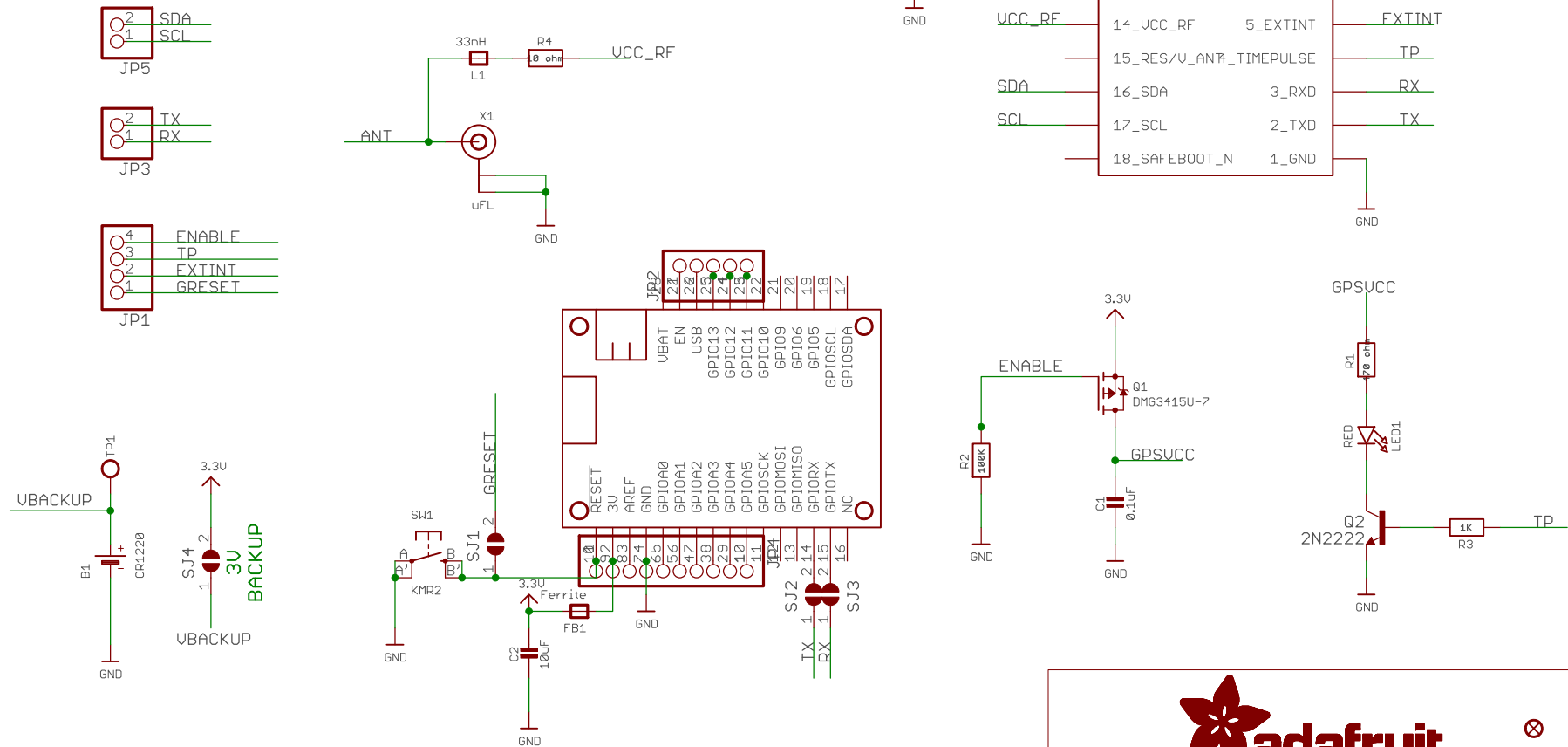


A clone of the Adafruit Ultimate GPS FeatherWing but with the u-blox MAX-M8Q replacing the GlobalTop FGPM0PA6H

Original design by Adafruit:  
<https://www.adafruit.com/product/3133>  
<https://github.com/adafruit/Adafruit-Ultimate-GPS-FeatherWing-PCB>



Solder SJ4 to use the main 3V supply to provide backup power to the MAX-M8Q. But, only do this if you will not be using the CR1220 battery.



