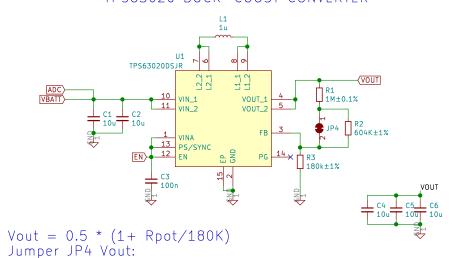
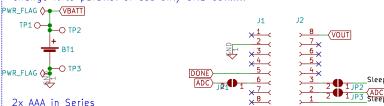
TPS63020 BUCK-COOST CONVERTER



!!!!! If using 10440 Lithium-Ion AAA 3.7V

Change it to parallel or use only ONE Cell!!!!!



Old WEMOS ESP8266 did not have RST Jumper to GPI016 enabling Sleep Use JP1 to enable deep sleep

DONE configuration: For WEMOS ESP8266 use GPI04 For ESP32-CAM use GPI015 For ESP32-DOIT use GPI014 For ESP32-DEVKIT V1 use GPI09

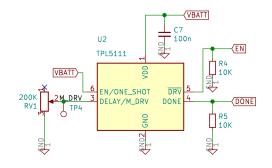
One can find few variations of ESP32 boards around, the following configuration covers few: ADC configuration: For WEMOS ESP8266 use JP1, it has built-in voltage divider

For ESP32-CAM use JP3 and ADC2_6 For ESP32-DOIT use JP3 and ADC2_7 For ESP32-DEVKIT V1 use JP3 and ADC2_4

**ADC2 is used by the Wi-Fi driver. Therefore the application can only use ADC2 when the Wi-Fi driver has not started.

https://docs.espressif.com/projects/esp-idf/en/latest/api-reference/peripherals/adc.html

NANO-TIMER



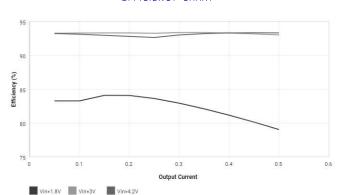
Potentiometer vs Sleep Time 1s----5.2K 30s-----16.78K 1m-----22.02K 10m-----57.44K 1h-----124.91K

Closed = 3.3V

Open = 5.0V

EFFICIENCY CHART

BOARD PINOUT



Leonardo Bispo

Sheet: / File: esp_pmc.sch

Title: ESP AAA Battery pack, buck-boost timer

Size: A4 Date: 2019-08-14 Rev: 0.0.1 KiCad E.D.A. eeschema (5.1.2)-2 ld: 1/1