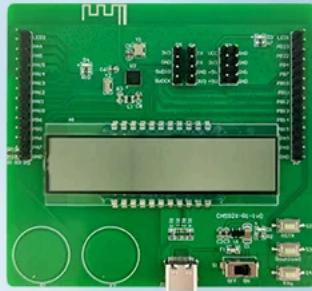


CH592-EVT



CH592X-EVT-R1



CH592F-EVT-R0

32-BIT RISC-V CORE

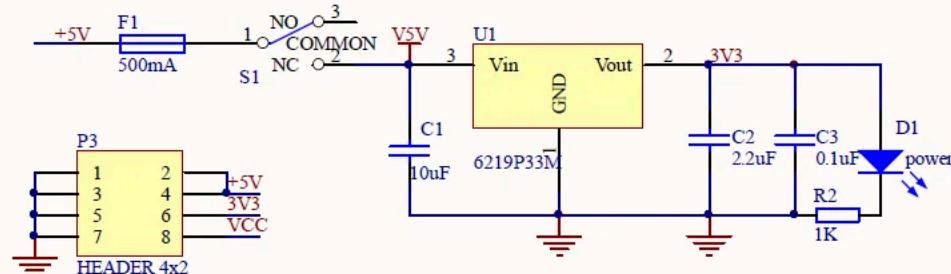
BLE 5.4 SPECIFICATION

SEGMENT LCD

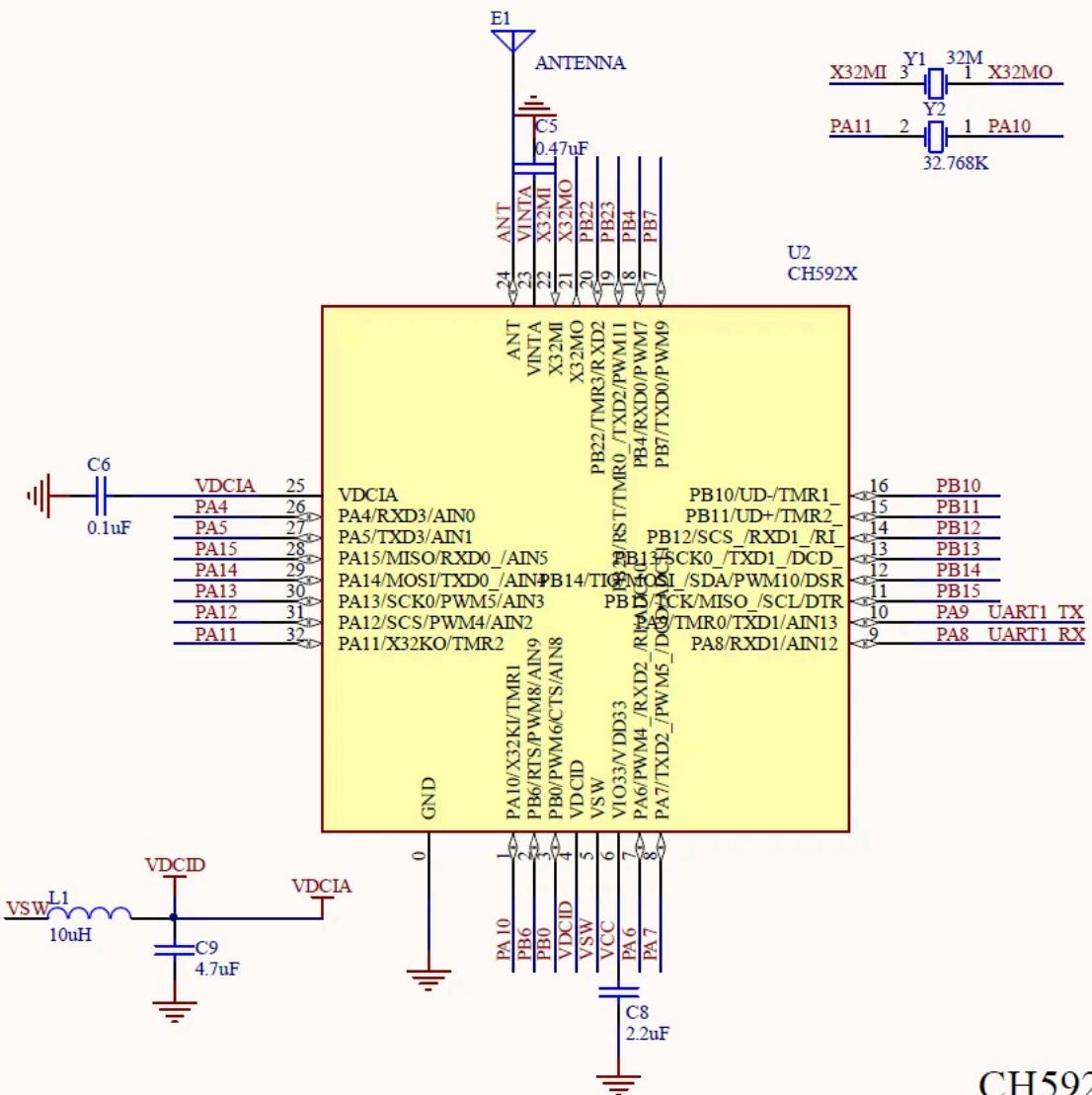
1.

