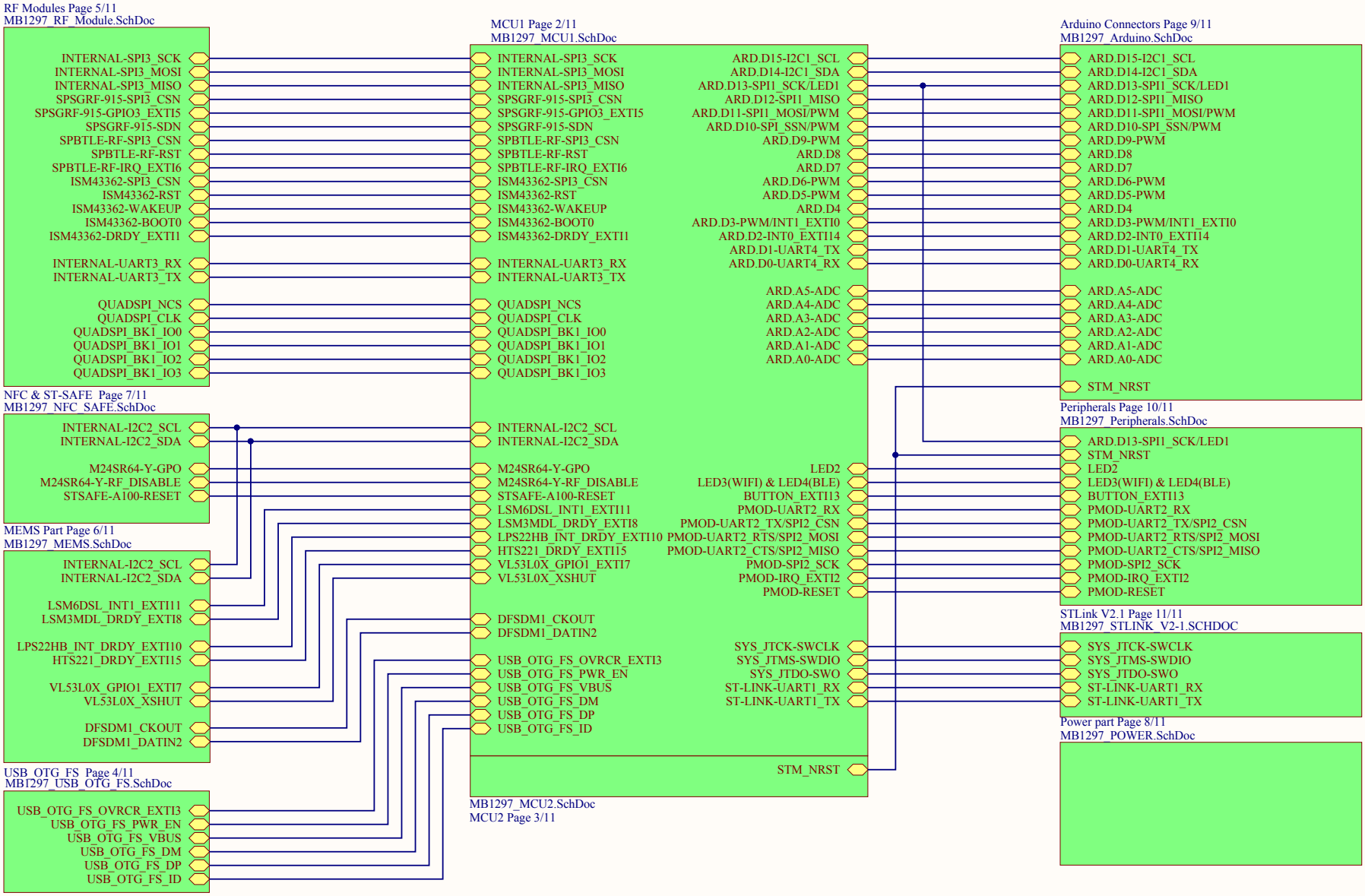
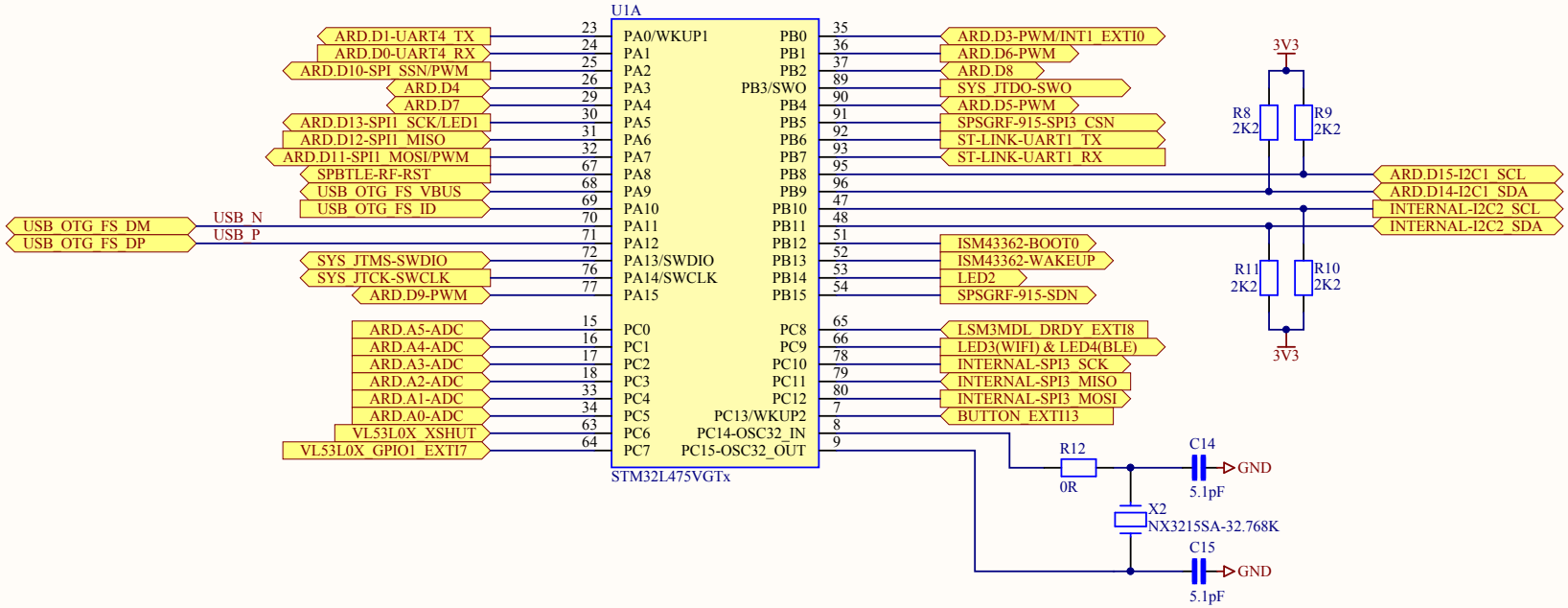