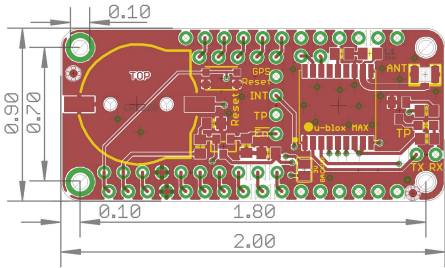
MAX-M8Q GPS FeatherWing

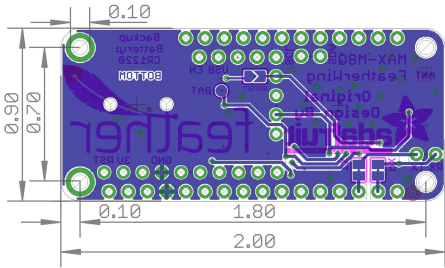
25/06/2017 15:15

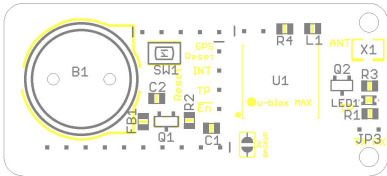
Sheet: 1/1

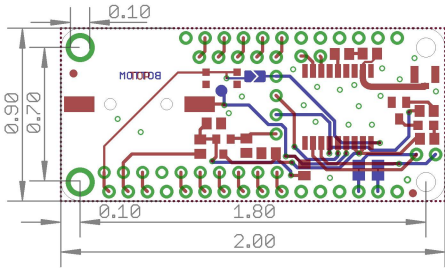
Drawing: >AUTHOR

Adafruit Industries









Name	X	Y	Angle	Package	Value	Farnell / Element 14	Comments
FID1	1.65	16.89		0 FIDUCIAL	1MM		
FID2	46.51	1.06		0 FIDUCIAL	1MM		
B1	10.38	12.83		0 CR1220 Holder		2064722	e.g. Multicomp CH291-1220LF
C1	27.43	6.35	180	0805	0.1uF	2496944	e.g. Walsin 0805B104K500CT
C2	20.19	10.29	0	0805	10uF	2496998	e.g. Walsin 0805F106Z100CT
FB1	18.41	7.22	90	0805	Ferrite	1635734	e.g. Wurth Elektronik 742792031 (300R @ 100MHz)
L1	40.87	19.51	180	0805	33nH	2286465	e.g. Coilcraft 0805HT-33NTGLB
LED1	48.23	10.06	90	0805 (2.0x1.25)	RED	1716768	e.g. Multicomp OVS-0808
Q1	21.46	7.24	180	SOT23-WIDE	DMG3415U-7	1843688	e.g. Diodes Inc DMG3415U-7
Q2	44.68	11.99	180	SOT23-BEC	2N2222	9846700	e.g. Fairchild MMBT2222A
R1	48.39	8.28	180	0805	470 ohm	9334572	e.g. Multicomp MC01W08055470R
R2	24.51	7.37	90	0805	100K	9333738	e.g. Multicomp MC01W08055100K
R3	48.34	11.94	0	0805	1K	9333711	e.g. Multicomp MC01W080551K
R4	37.13	19.51	180	0805	10 ohm	9332421	e.g. Multicomp MC01W0805110R
SW1	21.21	16.26	180	4.6X2.8		1605470	e.g. Multicomp MCIPTG23K-V
U1	36.6	12.47	270	MAX-M8Q	MAX-M8Q	<a href="https://www.u-blox.com/en/product/max-m8-series">https://www.u-blox.com/en/product/max-m8-series</a>	
X1	48.11	16.03	270	U.FL	uFL	3908021	e.g. Hirose U.FL-R-SMT(01)

#### Extras

B1				CR1220	3V Lithium	2065165	e.g. Multicomp CR1220
uFL to SMA Adaptor						2448785	e.g. RF Solutions CBA-UFLSMA-1