

LED STATES

GREEN Watchdog normally flashing every 3 seconds
RED Transceiver transmitting
GREEN Transceiver receiving
YELLOW Camera actived LED
RED (GPS) GPS active LED, blinking if GPS locked
BLUE APRS packet received

POWER BUSSES

+SOL The solar cells are connected here

+BATT The battery is connected here

VDD Connection between solar charger and voltage regulators.

VDD and +BATT is almost the same but there is a 0.1R current sense resistor in between.

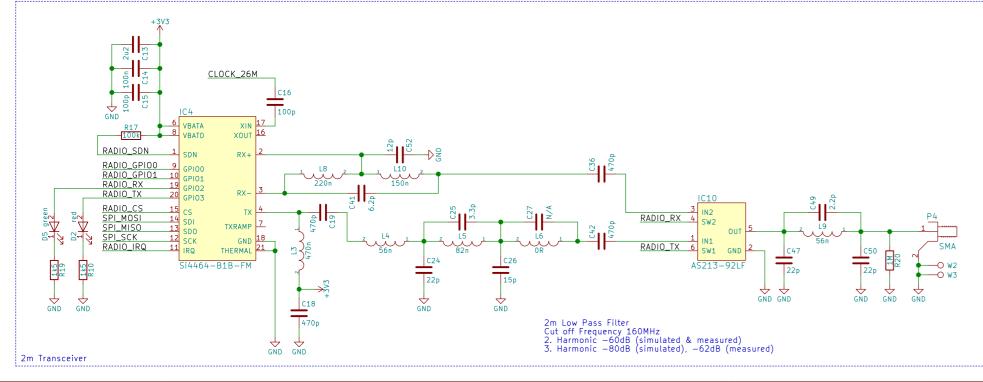
VCC Core bus. This Bus is connected to the STM32, BME280 and KT2016 The voltage of the bus may vary between 1.8V and 3.0V, which is set by R7 and R8.

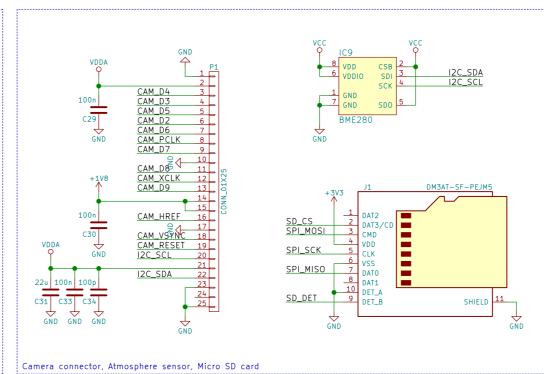
In order to save power, you should use 1.8V. If you want to use The USB-Interface you must use 3.0V.

+3V3 This Bus has actually 3.4V and poweres the transceiver in order to get 20 dBm. It is also connected to the PAC1720 and SD card because they needs at least 3.0V.

+VCC_GPS GPS power bus including the LED +VDDA Analog voltage for the camera

Core and I/O voltage for the camera





Pecan Group

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