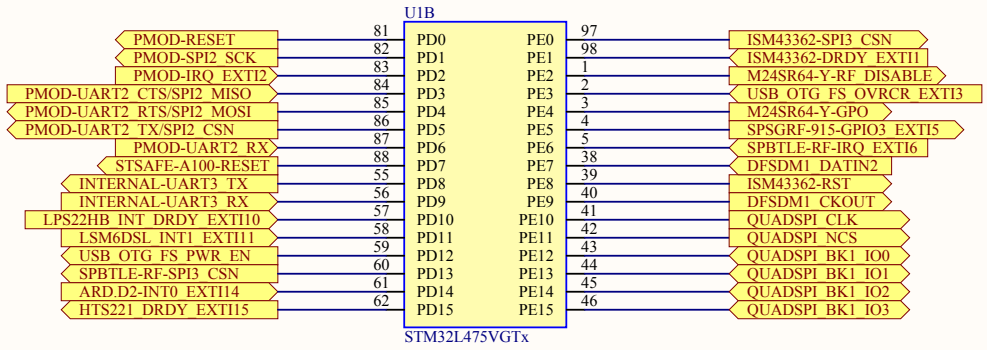

Designed by DiZiC

**MB1297**

| | | |
|---|---|---|
| Title: **IOT Node Discovery Kit** | | |
| Project: **Project** | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 1 of 11 |

life.augmented

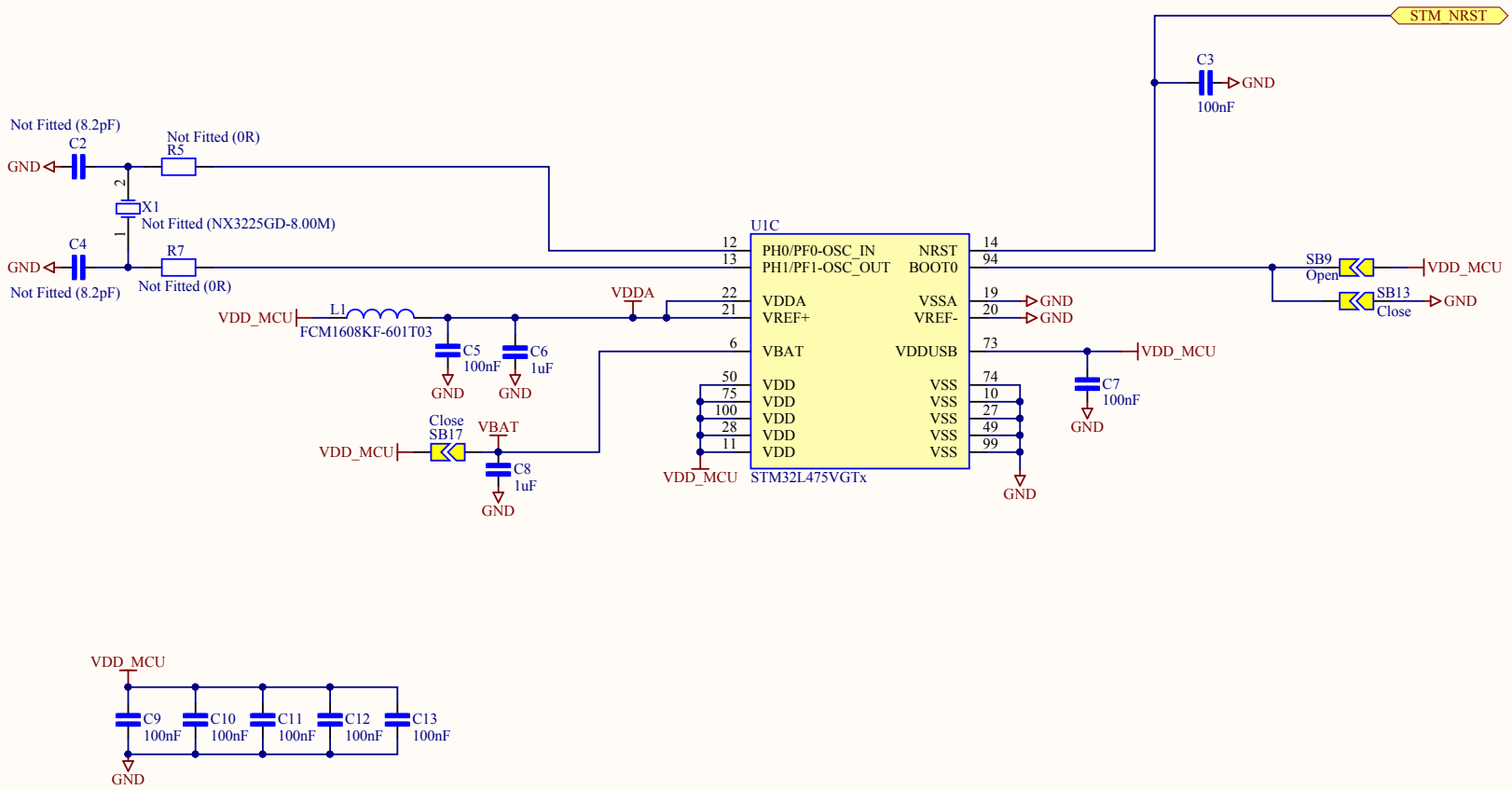



Designed by DiZiC

| | | |
|---|---|---|
| Title: **STM32L475 - 1/2** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 2 of 11 |

