

PSU

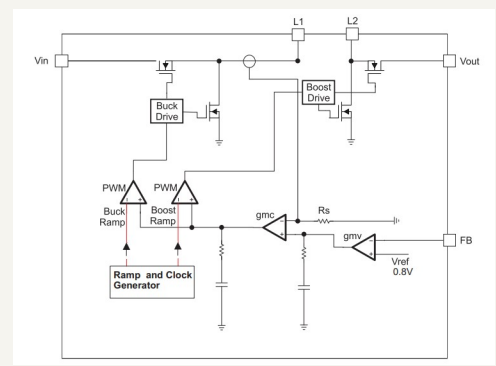
DSBGA 20-Pin  
YFF Package  
Top View

VQFN 14-Pin  
RNC Package  
Top View

Product Preview

## Pin Functions

NAME	PIN	RNC	I/O	DESCRIPTION
VOUT	A1,A2,A3	12, 13, 14	PWR	Buck-Boost converter output
FB	A4	11	IN	Voltage feedback of adjustable version, must be connected to VOUT on fixed output voltage versions
L2	B1,B2,B3	1	PWR	Connection for Inductor
PFM/PWM	B4	10	IN	set low for PFM mode, set high for forced PWM mode. It must not be left floating
PGND	C1,C2,C3	2	PWR	Power Ground
GND	C4	9	PWR	Analog Ground
L1	D1,D2,D3	3	PWR	Connection for Inductor
EN	D4	8	IN	Enable input. Set high to enable and low to disable. It must not be left floating.
VIN	E1,E2,E3	4, 5, 6	PWR	Supply voltage for power stage
VINA	E4	7	PWR	Supply voltage for control stage.

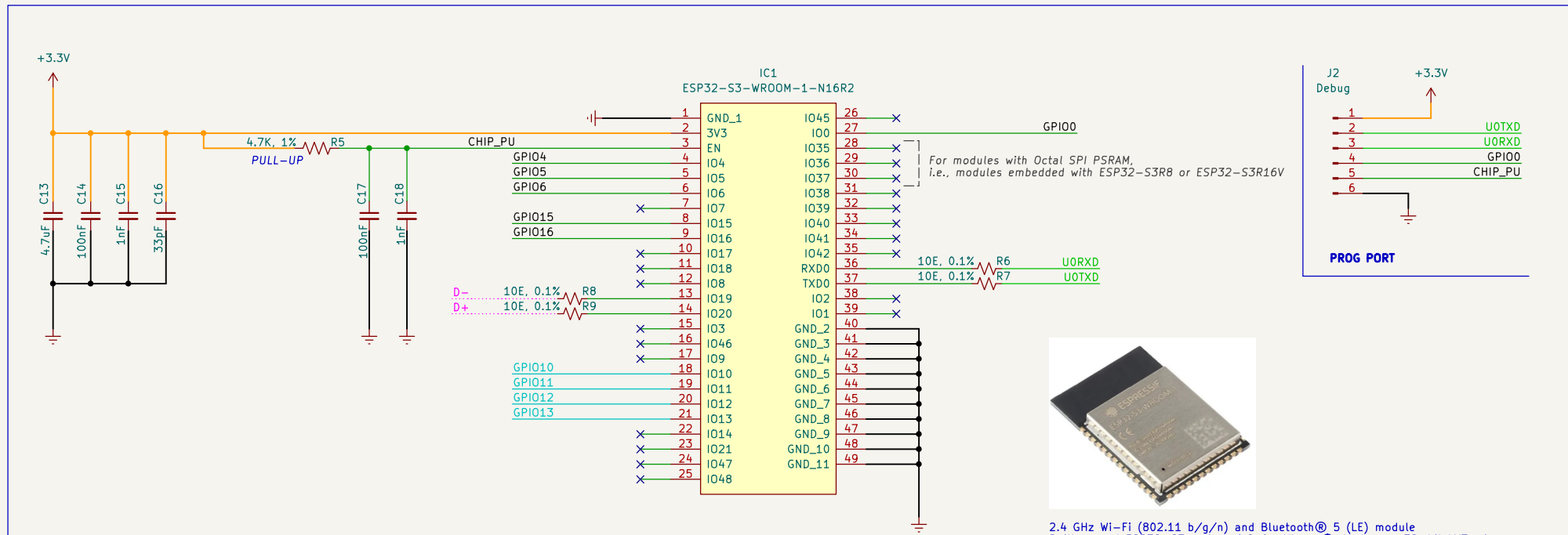


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Sheet: /3.3V PSU & Input/  
File: 3V3 PSU.kicad\_sch

