



LED STATES

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

POWER BUSES

- +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 powers 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
- +1V8 Core and I/O voltage for the camera

Pecan Group

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