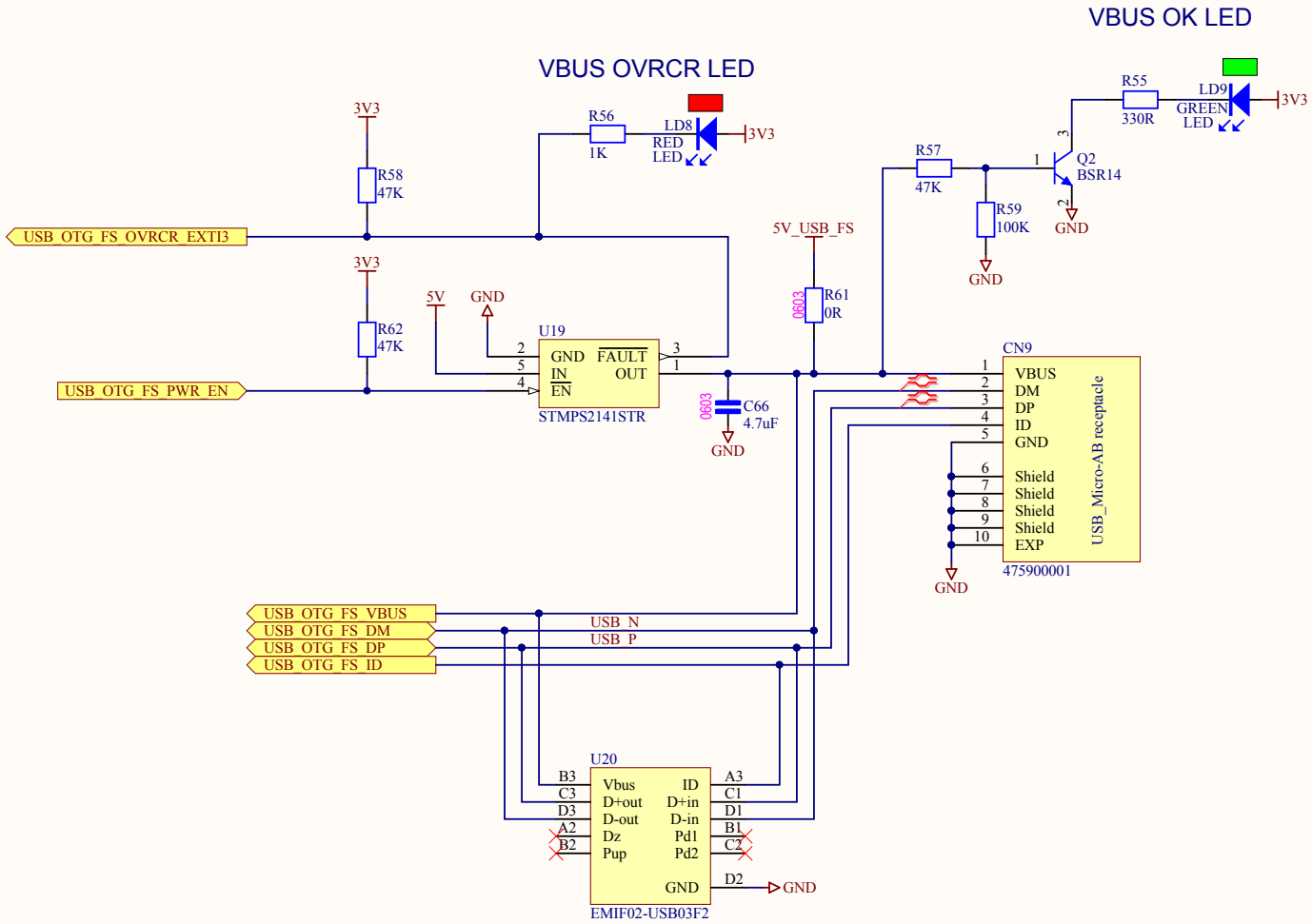
life.augmented




Designed by DiZiC

| | | |
|---|---|---|
| Title: **STM32L475 - 2/2** | | |
| Project: **Project** | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 3 of 11 |

life.augmented

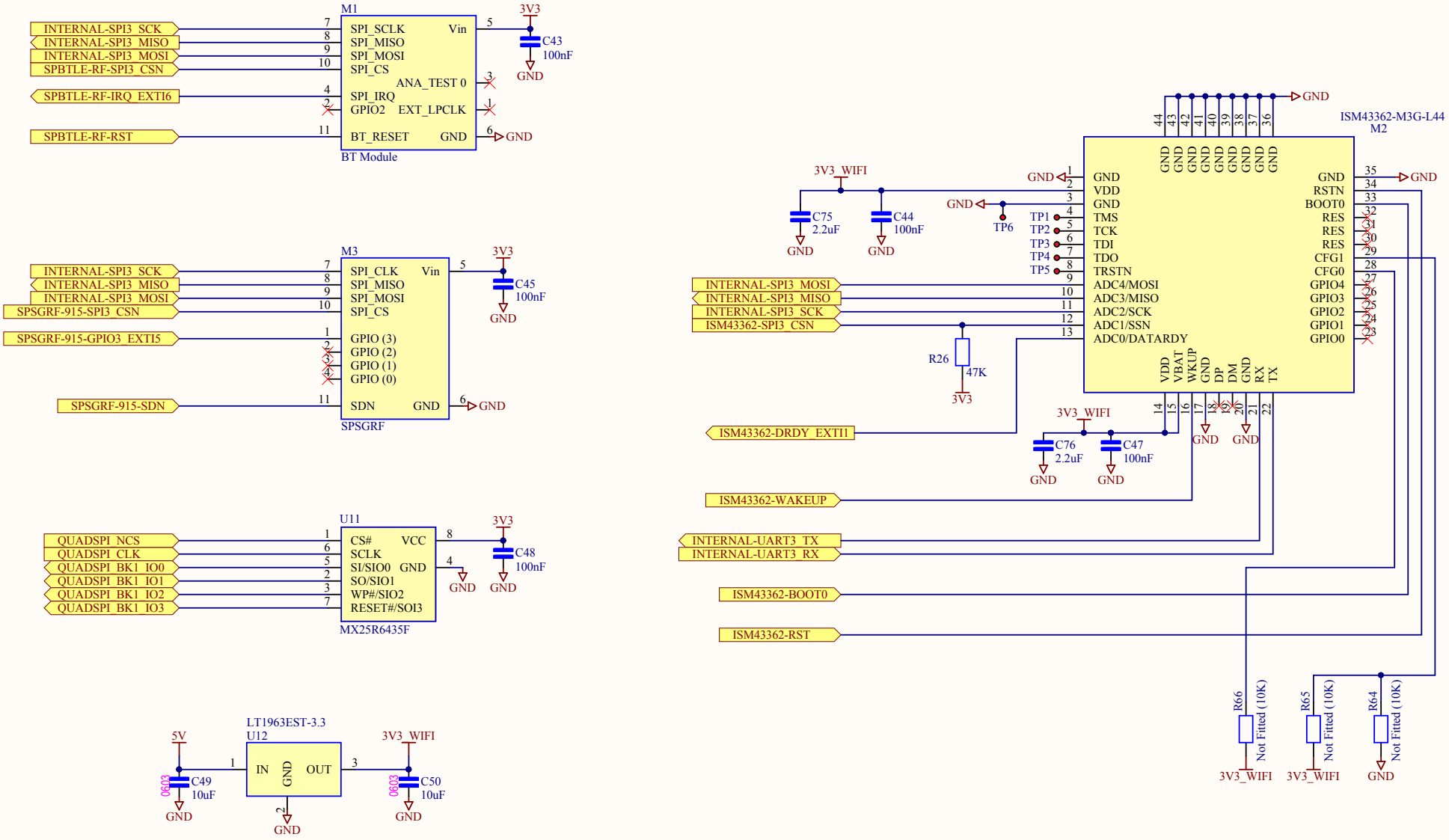



ESD PROTECTION SHOULD BE CLOSE TO THE CONNECTOR

Designed by DiZiC

| | | |
|---|---|---|
| Title: **USB_OTG_FS** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 4 of 11 |

