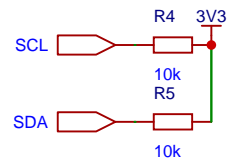
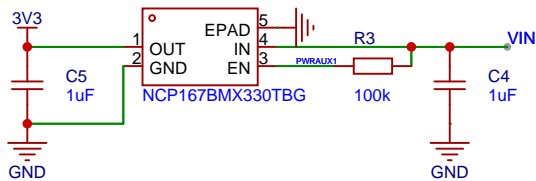
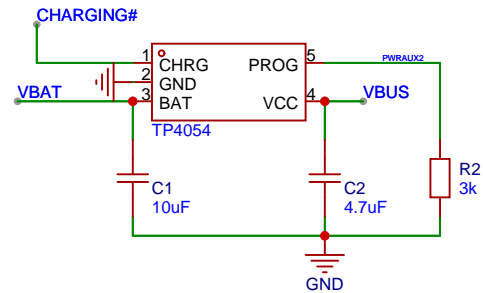


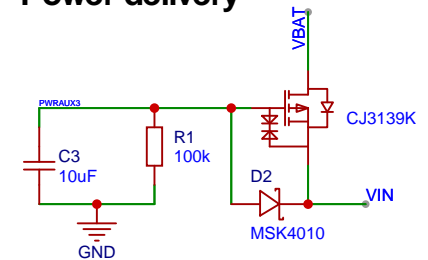
## LDO



## Battery charger



## Power delivery



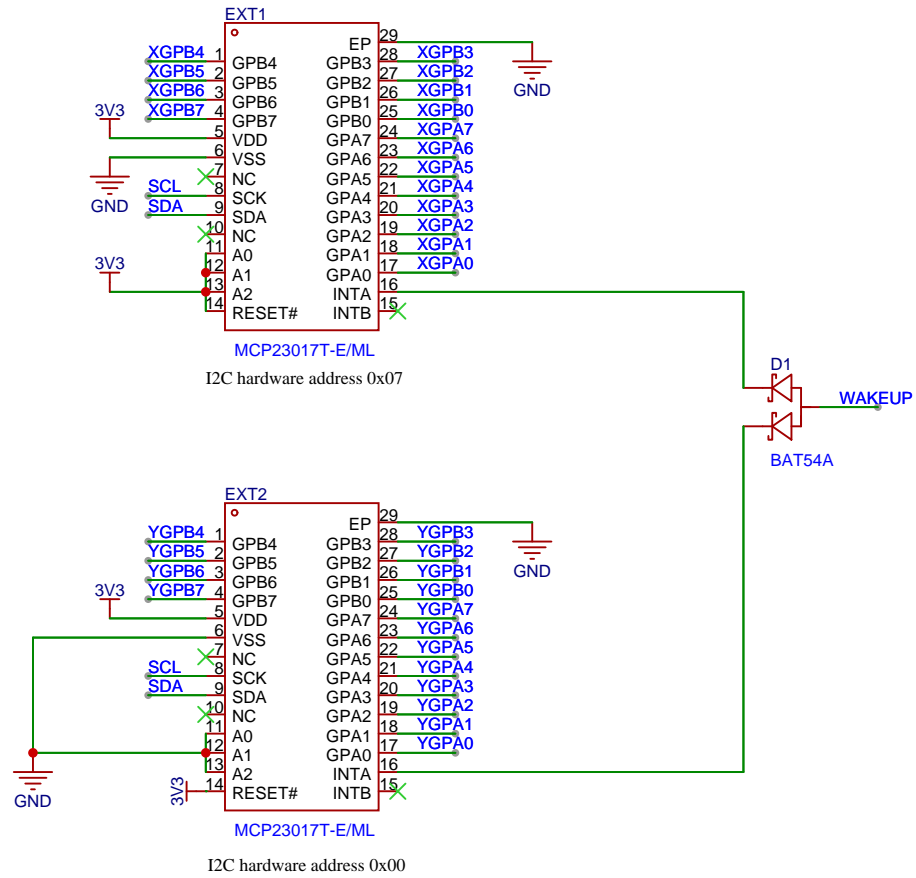
## Notes

The input voltage to the board must not exceed 5.5V

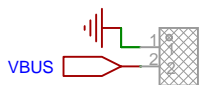
R9 determines the charging rate of the battery. 3k = 300 mA

CHARGING#: LOW if the battery is charging. Will blink high-low-high if there is no battery.

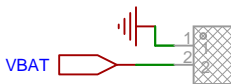
Schematic	PlayAndCharge_REV1			Create at	2025-07-18
Board	PlayAndCharge_REV1			Update at	2025-07-18
Drawn	Afpineda	PlayAndChargeModule			
Reviewed					
		Version	Size	Page 1 Total 4	
		V1.0	A4	ESP32SimWheel	



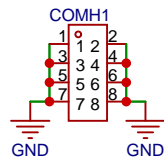
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			Update at	2025-07-18
Board	PlayAndCharge_REV1		Page	GPIOExpanders
Drawn	Afpineda	PlayAndChargeModule		
Reviewed				
		Version	Size	Page 2 Total 4
EasyEDA		V1.0	A4	ESP32SimWheel



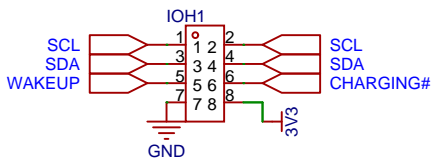
External 5V0



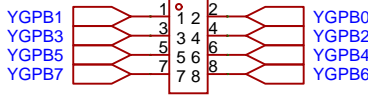
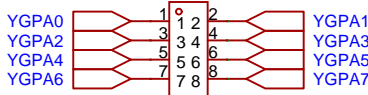
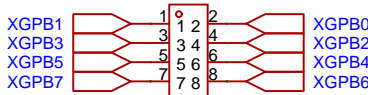
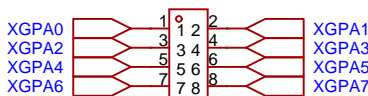
Battery



Common pole



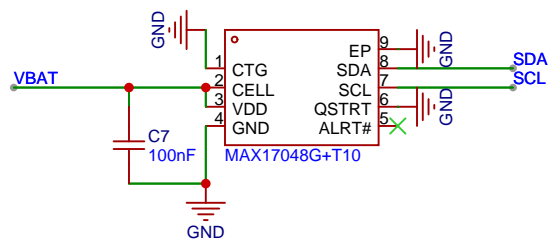
I/O



Switches (I2C)



Schematic	PlayAndCharge_REV1		Create at	2025-07-18
Board	PlayAndCharge_REV1		Update at	2025-07-18
Drawn	Afpineda	PlayAndChargeModule		
Reviewed				
		Version	Size	Page 3 Total 4
EasyEDA		V1.0	A4	EasyEDA.com



Schematic	PlayAndCharge_REV1		Create at	2025-07-18
			Update at	2025-07-18
Board	PlayAndCharge_REV1		Page	FuelGauge
Drawn	Afpineda	PlayAndChargeModule		
Reviewed				
		Version	Size	Page 4 Total 4
EasyEDA		V1.0	A4	EasyEDA.com