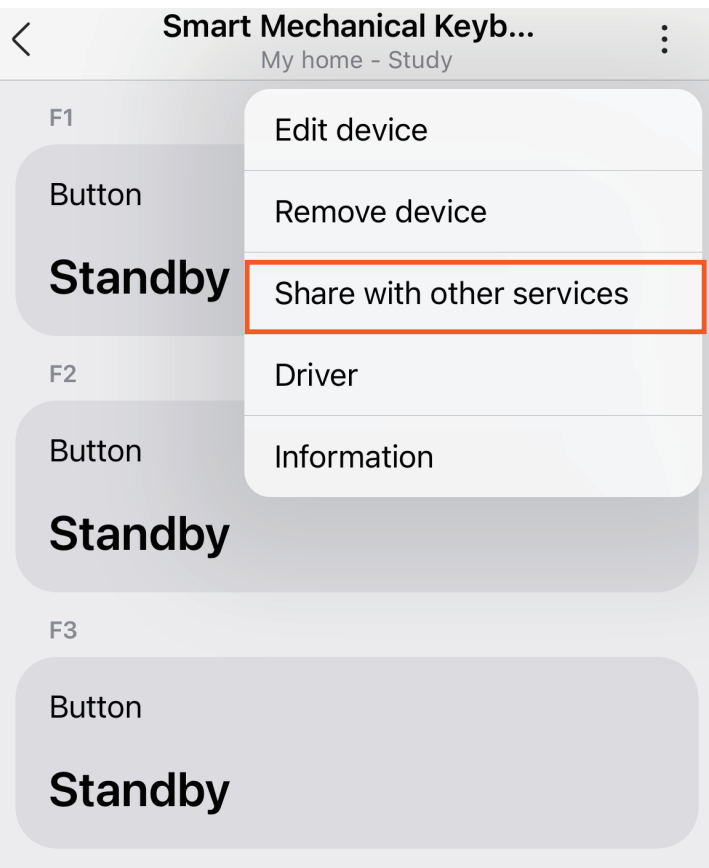
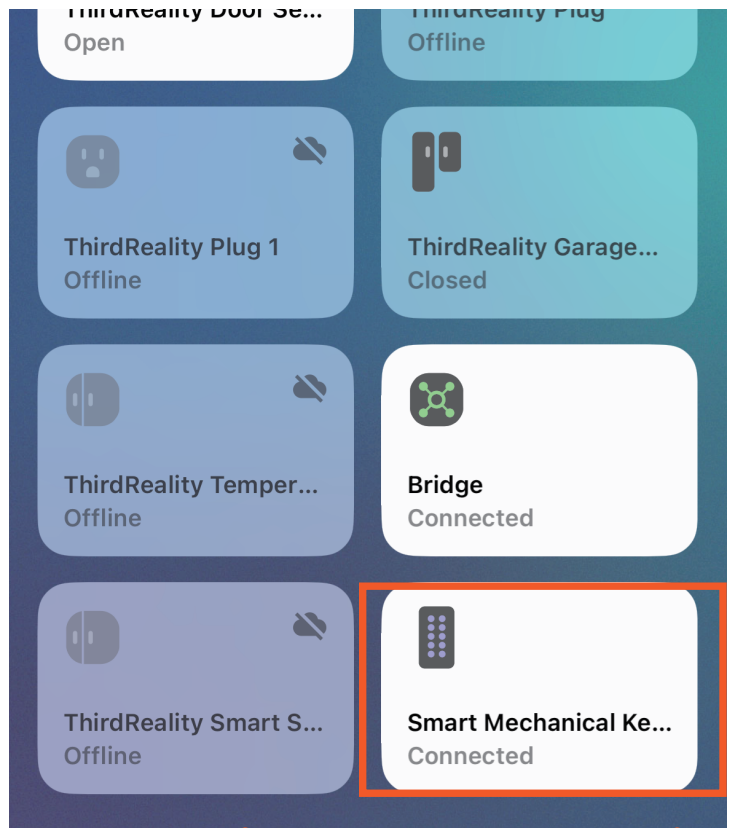


Edit your device's info so you can easily use it with a voice assistant.

Location
[My home](#)

Room
[Study](#)

Device name
Smart Mechanical Keyboard MK1



Health Warning

Using a keyboard may cause serious injury to hands, wrists, arms, neck, or back.

To reduce the risk of injury:

- Read and follow all ergonomic guidelines.
- Take frequent breaks.
- Adjust your workstation to promote a comfortable typing posture.

If you experience persistent discomfort, pain, numbness, or tingling while using the keyboard, stop using it immediately and consult a qualified healthcare professional.

FCC Regulatory Conformance

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's 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 important announcement.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

RF Exposure

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

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

Limited Warranty

For limited warranty, please visit

<https://thirdreality.com/faq-help-center/>

For customer support, please contact us at info@3reality.com or visit www.thirdreality.com

For question on other platforms, visit for corresponding platform's application/support platforms.