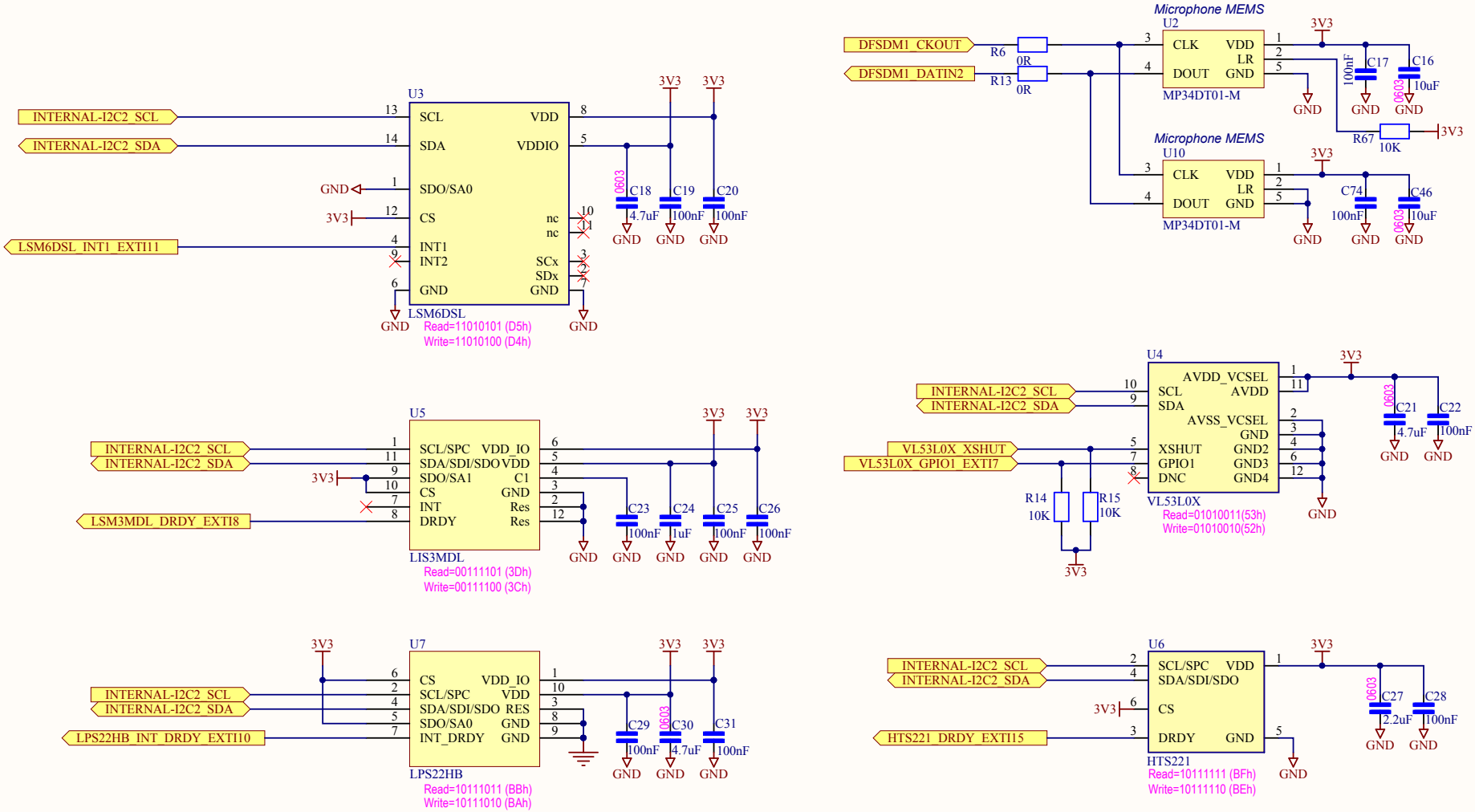
life.augmented




Designed by DiZiC

| | | |
|---|---|---|
| Title: **RF Modules** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 5 of 11 |

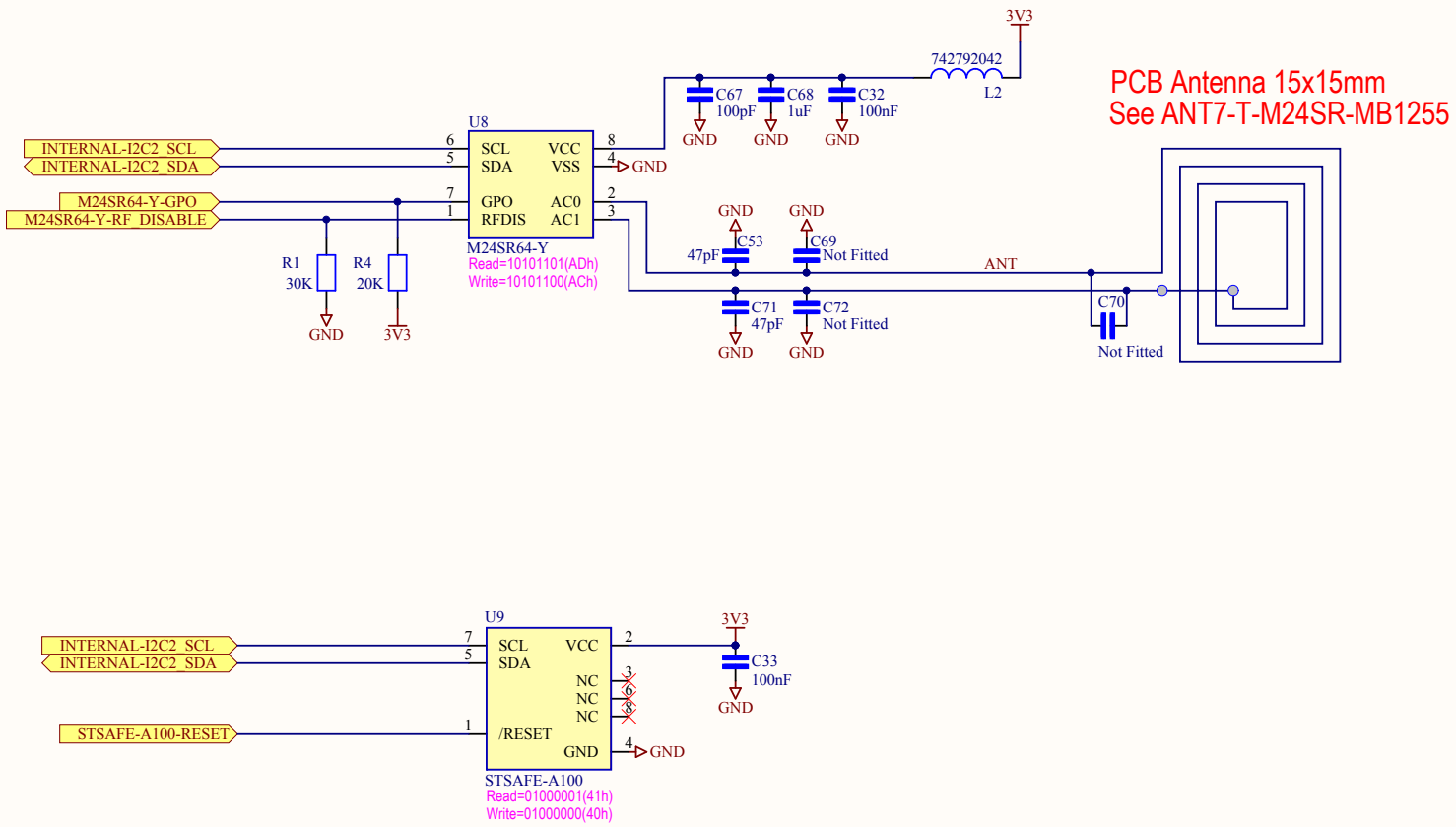
life.augmented




Designed by DiZiC

| | | |
|---|---|---|
| Title: **MEMS Sensors** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 6 of 11 |

