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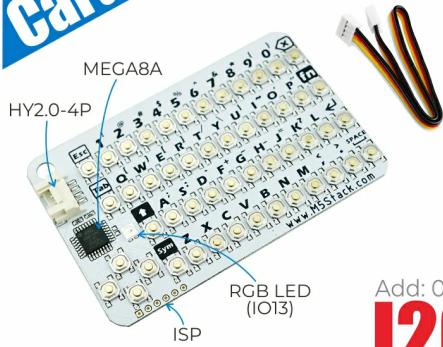


Product name

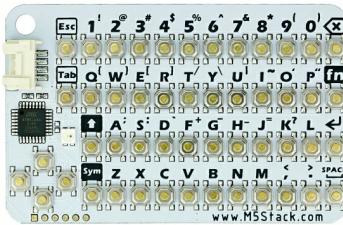
# CardKB v1.1

SKU:U035-B

UNIT  
**CardKB** v1.1



Add: 0x5F  
**I2C**  
INTERFACE



## Description

CardKB v1.1 is a card-size '50 key' QWERTY keyboard. Adopts **ATMega8A** as the MCU, communication port **I2C**, and one 'RGB-LED' indi

## Product Features

### CONTENTS

DESCRIPTION keyboard, multi-key combination

place, support **UIFlow** and **Arduino**

PRODUCT-FEATURE... compatible holes

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SPECIFICATION

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EASYLOADER

PINMAP

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PROTOCOL

LEARN Peripherals for M5Stack Core

EXAMPLE

FAQ

## Instructions

## Specification

### Resources

Par

MCU

ATMega8A

Number of keys

50

RGB LED

1 piece

Communication method

I2C

## Resources

Net weight

17g

Gross weight

18g

Product Size

88\*54\*5mm

Package Size

88\*58\*5mm



## Instructions for use

- **Single button pressed**, keyboard will output the first key value (the letter button will output in a lower case form). E.g if "Q" was pressed output "q" (lower cased).
  - **Sym+key**, keyboard will output the second key value. E.g if "Sym" was pressed and then "Q" was pressed, the keyboard will output "t". If double pressed, then the keyboard will lock this function, all key pressed will output it's second key value.
  - **Shift+key**, if a letter button was pressed, it'll output upper case form. E.g if "Shift" was pressed and then "Q" was pressed, the keyboard will output "T". If "Shift" was double pressed, then the keyboard will lock this function, all letter key pressed will output it's upper case form.
  - **Fn+key(custom function key combination)**, keyboard will output the third key value. You can customize what function the key presses do.

Line number	Button combination															
Line 1	<b>Key</b>	ESC	1	2	3	4	5	6	7	8	9	0	Back	Up		
	<b>Value</b>	0x1B	0x31	0x32	0x33	0x34	0x35	0x26	0x37	0x38	0x39	0x20	0x08	0xB5		
Line 2	<b>Key</b>	TAB	q	w	e	r	t	y	u	i	o	p	Fn	Down		
	<b>Value</b>	0x09	0x71	0x77	0x65	0x72	0x74	0x79	0x75	0x69	0x6F	0x70	NULL	0xB6		
Line 3	<b>Key</b>	Shift	a	s	d	f	g	h	j	k	l	Enter	Left			
	<b>Value</b>	NULL	0x61	0x73	0x64	0x66	0x67	0x68	0x6A	0x6B	0x6C	0x0D	0xB4			
Line 4	<b>Key</b>	Sym	z	x	c	v	b	n	m	,	.	SPACE	Right			
	<b>Value</b>	0x6A	0x7A	0x7B	0x65	0x69	0x6B	0x6C	0x6D	0x6E	0x6F	0x20	0x0D	0xB5		

