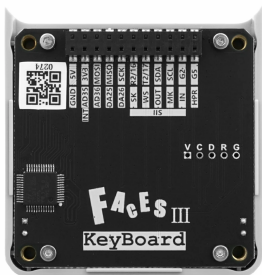
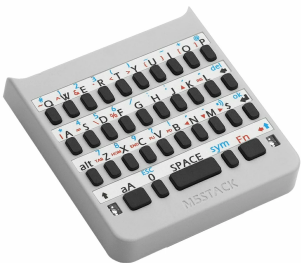


# Faces Keyboard3

SKU:A003-V3





## Description

**Faces Keyboard3** is a keyboard input panel designed for the Faces Bottom series. It adopts a 35-key layout that supports multi-character input through key combinations, meeting the needs of basic text input and quick control. An STM32 main controller is integrated inside, which interacts with the host through the I2C communication protocol and an interrupt pin, featuring fast response and high integration.

## Tutorial



### Arduino IDE

This tutorial will show you how to program and control the Faces Keyboard3 device with the Arduino IDE.

## Features

- Built-in STM32 main controller: STM32F030C8T6
- I2C communication interface
- Key layout: QWERTY keyboard
- Input status indicator: Blue LED x2

## Includes

- 1x Faces Keyboard3

## Applications

- Human-machine interaction input scenarios
- Parameter configuration and quick operations
- Text input and menu control

## Specifications

| Specification              | Parameter                |
|----------------------------|--------------------------|
| MCU                        | STM32F030C8T6            |
| Communication Interface    | I2C communication @ 0x08 |
| Key Layout                 | QWERTY full keyboard     |
| Number of Keys             | 35 keys                  |
| Input Status Indicator     | Blue LED x2              |
| Standby Power (Panel Only) | 3.3V@5.51mA              |
| Product Size               | 57.0 x 54.1 x 10.0mm     |
| Product Weight             | 21.4g                    |
| Package Size               | 56.0 x 59.0 x 19.0mm     |
| Gross Weight               | 26.4g                    |