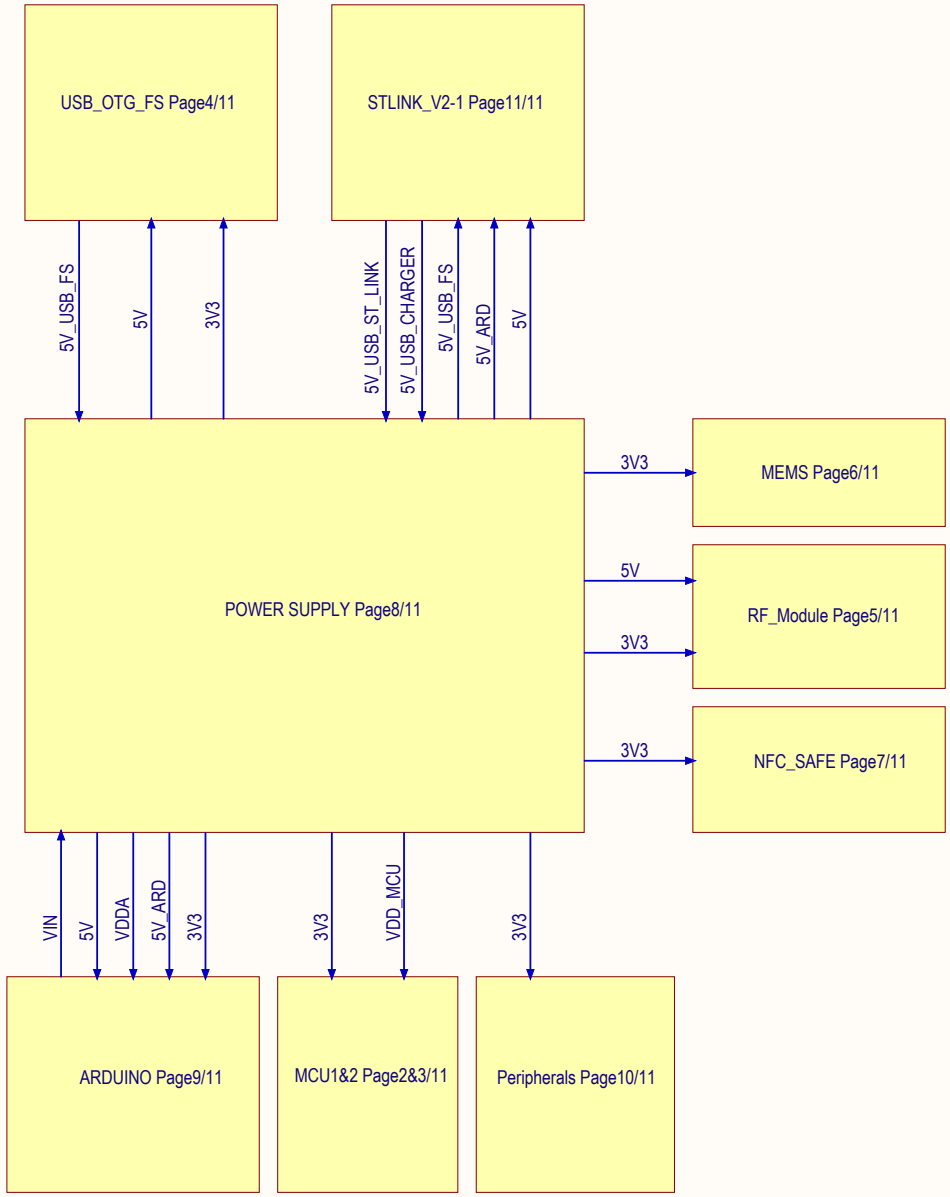
life.augmented



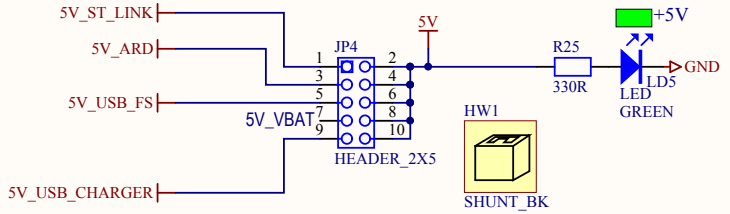

Designed by DiZiC

| | | |
|---|---|---|
| Title: **NFC & ST-SAFE Part** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 7 of 11 |