Overview

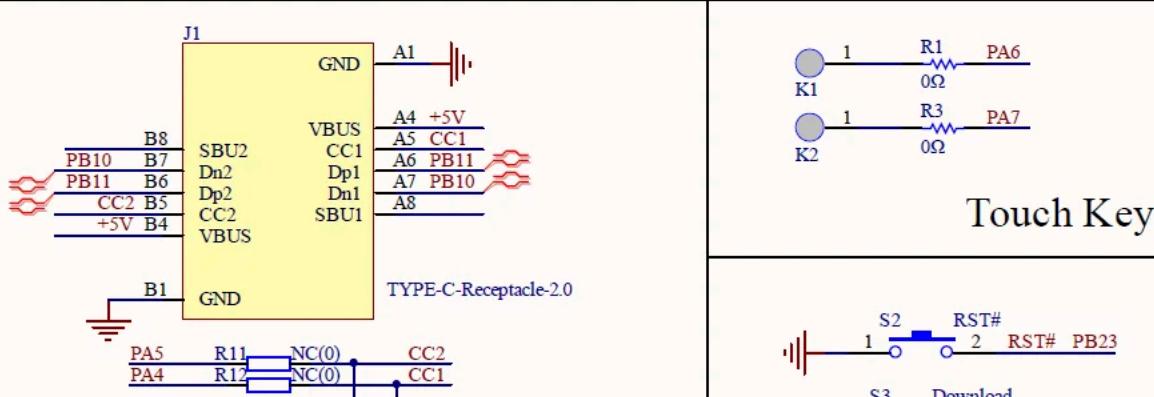
This evaluation board is based on the CH592 and made according to the following schematic. CH592 is a 32-bit RISC microcontroller integrated with BLE wireless communication. It integrates 2Mbps Bluetooth® Low Energy communication module, full-speed USB host and device controller and transceiver, segment LCD driver module, SPI, 4 UARTs, 12 ADCs, touch-key detection module and other rich peripheral resources.