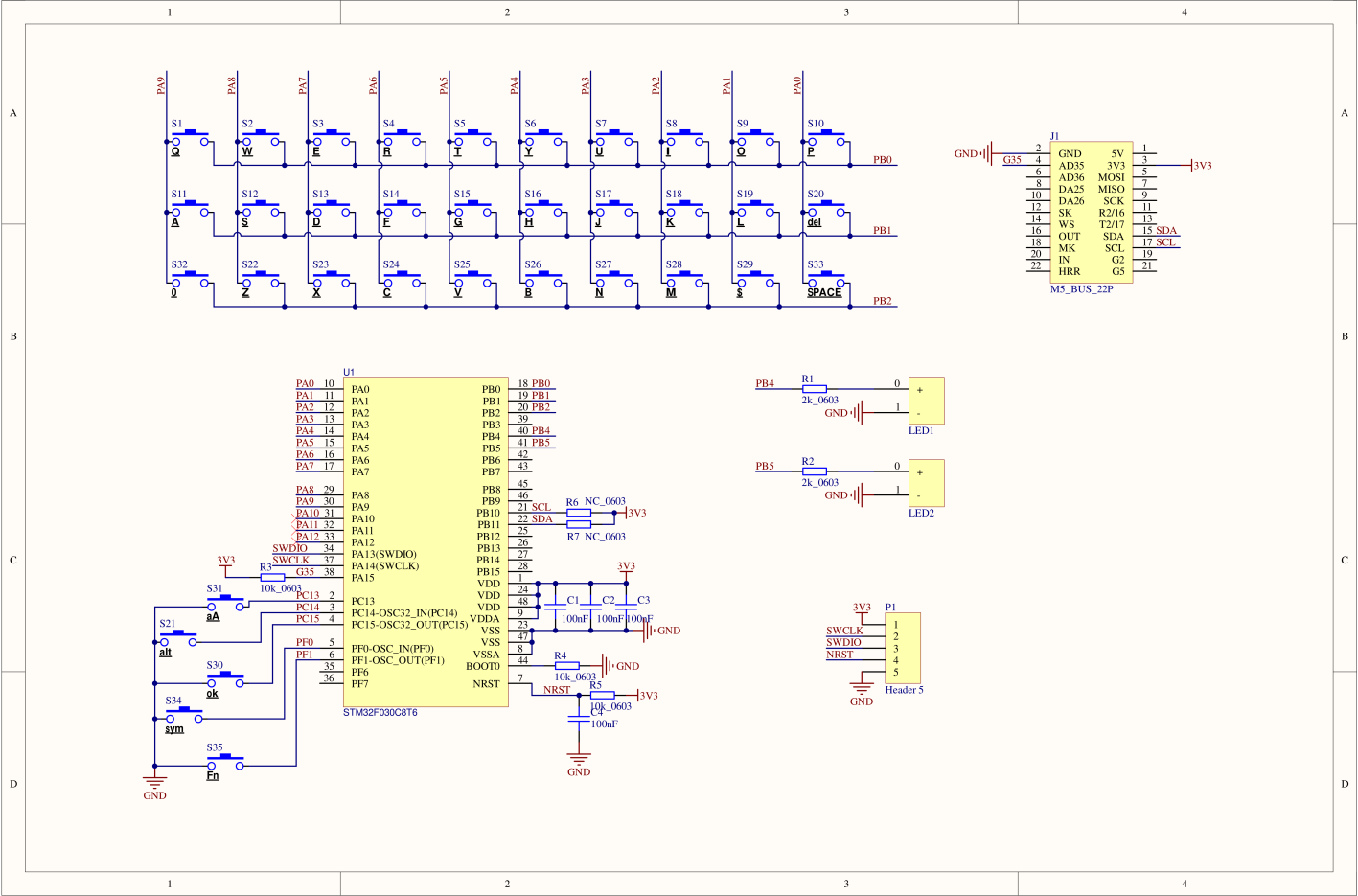
## Learn

### Indicator Light Description

When the keyboard's **left blue indicator light stays on**, it indicates the current layer is the base layer (black characters); when the **right blue indicator light stays on**, it indicates the current layer is the symbol layer (blue characters); when the **left and right indicator lights blink alternately**, it indicates the current layer is the function layer (red characters). Please determine the current input layer based on the indicator light status.

## Schematics

- [Faces Keyboard3 Schematics PDF](#)

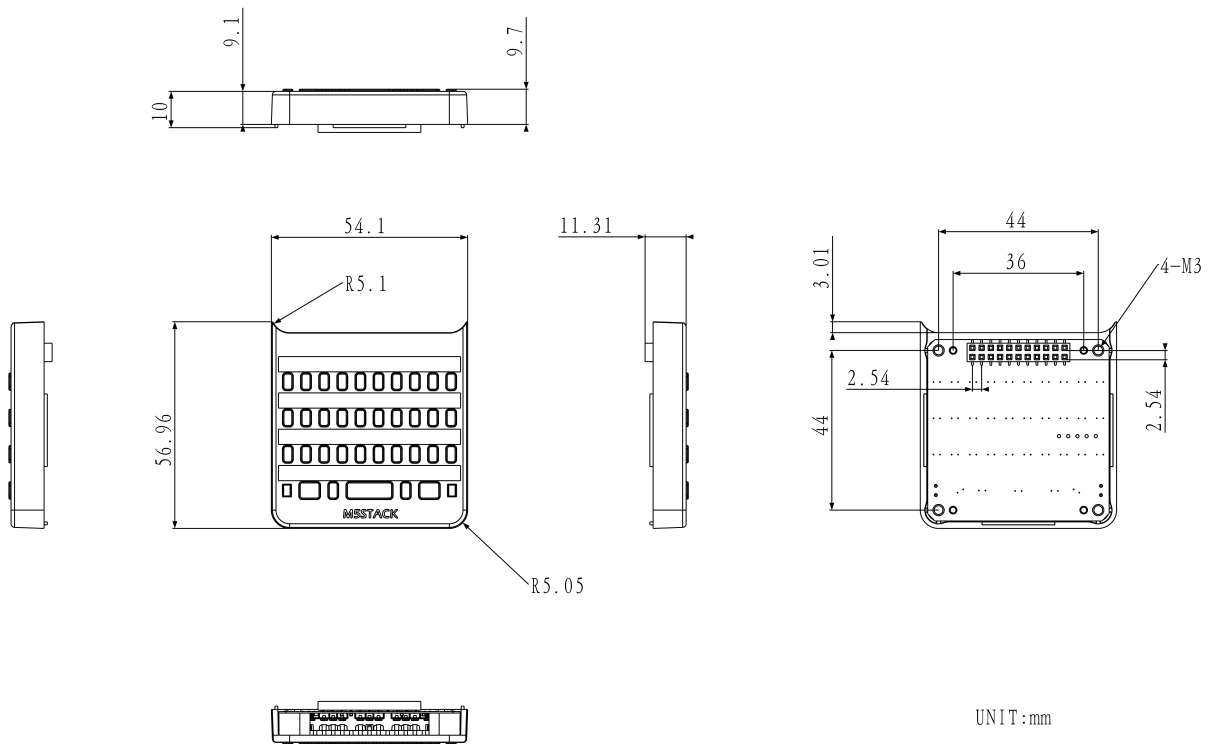


## PinMap

### Faces Panel Bus

| PIN | LEFT | RIGHT | PIN |
|-----|------|-------|-----|
| GND | 1    | 2     |     |
| G35 | 3    | 4     | 3V3 |
|     | 5    | 6     |     |
|     | 7    | 8     |     |
|     | 9    | 10    |     |
|     | 11   | 12    |     |
|     | 13   | 14    |     |
|     | 15   | 16    | SDA |
|     | 17   | 18    | SCL |
|     | 19   | 20    |     |
|     | 21   | 22    |     |

## Model Size



## Softwares

### Arduino

- [Faces Keyboard3 Arduino Quick Start](#)
- [Faces Keyboard3 Driver Library](#)

### UiFlow2

- [Faces Keyboard3 UiFlow2 Docs](#)

### Internal Firmware

- [Faces Keyboard3 Internal Firmware](#)

### Protocol

[View Protocol](#)

### Other

- [Faces3 User Demo WebBurner](#)

## Video

# Product Comparison

Product Compare



Faces Keyboard3  
STM32F030C8T6



Faces QWERTY  
MEGA328

MCU