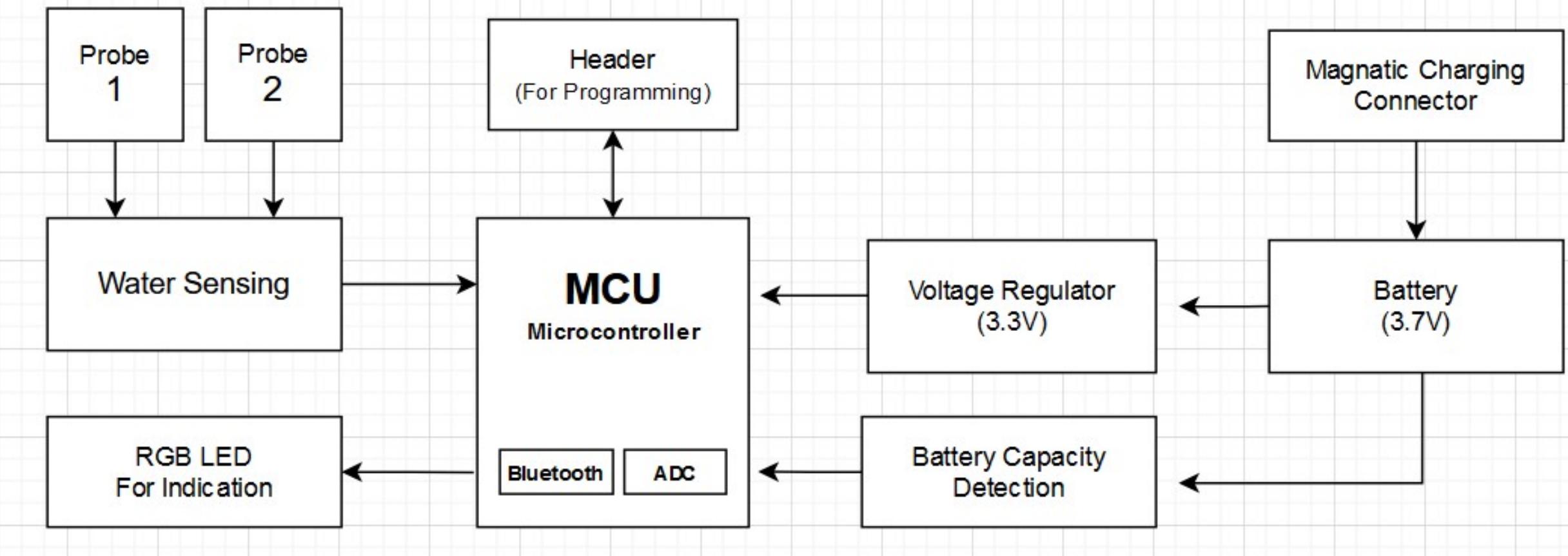


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A

# Water Sensing WristBand



- For Low Battery Indication
- For Charging Indication
- For Bluetooth Pairing
- Connected

Can be customized  
by the firmware developer.

TITLE:

Water Sensing Wrist Band

REV: 1.0

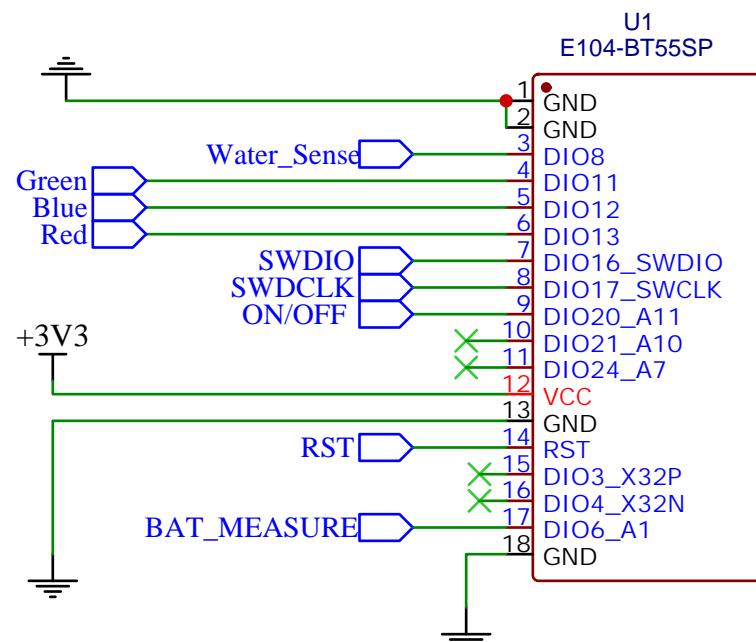


Company:

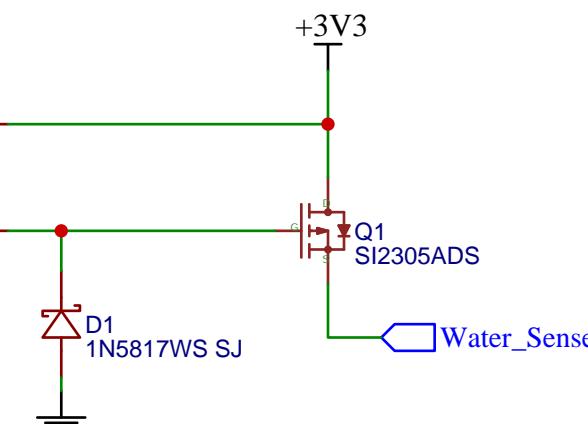
Sheet: 1/1

Date: 2025-01-15 Drawn By: muquitarif

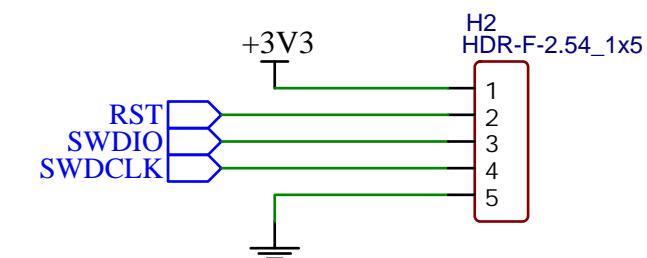
## MCU and Bluetooth Module



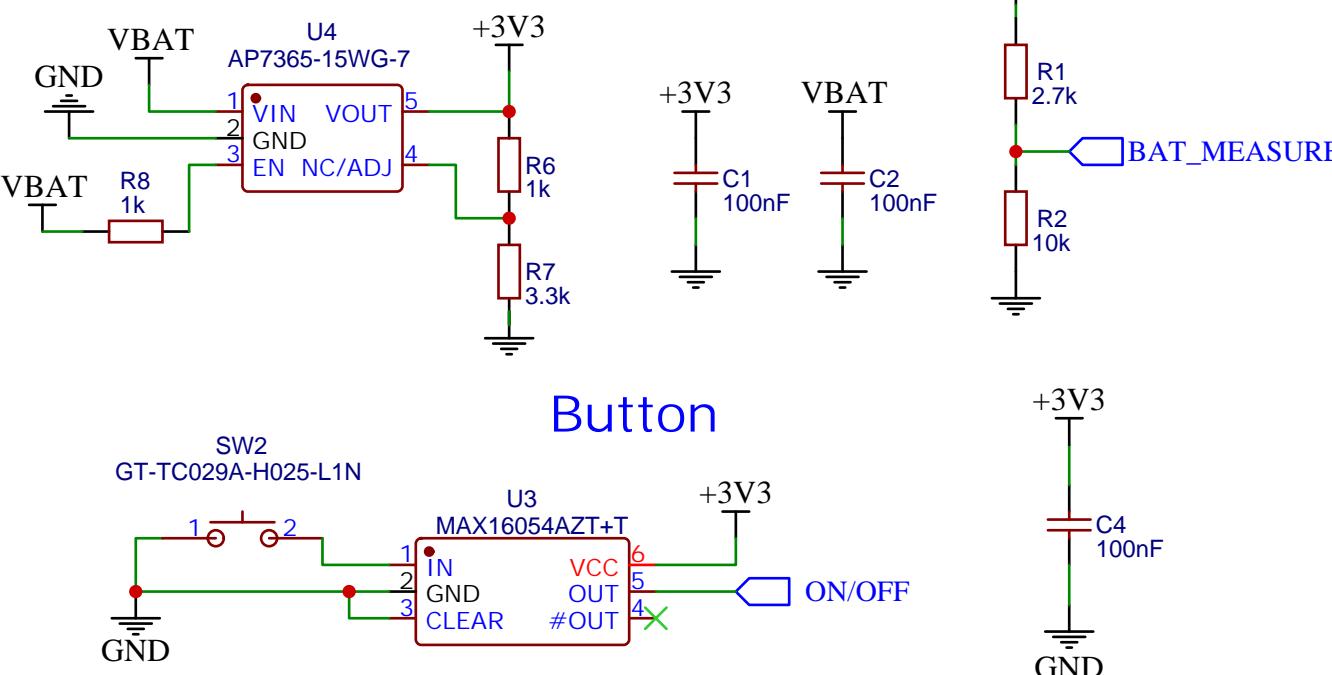
## Water Sensing Probes



## Programming Pads

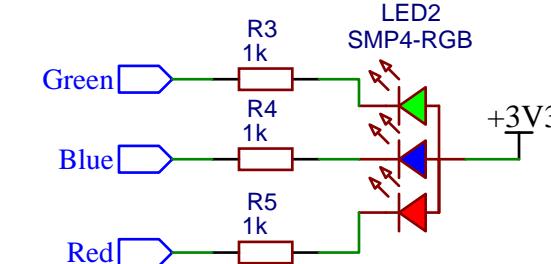


## Power

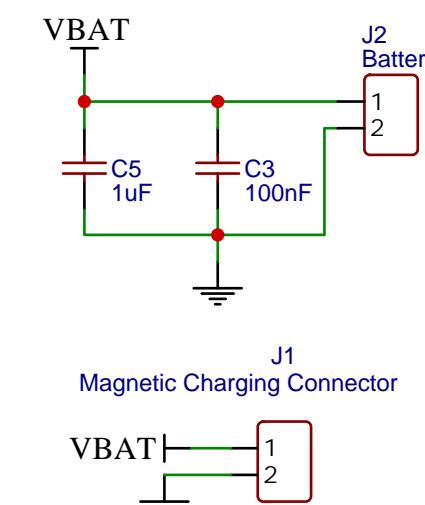


## Button

## RGB Indicator LED



## Battery & Charging Connector



TITLE:

Water Sensing Wrist Band

REV: 1.0

EasyEDA

Company:

Sheet: 1/1

Date: 2025-01-03 Drawn By: muqutarif

# E104-BT55SP Datasheet

## 2.2 Working parameters

Main parameters		Performance			Remark
		Min	Type	Max	
Normal voltage mode		1.7	3.3	3.8	$\geq 3.3V$ can guarantee output power
Communication level (V)		-	3.3	-	Risk of burnout with 5V TTL
Working frequency band (MHz)		2402	-	2480	Supports ISM bands
Transmit power (dBm)		-20	0	8	dBm
Power consumption	Receive Sensitivity (dBm)	-	-96	-	Air rate is 1Mbps
	Emission current (mA)	-	11	-	@0dBm
	Receive current (mA)	-	10	-	-
Sleep current ( $\mu$ A)		-	1	-	Default parameters
Low power consumption current ( $\mu$ A)		-	6	-	TX=0dBm interval 1s

 Chengdu Ebyte Electronic Technology Co., Ltd

E83-2G4M03S User Manual

Main parameters	Description	Remark
Reference distance	170m	Clear and open environment, height 2.0 meters, @8dBm, airspeed 1Mbps
Bluetooth protocol	BLE5.3	-
Communication Interface	I/O	-
Packaging method	SMD	-
Dimensions	14.5*10mm	-
RF interface	PCB	Equivalent impedance is about $50\Omega$
Product weight	0.5g	$\pm 0.1g$

The following I/O pins have high drive capability:

- DI012
- DI016
- DI017
- DI024\_A7

The following I/O pins have analog functions:

- DI020\_A11
- DI021\_A10
- DI024\_A7
- DI06\_A1

Reset, active low, internal pull-up to 3.3V

	TITLE:	Water Sensing Wrist Band	REV:	1.0
	Company:		Sheet:	1/1
	Date:	2025-01-05	Drawn By:	muquitarif