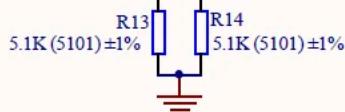
Power



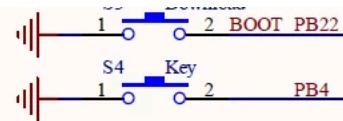
CH592X



Touch Key



USB type C



Key

22	NUM COM0
21	NUM COM1
20	SEG16
19	SEG8
18	SEG9
17	SEG10
16	SEG11
15	SEG12
14	SEG13
13	SEG14
12	SEG15

NUM COM0	PB12
NUM COM1	PB13
NUM COM2	PB14
NUM COM3	PB15

N1

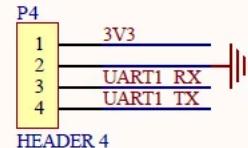
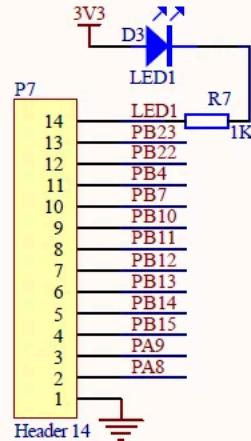
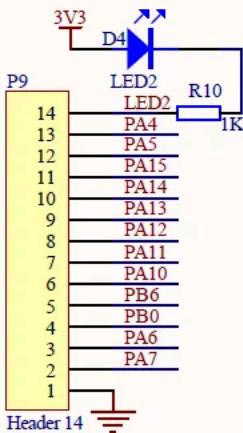
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GDC0103T

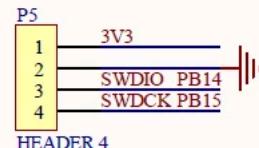
1	NUM COM2
2	NUM COM3
3	SEG0
4	SEG1
5	SEG2
6	SEG3
7	SEG4
8	SEG5
9	SEG6
10	SEG7
11	

SEG0	PB7
SEG1	PB4
SEG2	PB23
SEG3	PB22
SEG4	PA4
SEG5	PA5
SEG6	PA15
SEG7	PA14
SEG8	PA13
SEG9	PA12
SEG10	PA11
SEG11	PA10
SEG12	PA8
SEG13	PA9
SEG14	PB11
SEG15	PB10
SEG16	PB6

LCD



UART1



SWD

CH592X:

