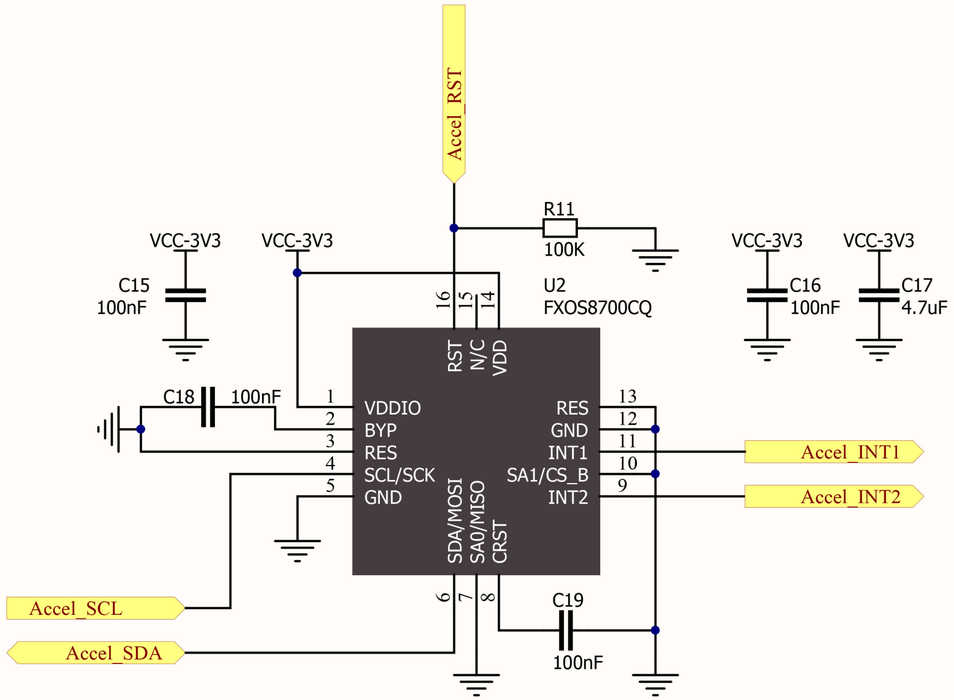
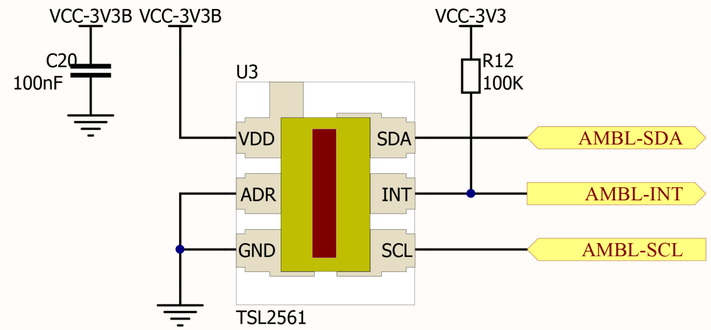
