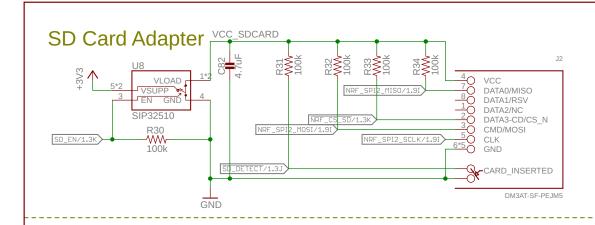
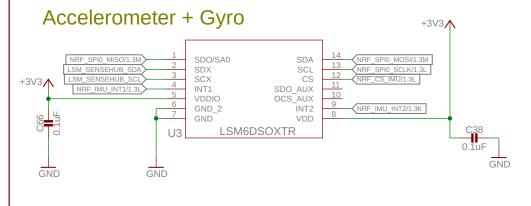


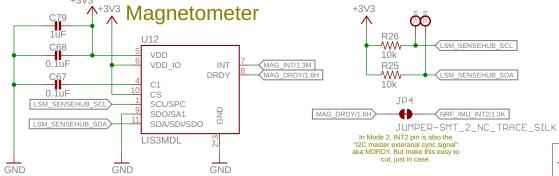
BATTERY

HCP643450NZC, 3.7V, 1200mah
Bare raw cell: 6.4*34.5*50.5mm max. in T*W*L
Assemble size: 6.4*34.5*52 mm max. in T*W*L
Over-charge voltage: 4.28V
Over- discharge voltage: 3.0V
Continuous charge rate: 0.2C
Peak charge rate:10.2C
Peak discharge rate:1.C
Continuous discharge rate: 0.2C
Peak discharge rate: 1.2

Total rate: 0.2
Peak discharge rate: 0.2
Peak discharge rate: 1.2
Continuous discharge rate: 0.2
Peak discharge rate: 1.2
Continuous discharge rate: 0.2
Peak discharge rate: 1.2
Peak discharge rate: 0.2
Peak discharge rate: 1.2
Peak disch







TotTag

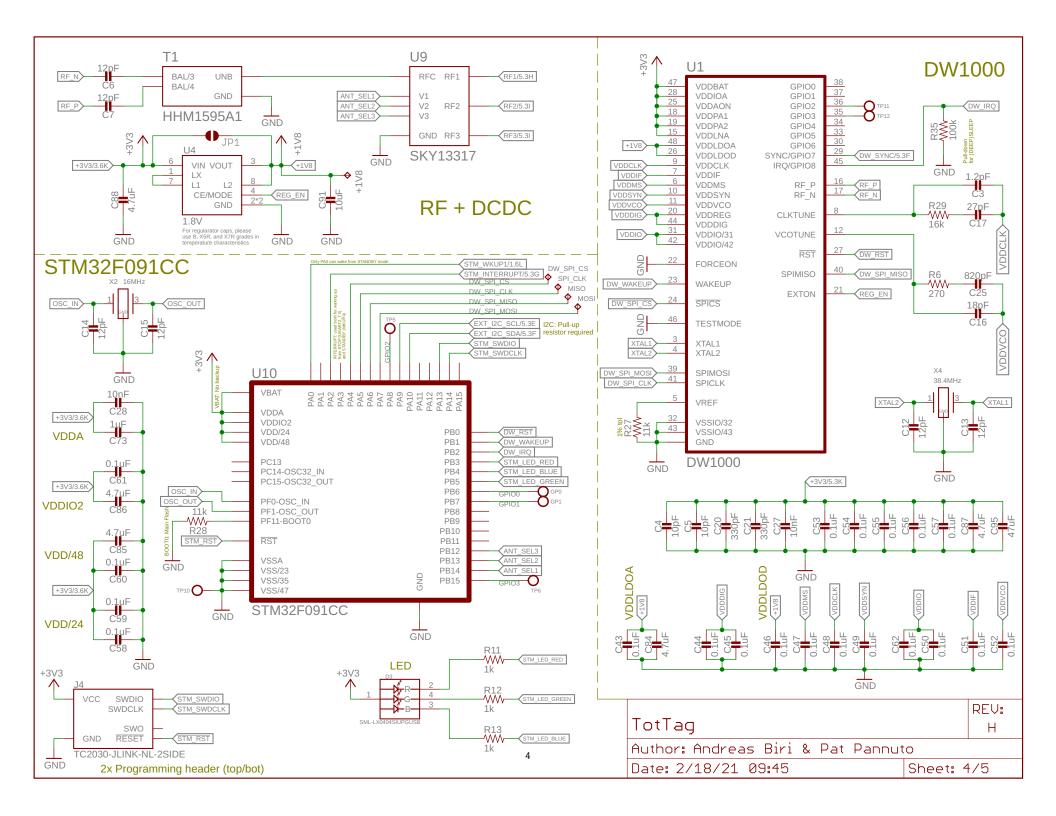
Author: Andreas Biri & Pat Pannuto

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REV:

Η

3



EXTERNAL SIGNALS

The following signals must be integrated into all designs using the design block:

Signals

EXT I2C SCL/4.6G

Note: Additional I2C pull-up resistors required to +3V3

DW SYNC/4.10C

STM INTERRUPT/4.6F

Antennas

RF1/4.6A

Guarantee 120° offset in-between antennas to maximize polarization difference and antenna diversity

RF2/4.6B RF3/4.6C

RF traces should respect the keepout zones and be surrounded by a via shield.

Furthermore, try to keep them as short and straight as possible

Power Supply

+3V3/4.10K

Be aware that the DecaWave is very sensitive regarding its power supply.

We suggest using the "MAX8887EZK33+T" from Maxim Integrated.

You can find a reference layout at github.com/lab11/totternary/hardware/tottag.

TotTag REV:

Author: Andreas Biri & Pat Pannuto

Date: 2/18/21 09:45 Sheet: 5/5