CH592

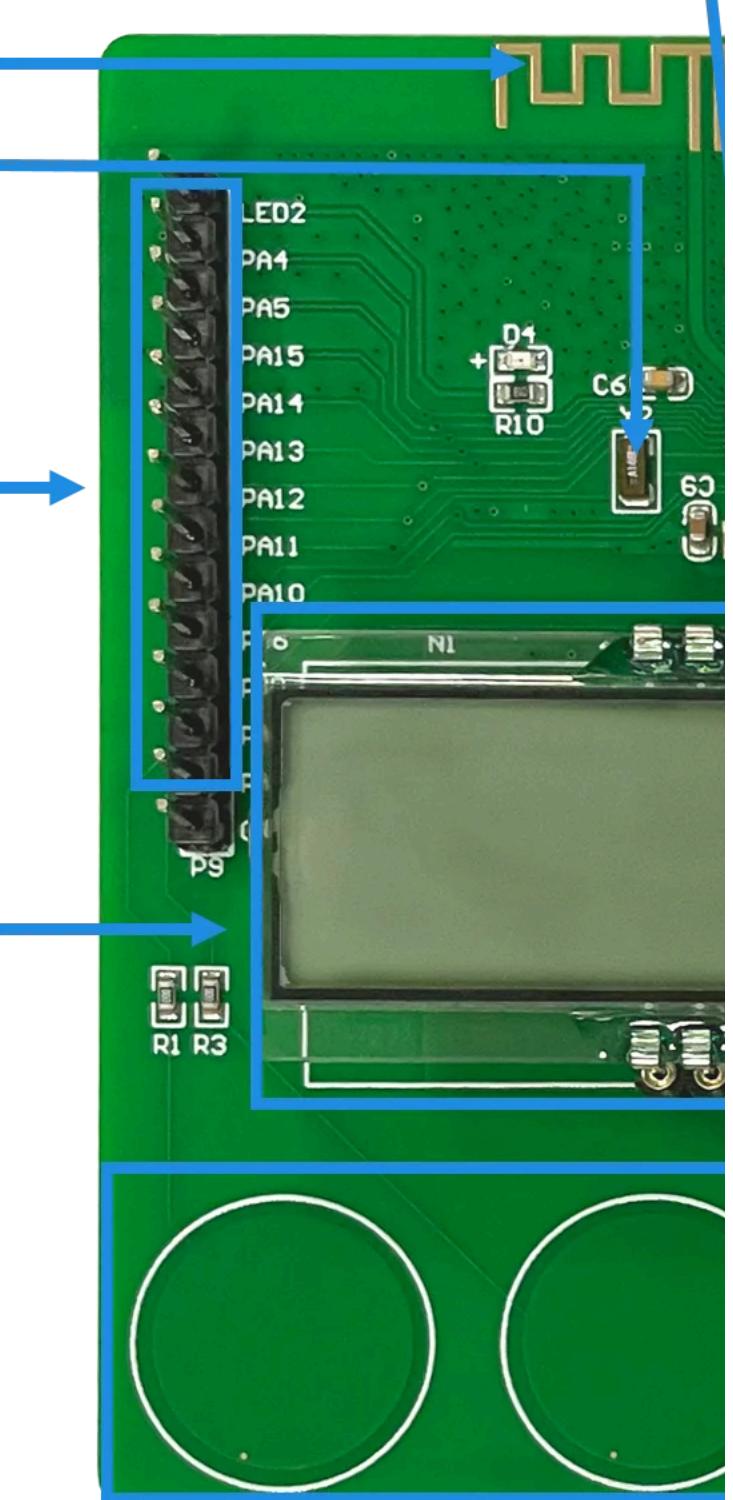
Bluetooth Antenna

32K Crystal Oscillator

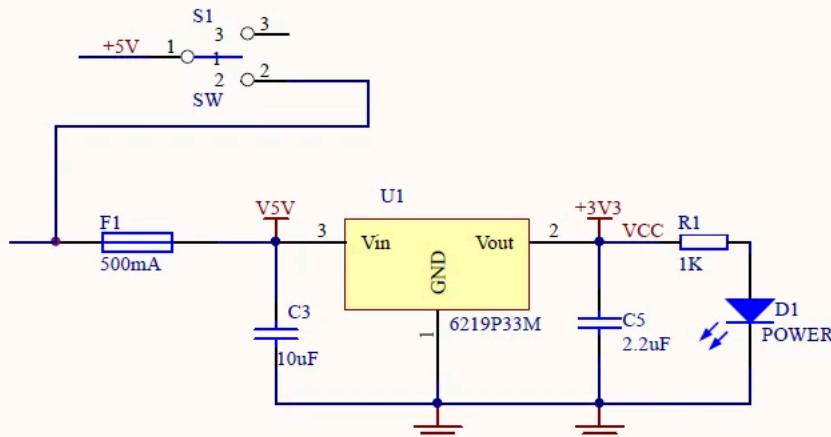
GPIO

LCD

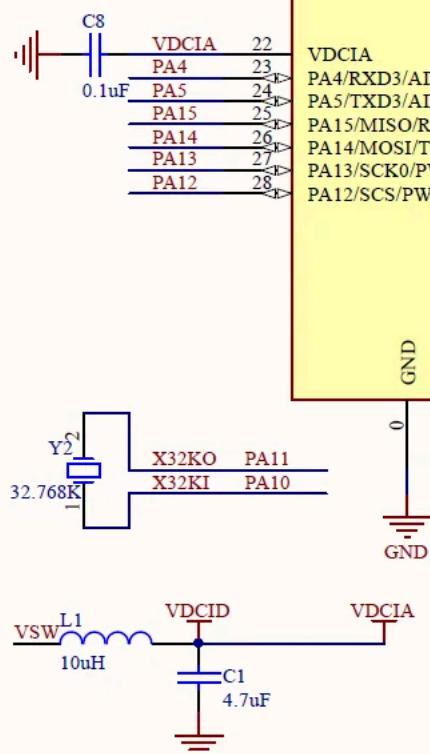
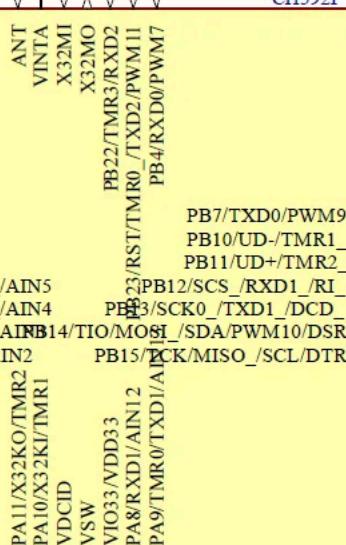
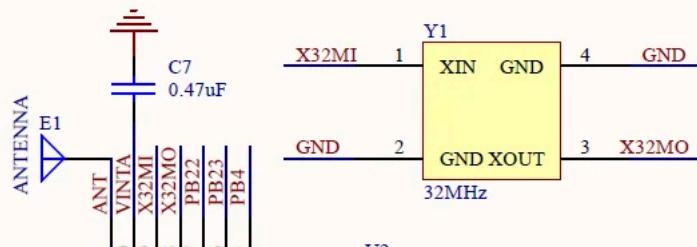
Touch Key