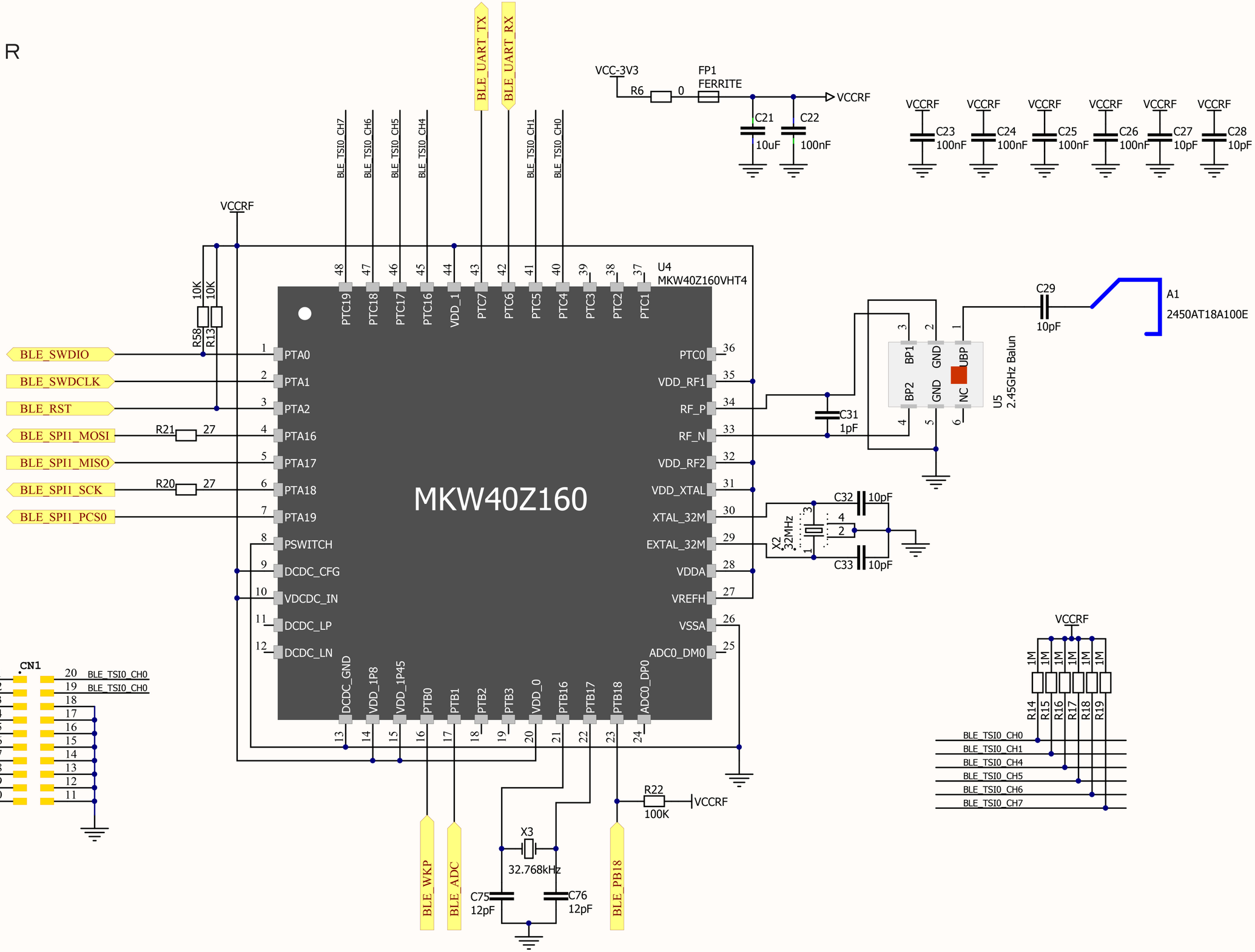
HEXIWEAR