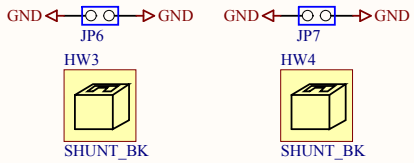
life.augmented




## 5V PWR SELECTION FROM EXTERNAL SOURCES

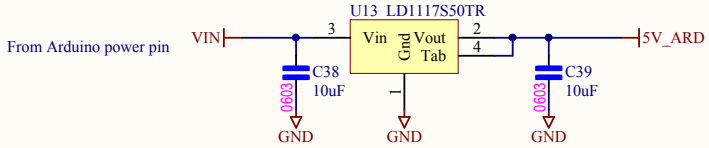



## GND PROBE



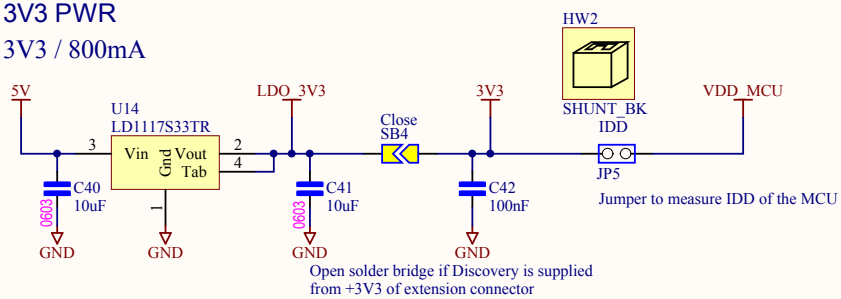

## 5V INPUT PWR FROM ARDUINO

5V / 800mA




## 3V3 PWR

3V3 / 800mA

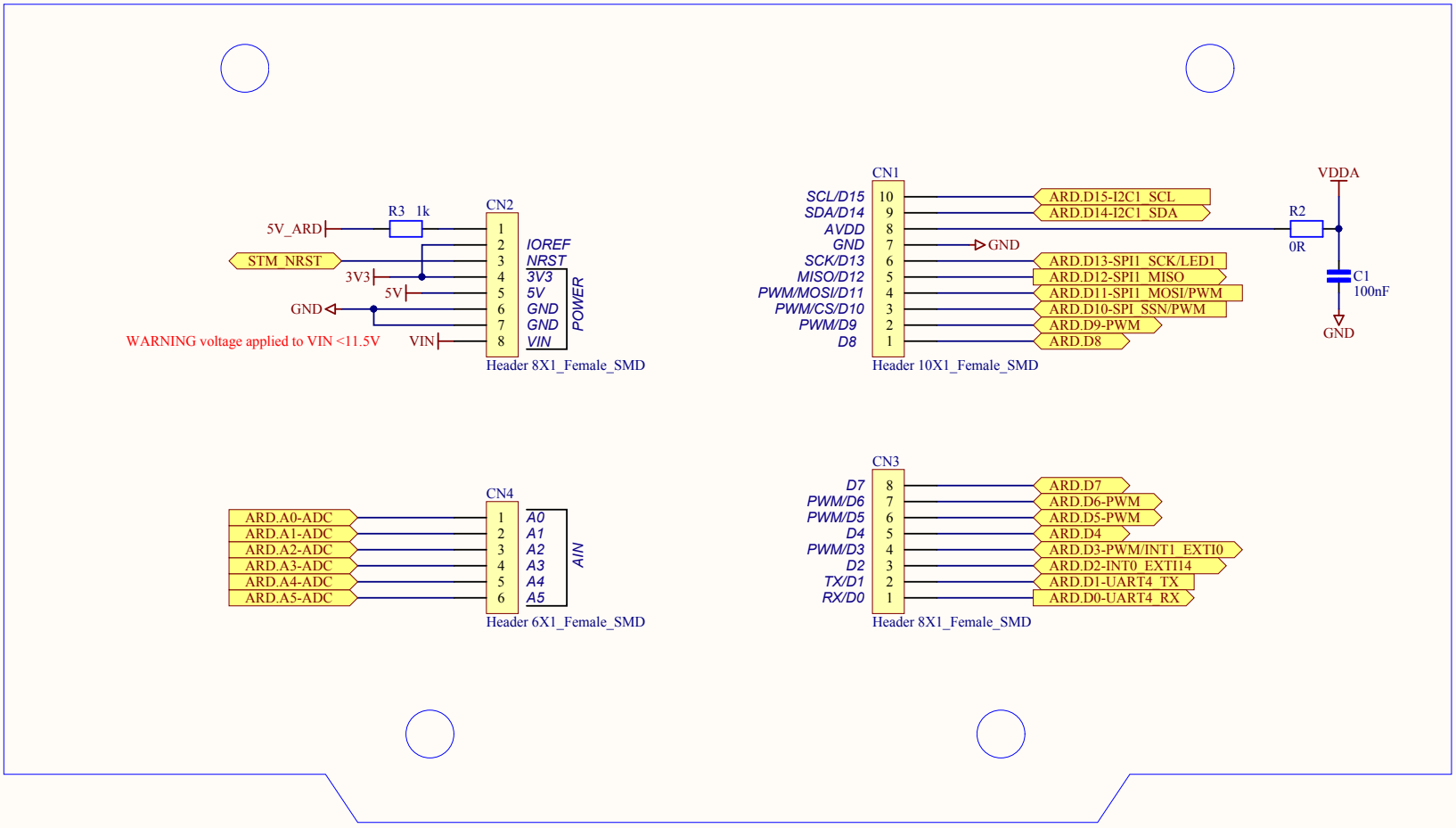



Designed by DiZiC

| | | |
|---|---|---|
| Title: **POWER SUPPLY** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 8 of 11 |

life.augmented

## ARDUINO UNO connector

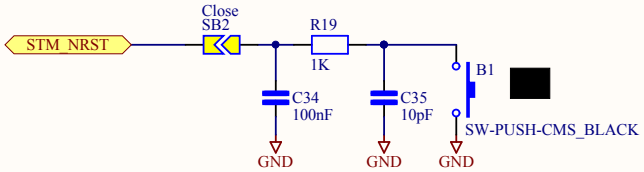



Designed by DiZiC

| | | |
|---|---|---|
| Title: **Arduino Uno connector** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 9 of 11 |

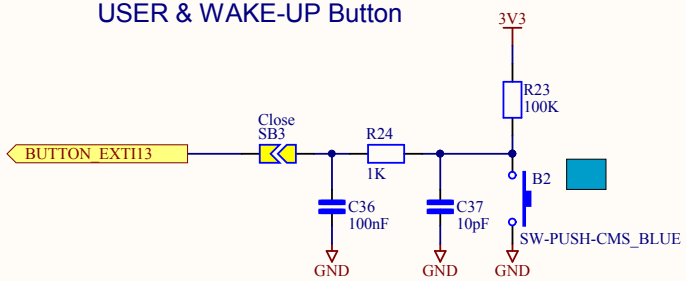
life.augmented

## RESET BUTTON




100nF should be place close to the MCU
10pF and 1K should be place close to the button