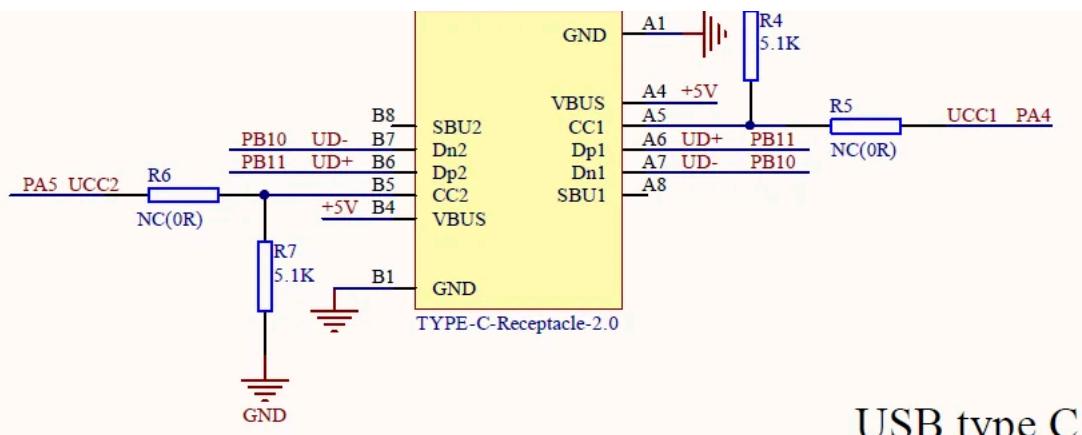
CH592F:



Power



CH592F

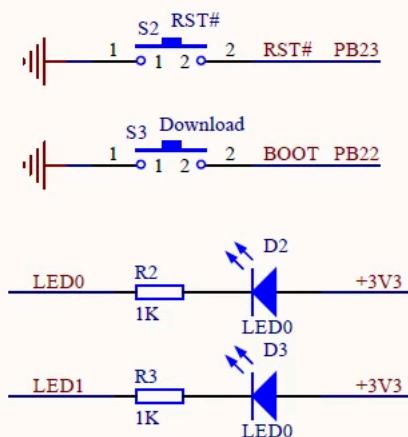


	P2		PA4		
GND	1	2	PA5		
GND	3	4	PA15		
GND	5	6	PA14		
GND	7	8	PA13		
GND	9	10	PA12		
+5V	11	12	PA11		
+5V	13	14	PA10		
+5V	15	16	PA8		
+5V	17	18	PA9		
GND	19	20	LED0		
	21	22			

Header 11X2H

	P3		GND		
	1	2	PB23		
	3	4	PB4		
	5	6	PB7		
	7	8	PB10		
	9	10	PB11		
	11	12	PB12		
	13	14	PB13		
	15	16	PB14		
	17	18	PB15		
	19	20	LED1		
	21	22			