Accel_RST
R11
100K
VCC-3V3
VCC-3V3
C15
100nF
U2
FXOS8700CQ
VCC-3V3
VCC-3V3
C16
100nF
C17
4.7uF
16
15
14
RST
N/C
VDD
C18
100nF
1
2
3
4
5
VDDIO
BYP
RES
SCL/SCK
GND
13
12
11
10
9
RES
GND
INT1
SA1/CS_B
INT2
Accel_INT1
Accel_INT2
SDA/MOSI
SA0/MISO
CRST
6
7
8
C19
100nF
Accel_SCL
Accel_SDA

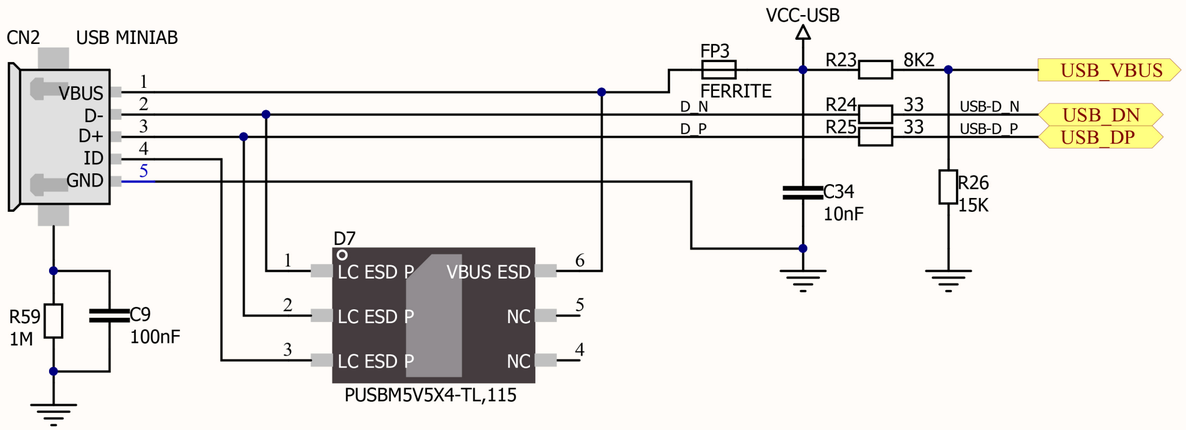
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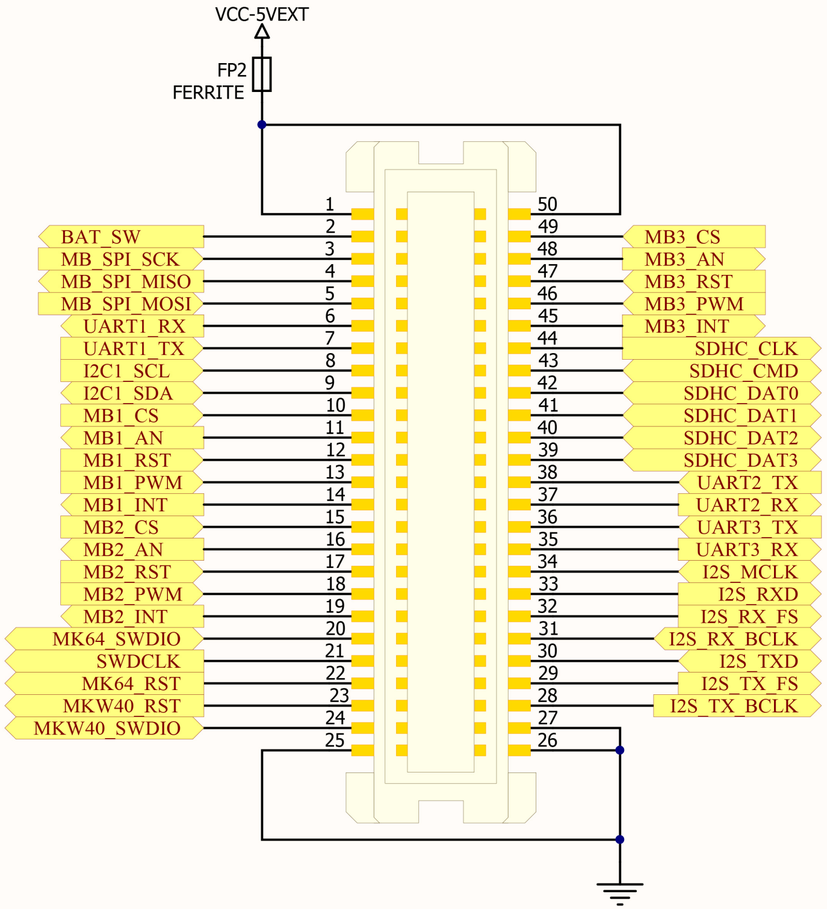

