


Released under the Creative Commons Attribution Share-Alike 4.0 License https://creativecommons.org/licenses/by-sa/4.0/		
TITLE: Artemis_Iridium_Tracker		
Design by: Paul Clark Based on the SparkFun Artemis and Qwiic ZOE-M8Q		REV: U1
Date: 01/12/2019 09:02		Sheet: 1/4

Nexperia
 PMEG4005EJ
 $V_F @ 100\mu A \approx 100mV$

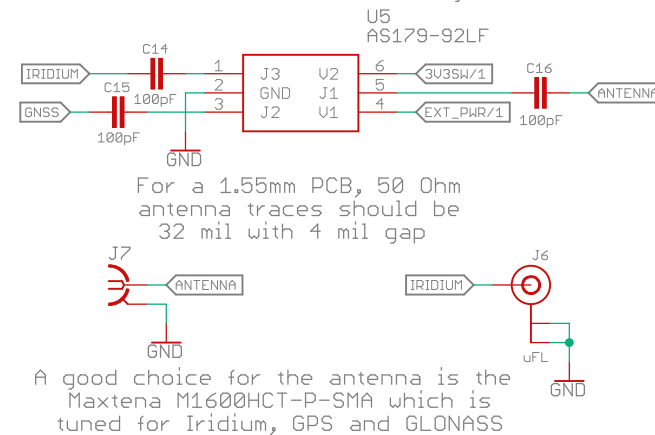
$0.5A / 40V / 420mV$

$R_{15} =$
 $(5 - (3.1 + 0.1)) / 30E-6$
 $\approx 60K$
 62K0HM-0603-1/10W-5%

U_{BCKP}

SII ML414H
 1.0mAh (3.1V-2.0V) 600Ω
 Pb-free reflowable
 Charger: Constant Current /
 Constant Voltage 3.1V, max.30μA,
 2hr, RT

```
** !! Make sure 3V3SW and EXT_PWR
are not enabled simultaneously !! **
```



U6
MS8607-02BA01

3.3V

0.22µF

GND

1 2 3 4 5 6 7 8

VDD NC_1 GND NC_2 NC_3 SCL SDA

ARTEMIS_D8_SCL/3

ARTEMIS_D9_SDA/3

VDD Range: 1.5 - 3.6V

I2C Addresses:

Pressure & Temperature: 0x76

Relative Humidity: 0x40

Released under the Creative Commons
Attribution Share-Alike 4.0 License
<https://creativecommons.org/licenses/by-sa/4.0/>

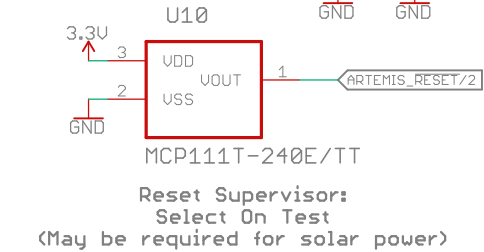
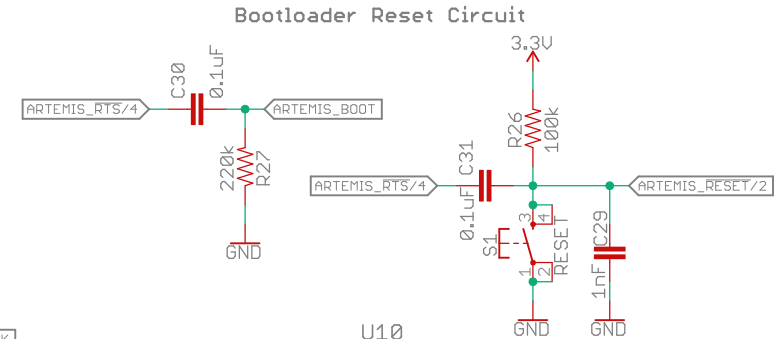
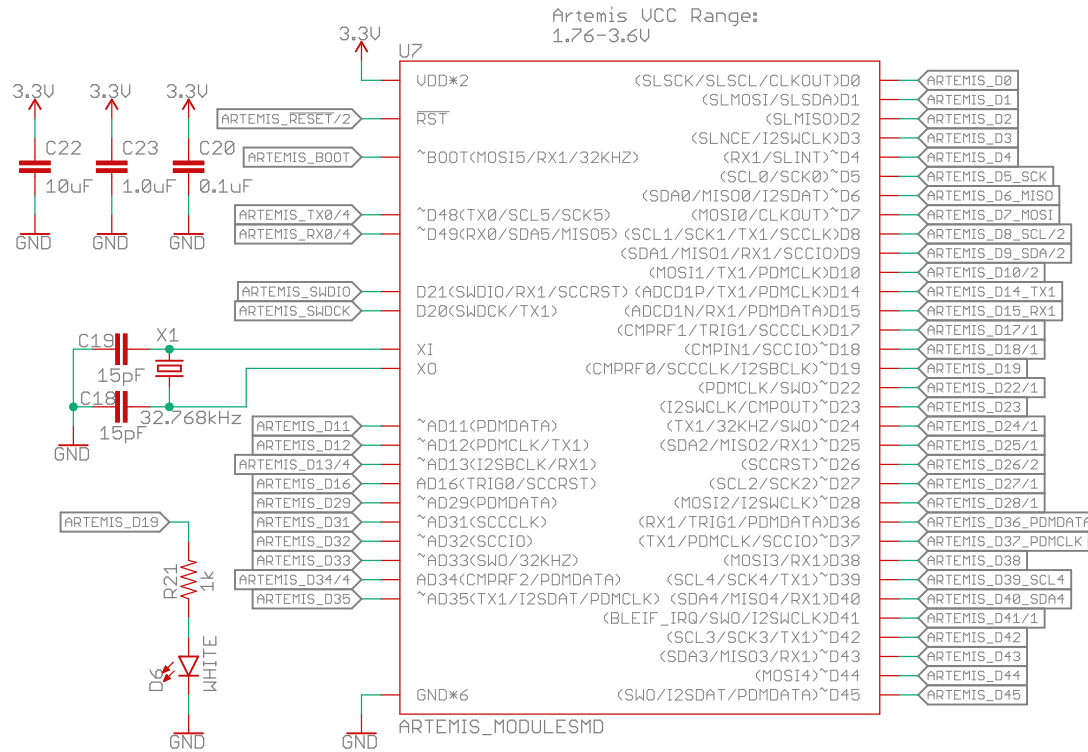
Design by:	Paul Clark Based on the SparkFun Artemis and Qwiic ZOE-M8Q
------------	--

