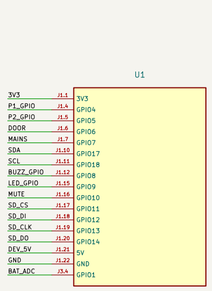
MODULAR EVT ASSEMBLY HARNESS / CG-WIFI-A01 v0.8



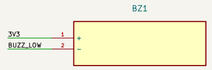
ESP32-S3-DevKitC-1-N8R8



1k 1%



Green 3mm LED



PUI AI-1223-TWT-3V-2-R



onsemi 2N3904



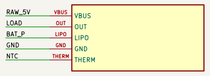
680R 1%



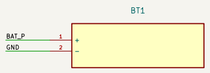
100k 1%



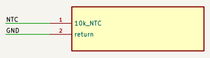
5V 2A SELV input



Adafruit 4755 BQ24074



Adafruit 2011 1S PCM



Semitec 103AT-2



Adafruit 4654 MiniBoost



Littelfuse RXEF075



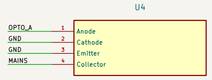
Power disconnect 2A DC



470uF 10V radial



680R 1% 0.25W



Lite-On LTV-817 DIP4



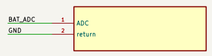
10k 1%



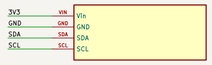
100k 1%



100k 1%



100nF 50V



Adafruit 3013 DS3231



Probe 1 / Adafruit 381



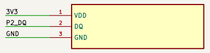
4.7k 1%



100R 1%



100nF 50V



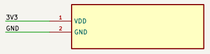
Probe 2 / Adafruit 381



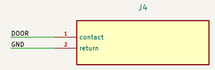
4.7k 1%



100R 1%



100nF 50V



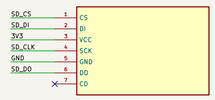
Adafruit 375 door contact



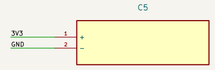
10k 1%



NO mute button



SparkFun BOB-00544



10uF 10V radial



100nF 50V



1N4148

Module internals are excluded. All block pins are passive harness endpoints. ERC checks connectivity only.

Do not fabricate a PCB from this drawing. Use pad names and the assembly instructions. USB and external power are mutually exclusive.

Freeze physical part revision before assembly. Verify transistor polarity and all battery connections by meter. Bench charging at 20–30 C only.

Engineering prototype; field and fabrication release HOLD

Sheet: /
File: CG-WIFI-A01-harness.kicad_sch

Title: ColdGuard modular EVT harness

Size: A2	Date: 2026-10-05	**Rev: 0.8**
KiCad E.D.A. 10.0.6		Id: 1/1