VCC-3V3B
VCC-3V3B
VCC-3V3
C20
100nF
U3
R12
100K
VDD
SDA
AMBL-SDA
ADR
INT
AMBL-INT
GND
SCL
AMBL-SCL
TSL2561

HEXIWEAR

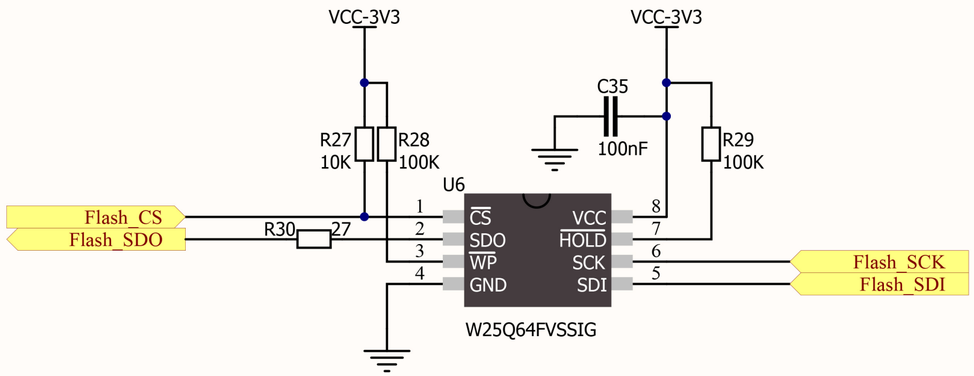

BLE_UART_TX
BLE_UART_RX
VCC-3V3
R6
0
FP1
FERRITE
VCCRF
C21
10uF
C22
100nF
C23 100nF
C24 100nF
C25 100nF
C26 100nF
C27 10pF
C28 10pF
BLE_TSI0_CH7
BLE_TSI0_CH6
BLE_TSI0_CH5
BLE_TSI0_CH4
BLE_TSI0_CH1
BLE_TSI0_CH0
VCCRF
10K
10K
R58
R13
U4
MKW40Z160VHT4
PTC19 48
PTC18 47
PTC17 46
PTC16 45
VDD_1 44
PTC7 43
PTC6 42
PTC5 41
PTC4 40
PTC3 39
PTC2 38
PTC1 37
BLE_SWDIO
BLE_SWDCLK
BLE_RST
BLE_SPI1_MOSI
BLE_SPI1_MISO
BLE_SPI1_SCK
BLE_SPI1_PCS0
R21
R20
27
27
1 PTA0
2 PTA1
3 PTA2
4 PTA16
5 PTA17
6 PTA18
7 PTA19
8 PSWITCH
9 DCDC_CFG
10 VDCDC_IN
11 DCDC_LP
12 DCDC_LN
MKW40Z160
PTC0 36
VDD_RF1 35
RF_P 34
RF_N 33
VDD_RF2 32
VDD_XTAL 31
XTAL_32M 30
EXTAL_32M 29
VDDA 28
VREFH 27
VSSA 26
ADC0_DM0 25
DCDC_GND 13
VDD_1P8 14
VDD_1P45 15
PTB0 16
PTB1 17
PTB2 18
PTB3 19
VDD_0 20
PTB16 21
PTB17 22
PTB18 23
ADC0_DP0 24
C29
10pF
A1
2450AT18A100E
C31
1pF
BP1
GND
UBP
BP2
GND
NC
U5
2.45GHz Balun
C32 10pF
C33 10pF
X2
32MHz
R22
100K
VCCRF
X3
32.768kHz
C75
12pF
C76
12pF
BLE_WKP
BLE_ADC
BLE_PB18
CN1
BLE_TSI0_CH1 1
BLE_TSI0_CH1 2
BLE_TSI0_CH4 3
BLE_TSI0_CH4 4
BLE_TSI0_CH5 5
BLE_TSI0_CH5 6
BLE_TSI0_CH6 7
BLE_TSI0_CH6 8
BLE_TSI0_CH7 9
BLE_TSI0_CH7 10
20 BLE_TSI0_CH0
19 BLE_TSI0_CH0
18
17
16
15
14
13
12
11
VCCRF
1M
R14
R15
R16
R17
R18
R19
BLE_TSI0_CH0
BLE_TSI0_CH1
BLE_TSI0_CH4
BLE_TSI0_CH5
BLE_TSI0_CH6
BLE_TSI0_CH7