Header 11X2H



CH592F

Bluetooth Antenna

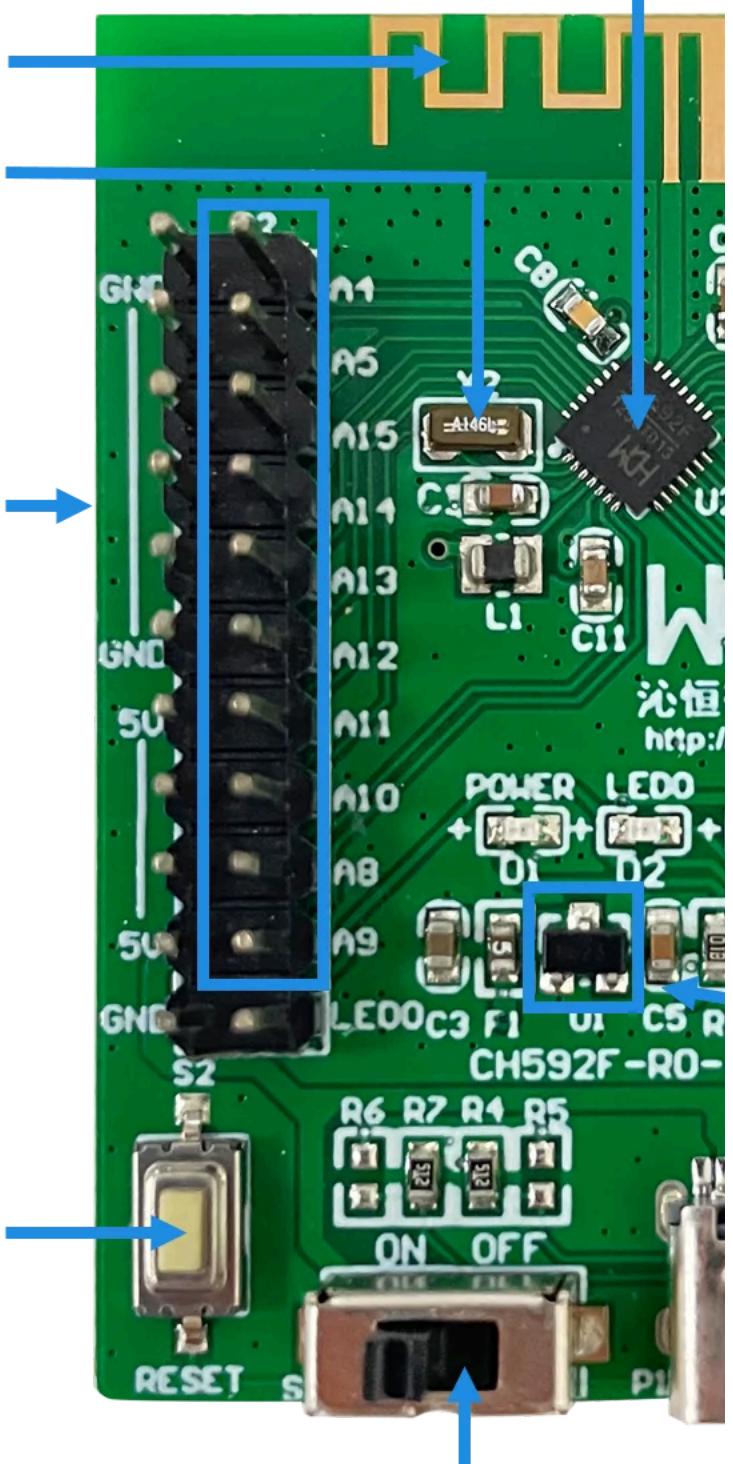
32K Crystal Oscillator

GPIO

Reset Key

ON/OFF

US



6. Documentation

Datasheet: https://www.wch-ic.com/downloads/CH592DS1_PDF.html

Demo: https://www.wch.cn/downloads/CH592EVT_ZIP.html



Official Website: wch-ic.com