	<b>Value</b>	NULL	0x/A	0x/B	0x63	0x/B	0x62	0x6E	0x6D	0x2C	0x2E	0x20	0xB/	
<b>Line number</b>	<b>Button combination</b>													
<b>Line 1</b>	<b>Sym+Key</b>	ESC	!	@	#	\$	%	^	&	*	(	)	Back	Up
	<b>Value</b>	0x1B	0x21	0x40	0x23	0x24	0x25	0x5E	0x26	0x2A	0x28	0x29	0x08	0xB5
<b>Line 2</b>	<b>Sym+Key</b>	TAB	{	}	[	]	/	\		-	"	"	Fn	Down
	<b>Value</b>	0x09	0x7B	0x7D	0x5B	0x5D	0x2F	0x5C	0x7C	0x7E	0x27	0x22	NULL	0xB6
<b>Line 3</b>	<b>Sym+Key</b>	Shift	:	:	:	~	+	-	-	=	?	NULL	Enter	Left
	<b>Value</b>	NULL	0x3B	0x3A	0x60	0x2B	0x2D	0x5F	0x3D	0x3F	NULL	0x0D	0xB4	
<b>Line 4</b>	<b>Sym+Key</b>	Sym	NULL	<	>	SPACE	Right							
	<b>Value</b>	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	0x3C	0x3E	0x20	0xB7	
<b>Line number</b>	<b>Button combination</b>													
<b>Line 1</b>	<b>Shift+Key</b>	ESC	1	2	3	4	5	6	7	8	9	0	Del	Up
	<b>Value</b>	0x1B	0x31	0x32	0x33	0x34	0x35	0x36	0x37	0x38	0x39	0x30	0x7F	0xB5
<b>Line 2</b>	<b>Shift+Key</b>	TAB	Q	W	E	R	T	Y	U	I	O	P	Fn	Down
	<b>Value</b>	0x09	0x51	0x57	0x45	0x52	0x54	0x59	0x55	0x49	0x4F	0x50	NULL	0xB6
<b>Line 3</b>	<b>Shift+Key</b>	Shift	A	S	D	F	G	H	J	K	L	Enter	Left	
	<b>Value</b>	NULL	0x41	0x53	0x44	0x46	0x47	0x48	0x4A	0x4B	0x4C	0x0D	0xB4	
<b>Line 4</b>	<b>Shift+Key</b>	Sym	Z	X	C	V	B	N	M	,	.	SPACE	Right	
	<b>Value</b>	NULL	0x5A	0x58	0x43	0x56	0x42	0x4E	0x4D	0x2C	0x2E	0x20	0xB7	
<b>Line number</b>	<b>Button combination</b>													
<b>Line 1</b>	<b>Fn+Key</b>	ESC	1	2	3	4	5	6	7	8	9	0	Back	Up
	<b>Value</b>	0x80	0x81	0x82	0x83	0x84	0x85	0x86	0x87	0x88	0x89	0x8A	0x8B	0x99
<b>Line 2</b>	<b>Fn+Key</b>	TAB	Q	W	E	R	T	Y	U	I	O	P	Fn	Down
	<b>Value</b>	0x8C	0x8D	0x8E	0x8F	0x90	0x91	0x92	0x93	0x94	0x95	0x96	NULL	0xA4
<b>Line 3</b>	<b>Fn+Key</b>	Shift	A	S	D	F	G	H	J	K	L	Enter	Left	
	<b>Value</b>	NULL	0x9A	0x9B	0x9C	0x9D	0x9E	0x9F	0xA0	0xA1	0xA2	0xA3	0x88	
<b>Line 4</b>	<b>Fn+Key</b>	Sym	Z	X	C	V	B	N	M	,	.	SPACE	Right	
	<b>Value</b>	NULL	0xA6	0xA7	0xA8	0xA9	0xAA	0xAB	0xAC	0xAD	0xAE	0xAF	0xA5	

# EasyLoader

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[download EasyLoader](#)

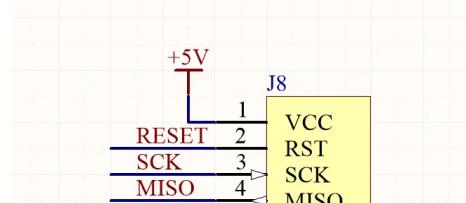
**1. EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It is burned to the master through simple steps, and a series of function verification can be performed. .**

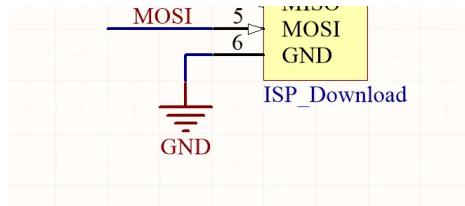
- After downloading the software, double-click to run the application, connect the M5 device to the computer through the data cable, select the parameters, click "Burn" to start burning. (**For M5StickC burning, please Set the baud rate to 750000 or 115200**)

## PinMap

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**ATMega8A ISPDownload interface Pin foot definition**





M5Core(GROVE A)

CardKB

GPIO22

SCL

GPIO21

SDA

5V

5V

## Related Link

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- [CardKB Firmware](#)

## Protocol

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- Protocol type I2C
- I2C Address: **0x5F**

/\*-----\*/

```
| KEYBOARD REG      | 0x5F  
| -----  
| keyboard_value_reg[0] 0x5F      | R | KEYBOARD VALUE  
/*-----
```

