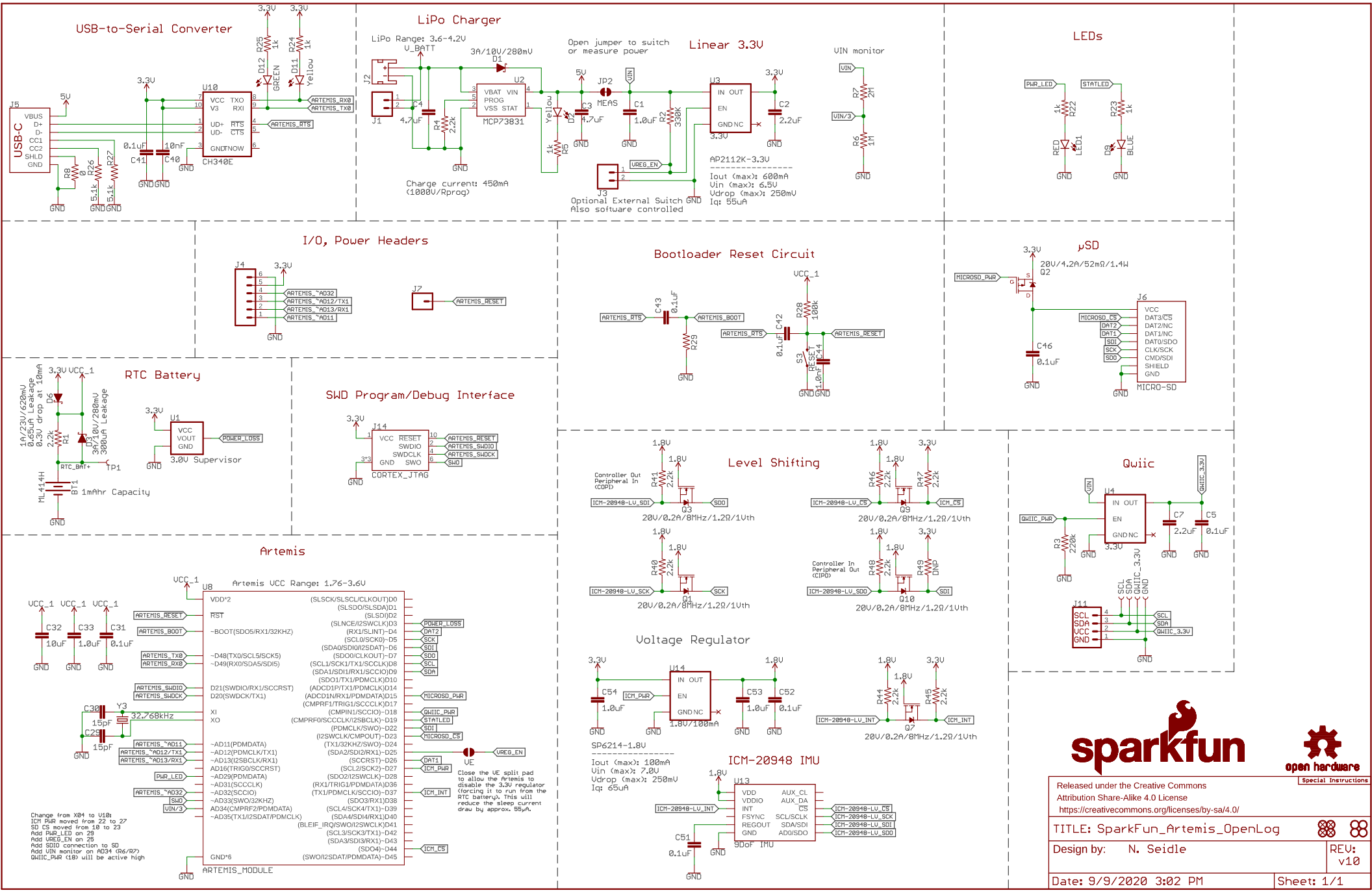
USB-to-Serial Converter
LiPo Charger
LiPo Range: 3.6-4.2V
V_BATT
3A/10V/280mV
Open jumper to switch or measure power
Linear 3.3V
VIN monitor
LEDs
AP2112K-3.3V
Iout (max): 600mA
Vin (max): 6.5V
Vdrop (max): 250mV
Iq: 55uA
Charge current: 450mA
(1000V/Rprog)
Optional External Switch
Also software controlled
I/O, Power Headers
Bootloader Reset Circuit
µSD
20V/4.2A/52mΩ/1.4W
RTC Battery
1mAhr Capacity
3.0V Supervisor
SWD Program/Debug Interface
Level Shifting
20V/0.2A/8MHz/1.2Ω/1Vth
Qwiic
Voltage Regulator
SP6214-1.8V
Iout (max): 100mA
Vin (max): 7.0V
Vdrop (max): 250mV
Iq: 65uA
ICM-20948 IMU
Artemis
Artemis VCC Range: 1.76-3.6V
Close the VE split pad to allow the Artemis to disable the 3.3V regulator (forcing it to run from the RTC battery). This will reduce the sleep current draw by approx. 55µA.
Change from X04 to V10:
ICM PWR moved from 22 to 27
SD CS moved from 10 to 23
Add PWR_LED on 29
Add VREG_EN on 25
Add SDIO connection to SD
Add VIN monitor on AD34 (R6/R7)
QWIIC_PWR (18) will be active high
sparkfun
open hardware
Special Instructions
Released under the Creative Commons Attribution Share-Alike 4.0 License
https://creativecommons.org/licenses/by-sa/4.0/
TITLE: SparkFun_Artemis_OpenLog
Design by: N. Seidle
REV: v10
Date: 9/9/2020 3:02 PM
Sheet: 1/1