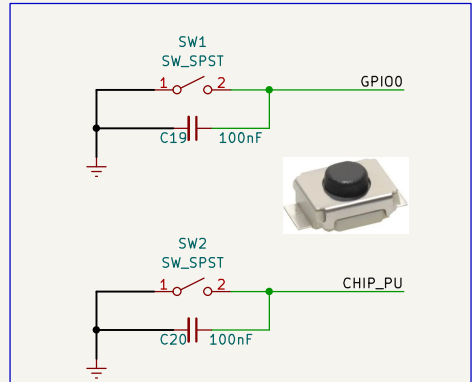
**Title: POWER SUPPLY UNIT**

Size: A4	Date: 2024-07-07	Rev: 03 Id: 2/4
KiCad E.D.A. 9.0.0		

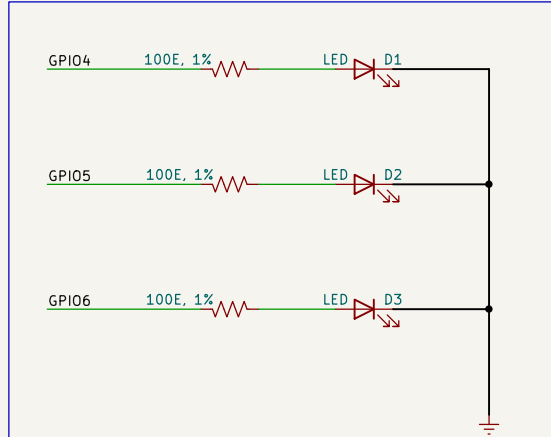


2.4 GHz Wi-Fi (802.11 b/g/n) and Bluetooth® 5 (LE) module  
Built around ESP32-S3 series of SoCs, Xtensa® dual-core 32-bit LX7 microprocessor  
Flash up to 16 MB, PSRAM up to 16 MB  
Up to 36 GPIOs, rich set of peripherals  
On-board PCB antenna or external antenna connector

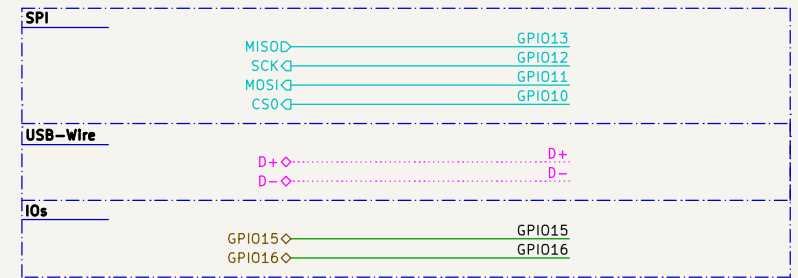
## MCU Circuit



## CHIP CONTROL



## LED



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Sheet: /ESP32 S3/ File: esp32s3.kicad_sch		
<b>Title: MicroController Unit</b>		
Size: A4	Date: 2024-07-07	Rev: 03
KiCad E.D.A. 9.0.0		Id: 3/4