## Learn

---



### LoRa QWERTY Messenger

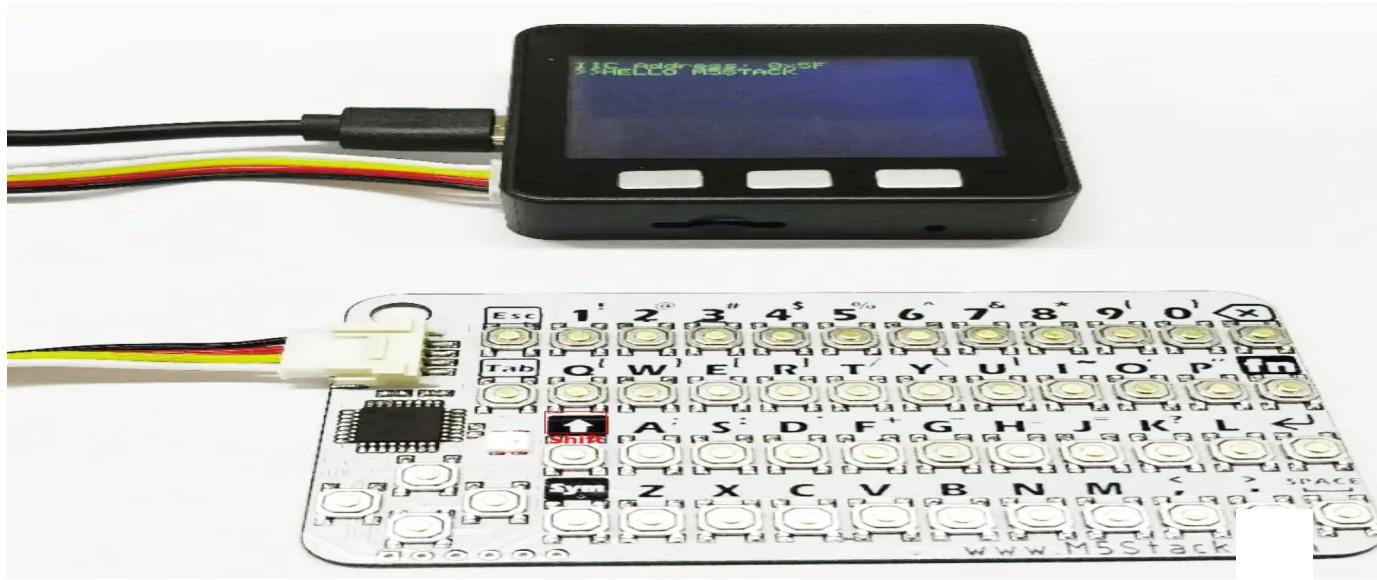
A standalone off-grid LoRa pager/messenger device for the end of the world. :-)

## Example

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### Arduino

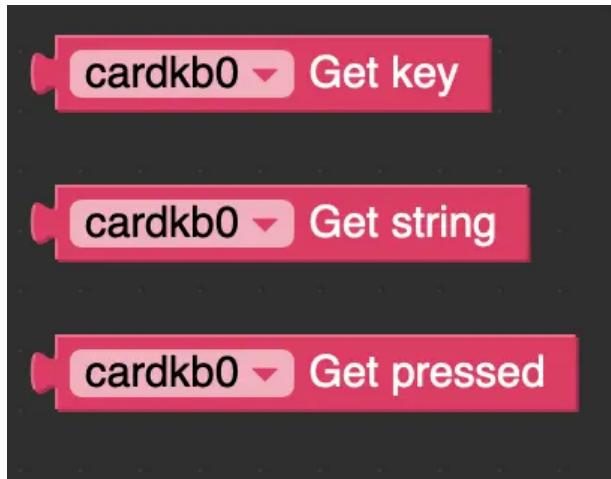
To get the code, please click [here](#)



UIFlow

## Feature Introduction

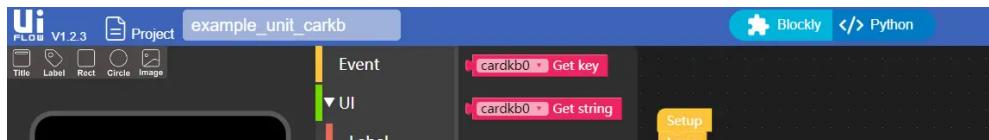
Enter information via the keyboard

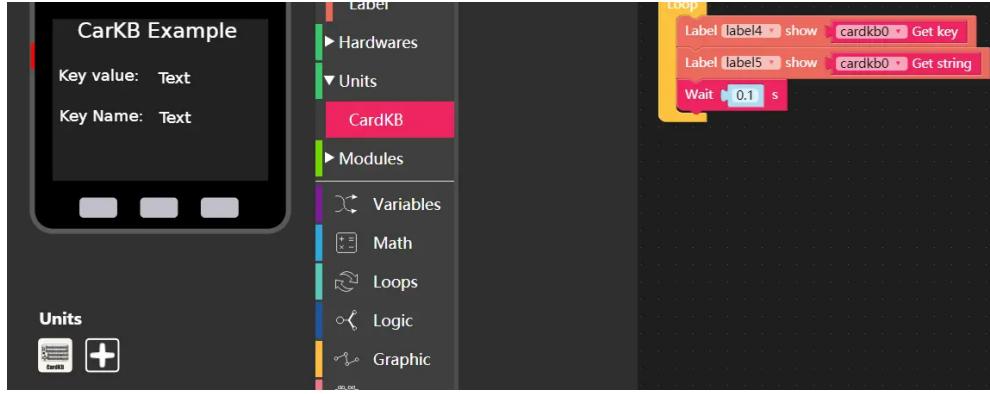


- **Get key** Return ASIIC value
- **Get string** Return character
- **Get pressed** Detect button, press to return true

## Usage

To get the complete code, please click [here](#)





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Stick  
Atom

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Unit

Accessory

Application

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UIFlow Desktop IDE

M5Burner

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