HEXIWEAR

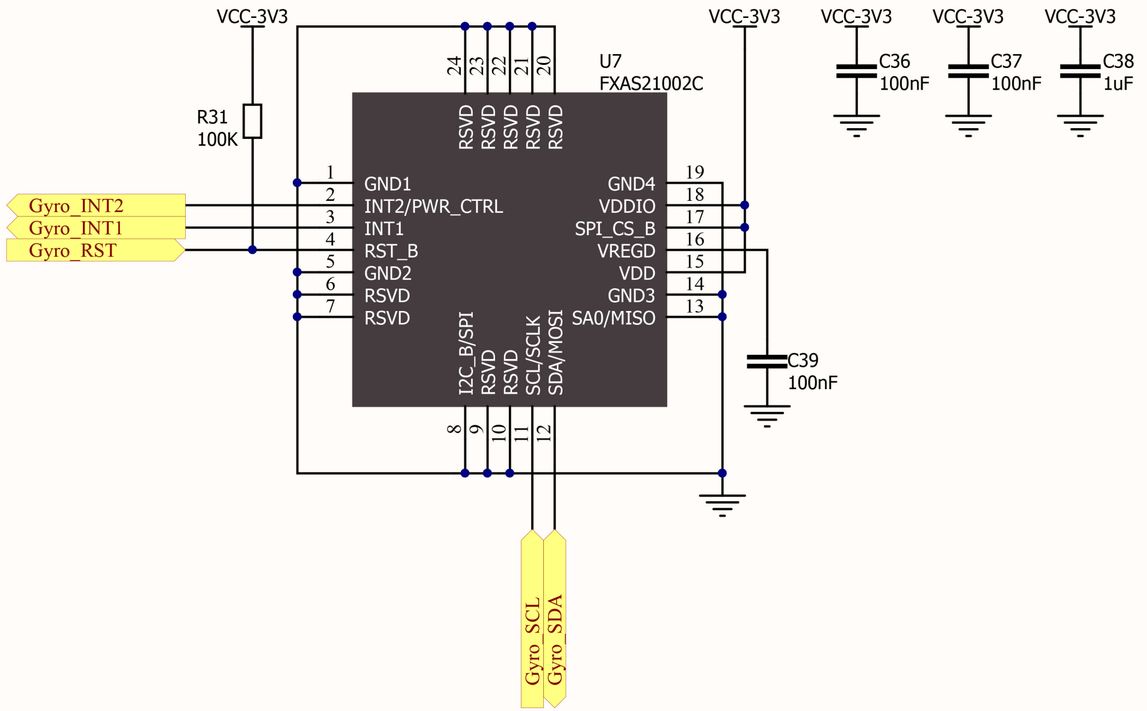

CN2
USB MINIAB
VBUS
D-
D+
ID
GND
1
2
3
4
5
R59
1M
C9
100nF
D7
LC ESD P
LC ESD P
LC ESD P
VBUS ESD
NC
NC
1
2
3
6
5
4
PUSBM5V5X4-TL,115
VCC-USB
FP3
FERRITE
D_N
D_P
R23
8K2
R24
33
R25
33
USB-D_N
USB-D_P
USB_VBUS
USB_DN
USB_DP
C34
10nF
R26
15K

