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[illegible]

Accelerometer

Antennas

The diagram illustrates three antennas, labeled A1, A2, and A3, each connected to a corresponding RF input block. The antennas are represented by red outlines of a horn or funnel shape. The labels above them are A1 TAIYO-YUDEN-AH086M, A2 TAIYO-YUDEN-AH086M, and A3 TAIYO-YUDEN-AH086M. The RF input blocks are green rounded rectangles with black outlines, labeled RF1/3,6A, RF2/3,6B, and RF3/3,6C. Green lines connect each antenna to its respective RF block: A1 to RF1, A2 to RF2, and A3 to RF3.

SD Card Adapter

SD Card Adapter

U12 SIP32510

R19 100k

C77 4.7uF

R20 100k

R21 10k

R22 10k

R23 10k

NRF_MISO/1.3K

NRF_CS_SD/1.3K

NRF_MOSI/1.3K

NRF_SCK/1.3L

SD_DETECT/1.6H

CON_MICRO_SDDM3AT-SF-PEJM5

J7

VCC

DATA0/MISO

DATA1/RSU

DATA2/NC

DATA3-CD/CS_N

CMD/MOSI

CLK

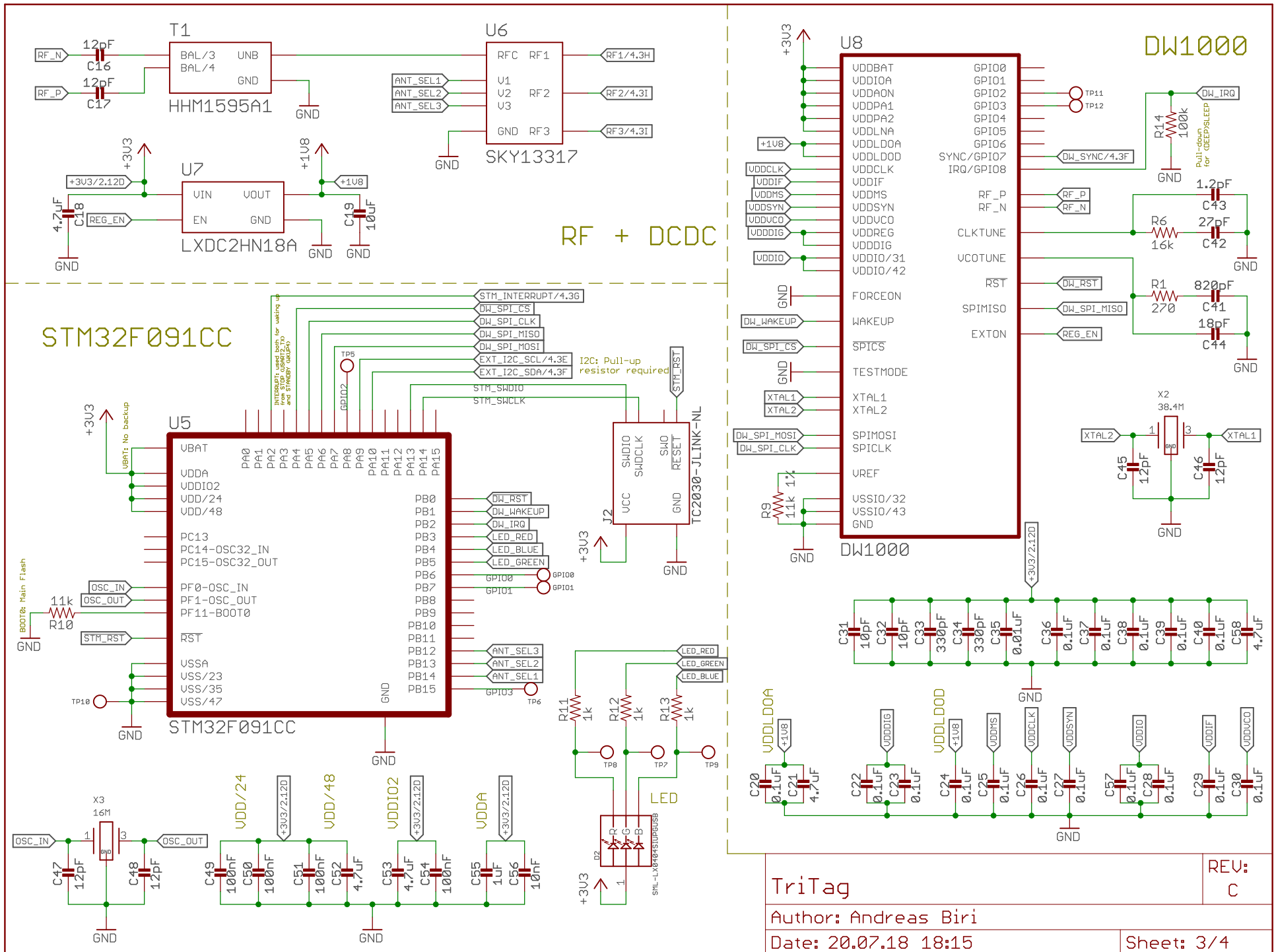
GND

CARD_INSERTED

USB-Serial

Mount 0-Ohm resistors only if you intend to use the FTDI; this prevents unintentional power draws

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EXTERNAL SIGNALS

The following signals must be integrated into all designs.

Signals

—  EXT_I2C_SCL/3.5G

—  EXT_I2C_SDA/3.5G

—  DW_SYNC/3.10C

—  STM_INTERRUPT/3.5F

Note: Additional I2C pull-up required.

Antennas

—  RF1/3.6A


—  RF2/3.6B

—  RF3/3.6C

Guarantee 120° offset in-between

RF traces should respect the keep-out zone.
Furthermore, try to keep them as short as possible.

Power Supply

—  +3V3/3.10K

Be aware that the DecaWave is v

We suggest using the "MAX887EZ" as a voltage divider.
You can find a reference layout

signs using the design block:

resistors required to +3V3

antennas to maximize polarization difference and antenna diversity

apout zones and be surrounded by a via shield.
short and straight as possible

ery sensitive regarding its power supply.

"K33+T" from Maxim Integrated.
at github.com/lab11/polypoint/pcb/tritag.

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