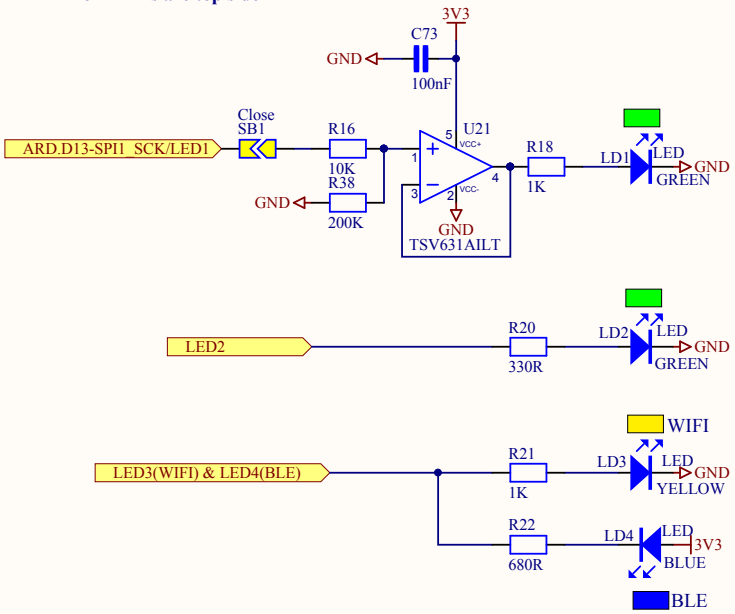
## USER & WAKE-UP Button



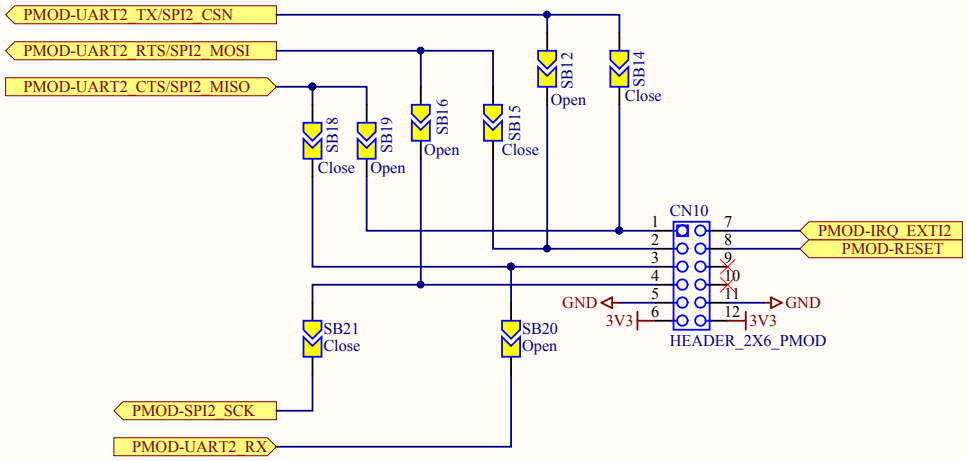

100nF should be place close to the MCU
10pF and 1K should be place close to the button

## USER LED

**The 2 LEDs are top side**



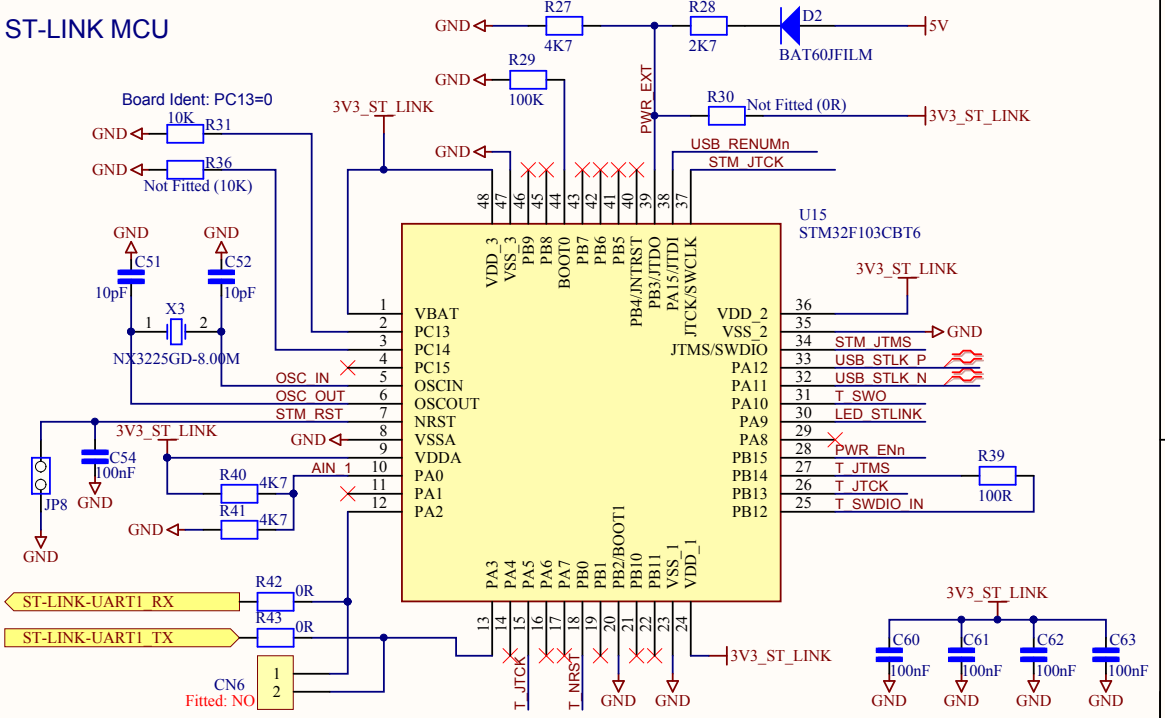

## PMOD

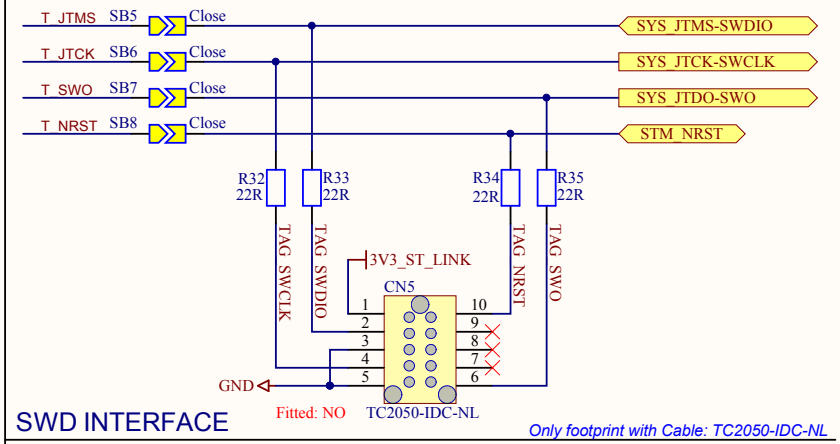


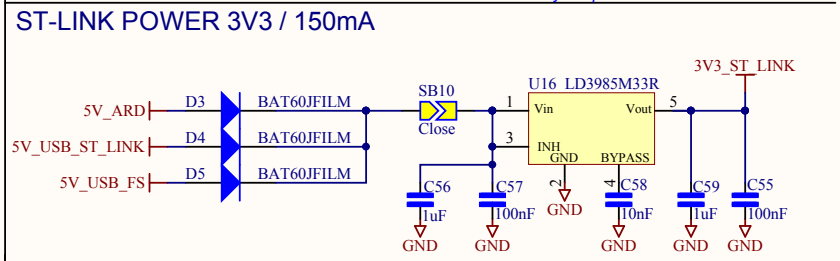

Designed by DiZiC

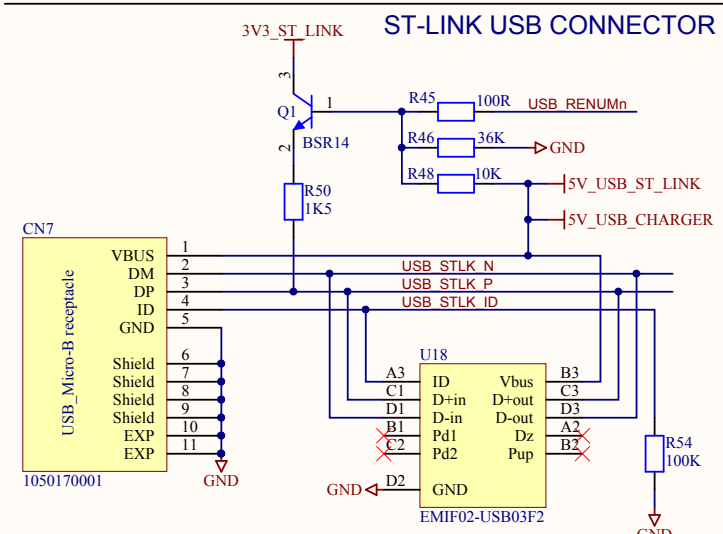
| | | |
|---|---|---|
| Title: **Peripherals** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 10 of 11 |