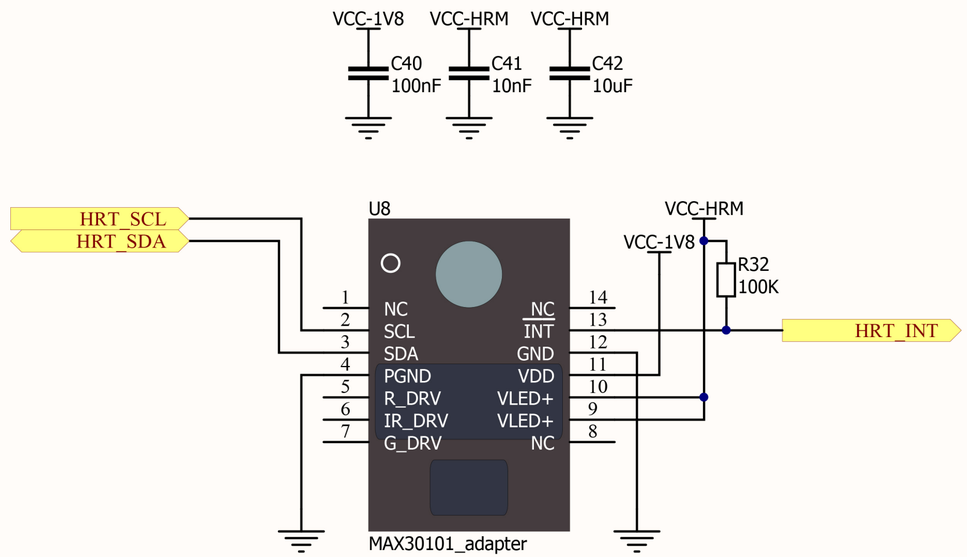

VCC-5VEXT
FP2
FERRITE
BAT_SW
MB_SPI_SCK
MB_SPI_MISO
MB_SPI_MOSI
UART1_RX
UART1_TX
I2C1_SCL
I2C1_SDA
MB1_CS
MB1_AN
MB1_RST
MB1_PWM
MB1_INT
MB2_CS
MB2_AN
MB2_RST
MB2_PWM
MB2_INT
MK64_SWDIO
SWDCLK
MK64_RST
MKW40_RST
MKW40_SWDIO
MB3_CS
MB3_AN
MB3_RST
MB3_PWM
MB3_INT
SDHC_CLK
SDHC_CMD
SDHC_DAT0
SDHC_DAT1
SDHC_DAT2
SDHC_DAT3
UART2_TX
UART2_RX
UART3_TX
UART3_RX
I2S_MCLK
I2S_RXD
I2S_RX_FS
I2S_RX_BCLK
I2S_TXD
I2S_TX_FS
I2S_TX_BCLK