REV:
V1

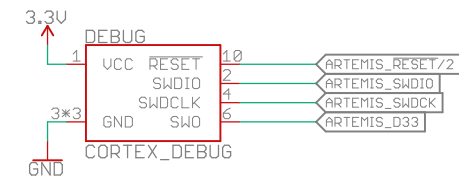
Date: 01/12/2019 09:02

Sheet: 2/4

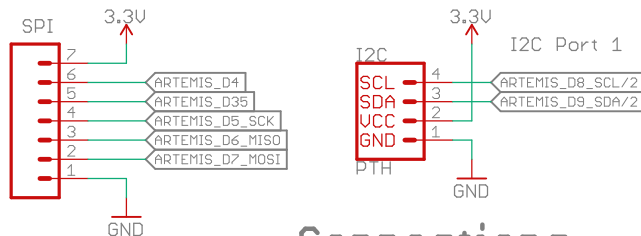
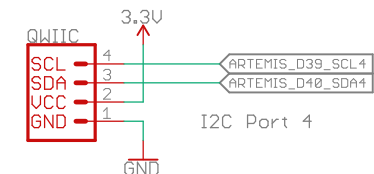
Artemis (Apollo3)



SWD Program/Debug Interface



I2C/Qwiic



Released under the Creative Commons
Attribution Share-Alike 4.0 License
<https://creativecommons.org/licenses/by-sa/4.0/>

TITLE: Artemis_Iridium_Tracker

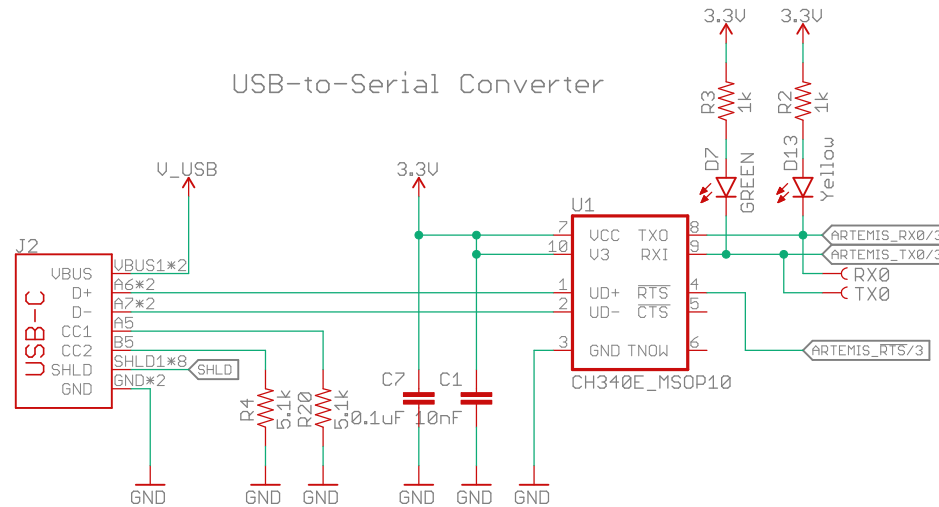
Design by: Paul Clark
Based on the SparkFun Artemis
and Qwiic ZOE-M8Q