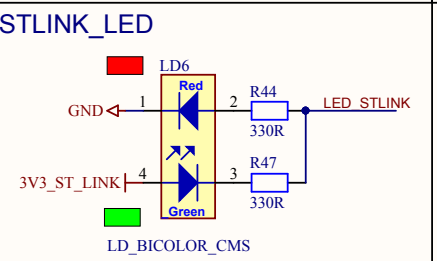
life.augmented

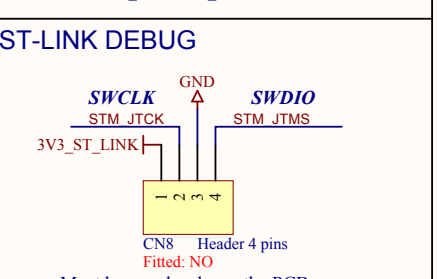


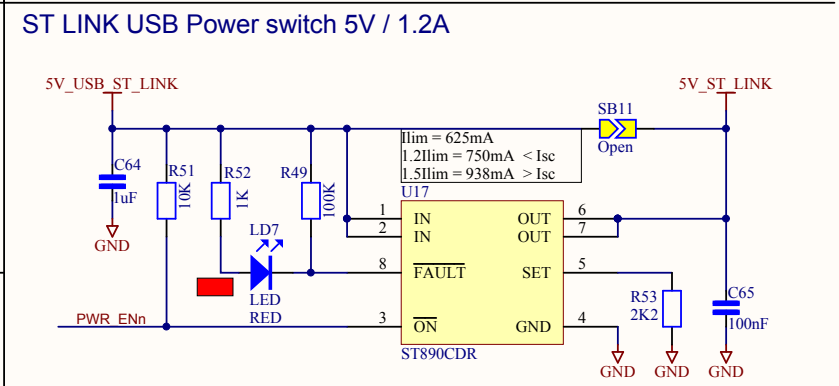



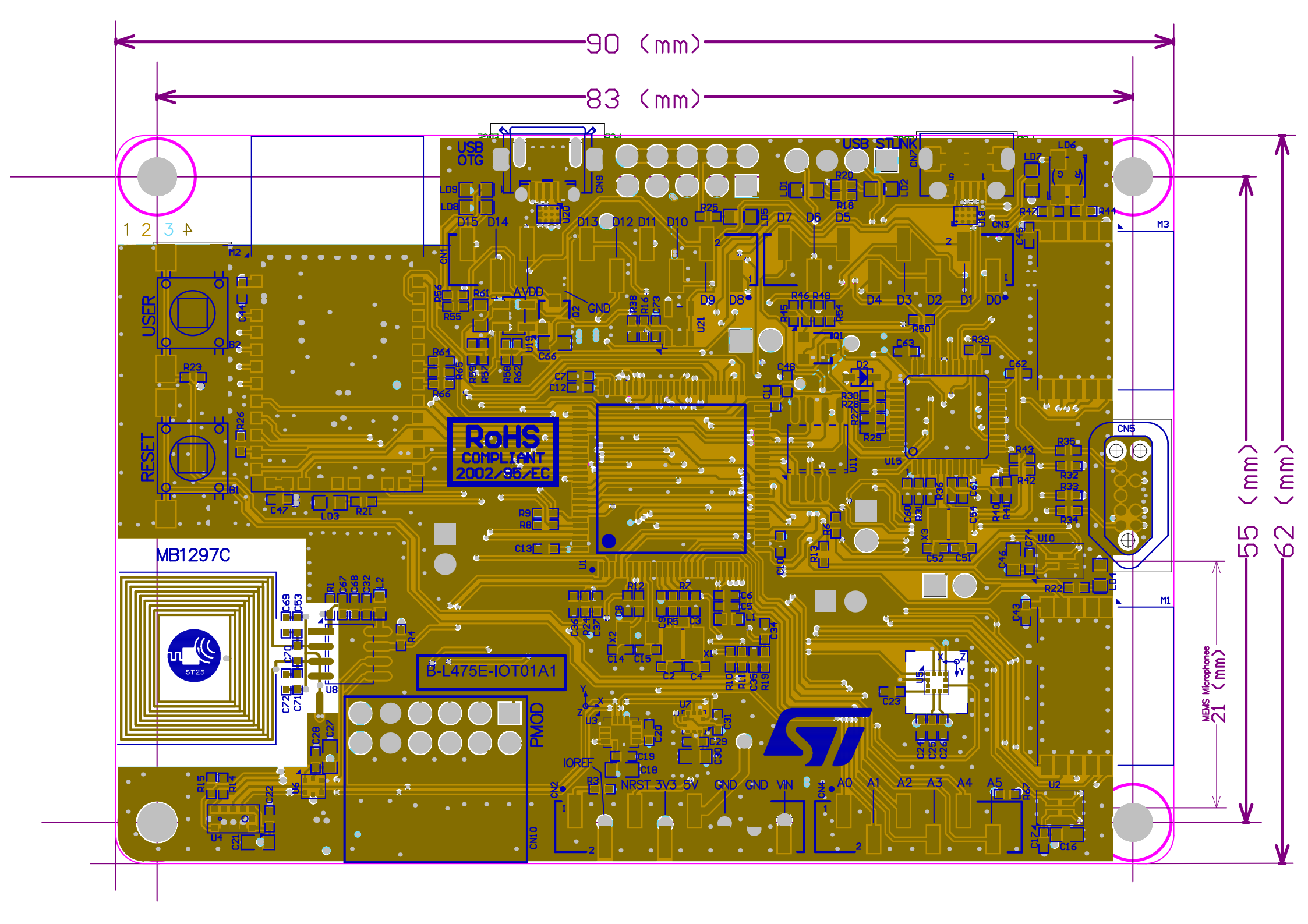




Designed by DiZiC

| | | |
|---|---|---|
| Title: **ST-LINK/V2-1 with support of SWD only** | | |
| Project: | | |
| Size: A4 | Reference: MB1297 | Revision: C |
| Date: 12/16/2016 | | Sheet: 11 of 11 |

life.augmented


90 (mm)
83 (mm)
55 (mm)
62 (mm)
MEMS Microphones
21 (mm)
USB OTG
USB STLINK
USER
RESET
RoHS
COMPLIANT
2002/95/EC
MB1297C
B-L475E-IOT01A1
PMOD
AVDD
GND
IOREF
NRST 3V3 5V GND GND VIN
A0 A1 A2 A3 A4 A5
CN1
CN2
CN3
CN4
CN5
CN7
CN9
CN10
M1
M2
M3