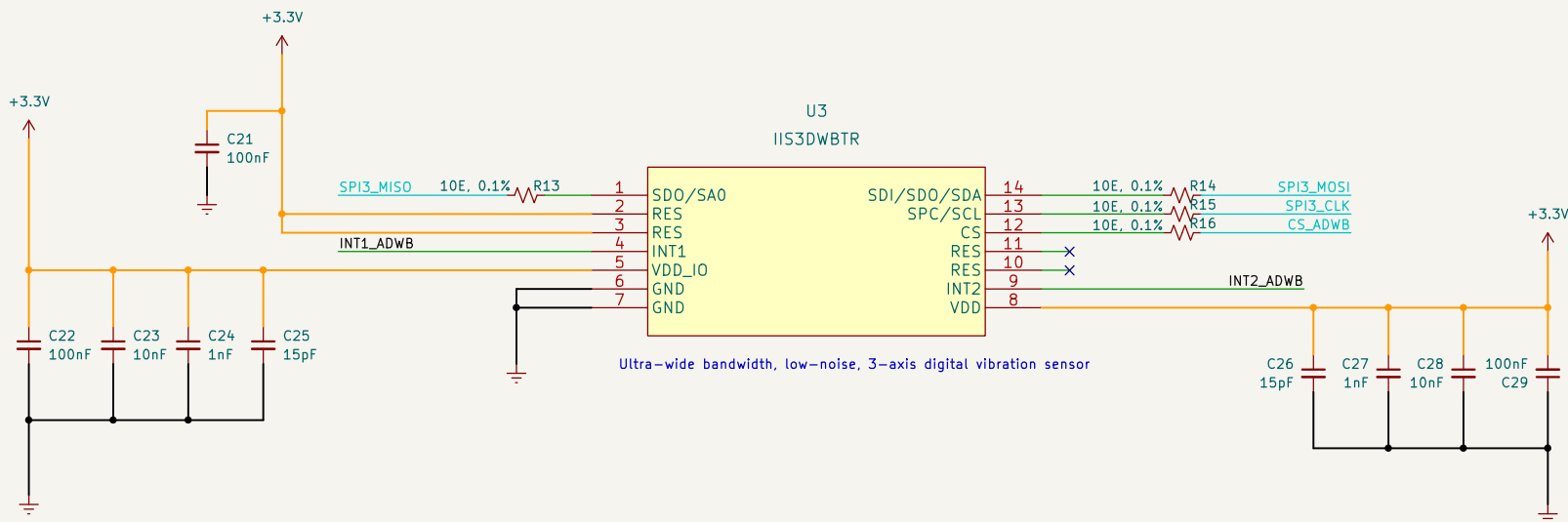
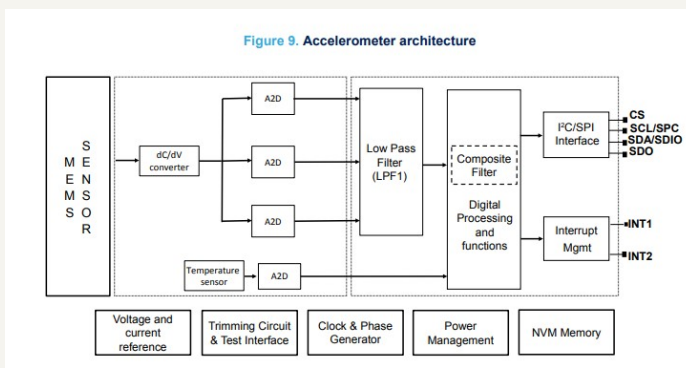


Table 2. Default pin status				
Pin#	Name	Function	Default status	Recommended connection
1	SDO/SA0	SPI 4-wire interface serial data output (SDO) PC least significant bit of the device address (SA0)	Input without pull-up Pull-up is enabled if bit SDO_PU_EN=1 in reg 02h	Application specific
2	RES	Reserved	Input without pull-up	Connect to VDD_IO or GND
3	RES	Reserved	Input without pull-up	Connect to VDD_IO or GND
4	INT1	Programmable interrupt #1	Input with pull-down After device power-up, connection is application specific.	
5	VDD_IO	Power supply for I/O pin	-	
6	GND	Ground	-	
7	GND	Ground	-	
8	VDD	Power supply	-	
9	INT2	Programmable interrupt #2	Output forced to GND	Application specific
10	RES	Reserved	Input with pull-up	Connect to VDD_IO or leave pin electrically unconnected and soldered to PCB
11	RES	Reserved	Input with pull-up	Connect to VDD_IO or leave pin electrically unconnected and soldered to PCB
12	CS	PC/SPI mode selection (1: SPI idle mode / PC communication enabled; 0: SPI communication mode / PC disabled)	Input with pull-up Pull-up is disabled if bit CS_DISABLE=1 in reg 10h	Application specific
13	SPC/SCL	SPI serial port clock (SPC) PC serial clock (SCL)	Input without pull-up	Application specific
14	SDI/SDIO/SA0	SPI serial data input (SDI) 3-wire interface serial data output (SDO) PC serial data (SDA)	Input without pull-up	Application specific



Peripherals	
SPI3_CLK	◇ SPI3_CLK
SPI3_MOSI	◇ SPI3_MOSI
SPI3_MISO	◇ SPI3_MISO
CS_ADWB	◇ CS_ADWB
INT1_ADWB	◇ INT1_ADWB
INT2_ADWB	◇ INT2_ADWB

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Sheet: /Accelerometer/  
File: Accelerometer.kicad\_sch

**Title: Accelerometer Unit**

Size: A4 Date: 2024-07-07

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Rev: 03

Id: 9/4