REV:
V1

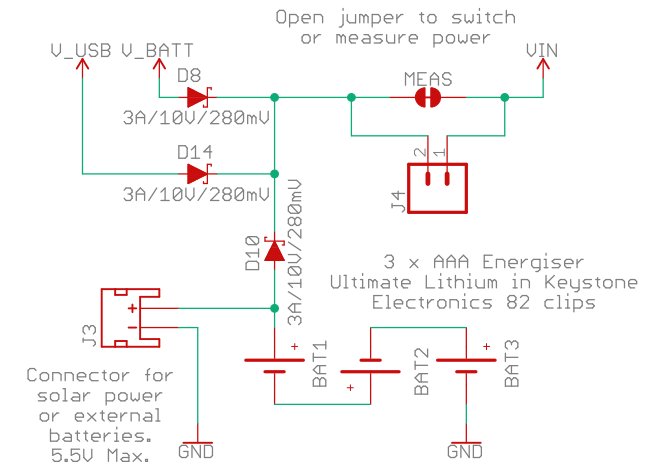
Date: 01/12/2019 09:02

Sheet: 3/4

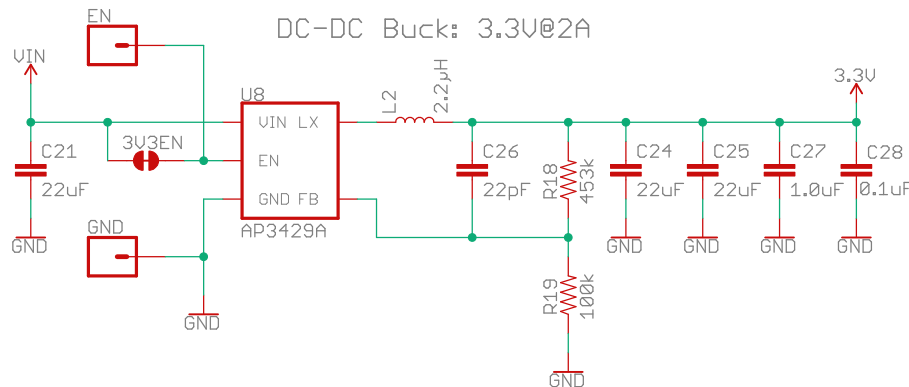
USB-to-Serial Converter



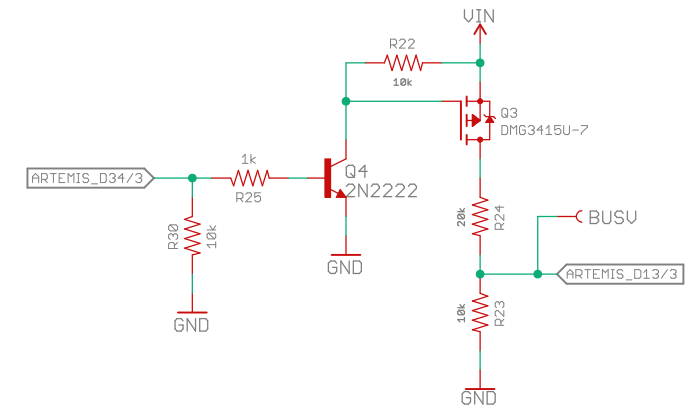
Power Source Select



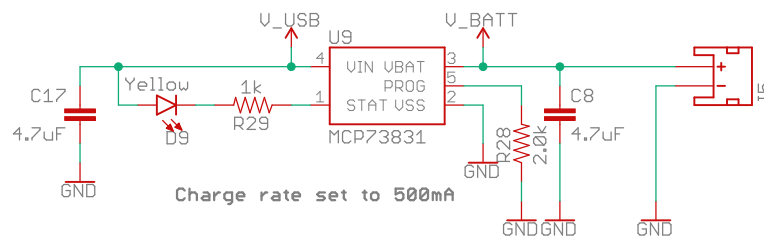
DC-DC Buck: 3.3V@2A



Bus Voltage Measurement



USB/LiPo Charger



Released under the Creative Commons
Attribution Share-Alike 4.0 License
<https://creativecommons.org/licenses/by-sa/4.0/>

TITLE: Artemis_Iridium_Tracker

Design by: Paul Clark
Based on the SparkFun Artemis
and Qwiic ZOE-M8Q

REV:
V1

Date: 01/12/2019 09:02

Sheet: 4/4