HEXIWEAR

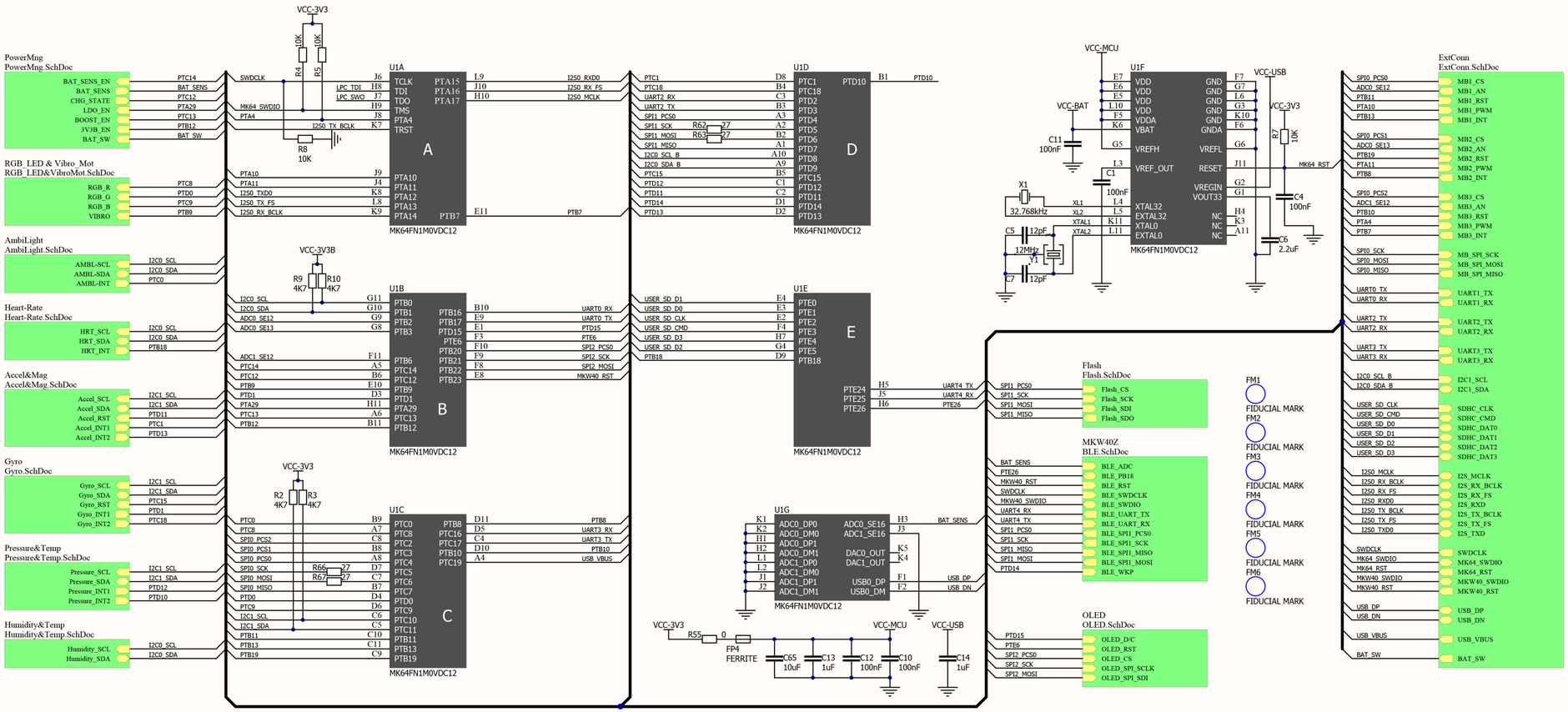

VCC-3V3
VCC-3V3
C35
100nF
R27
10K
R28
100K
R29
100K
U6
Flash_CS
Flash_SDO
R30
27
1
2
3
4
CS
SDO
WP
GND
VCC
HOLD
SCK
SDI
8
7
6
5
Flash_SCK
Flash_SDI
W25Q64FVSSIG

HEXIWEAR


VCC-3V3
VCC-3V3
VCC-3V3
VCC-3V3
VCC-3V3
R31
100K
U7
FXAS21002C
C36
100nF
C37
100nF
C38
1uF
C39
100nF
Gyro_INT2
Gyro_INT1
Gyro_RST
Gyro_SCL
Gyro_SDA
GND1
INT2/PWR_CTRL
INT1
RST_B
GND2
RSVD
RSVD
GND4
VDDIO
SPI_CS_B
VREGD
VDD
GND3
SA0/MISO
I2C_B/SPI
RSVD
RSVD
SCL/SCLK
SDA/MOSI
RSVD
RSVD
RSVD
RSVD
RSVD
1
2
3
4
5
6
7
8
9
10
11
12
13
14
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21
22
23
24

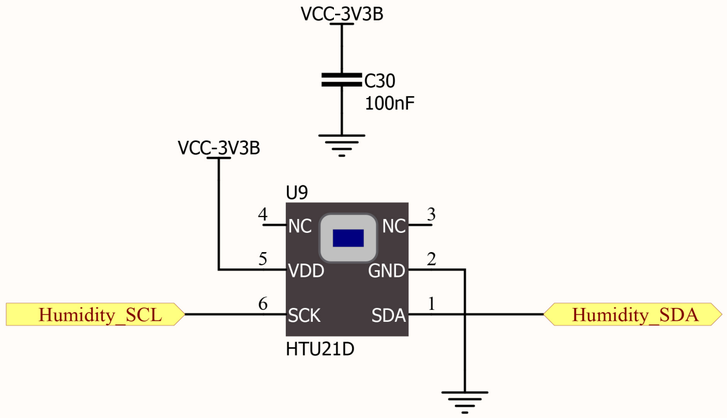

VCC-1V8
VCC-HRM
VCC-HRM
C40
100nF
C41
10nF
C42
10uF
HRT_SCL
HRT_SDA
U8
VCC-HRM
VCC-1V8
R32
100K
HRT_INT
1
NC
2
SCL
3
SDA
4
PGND
5
R_DRV
6
IR_DRV
7
G_DRV
14
NC
13
INT
12
GND
11
VDD
10
VLED+
9
VLED+
8
NC
MAX30101_adapter

HEXIWEAR

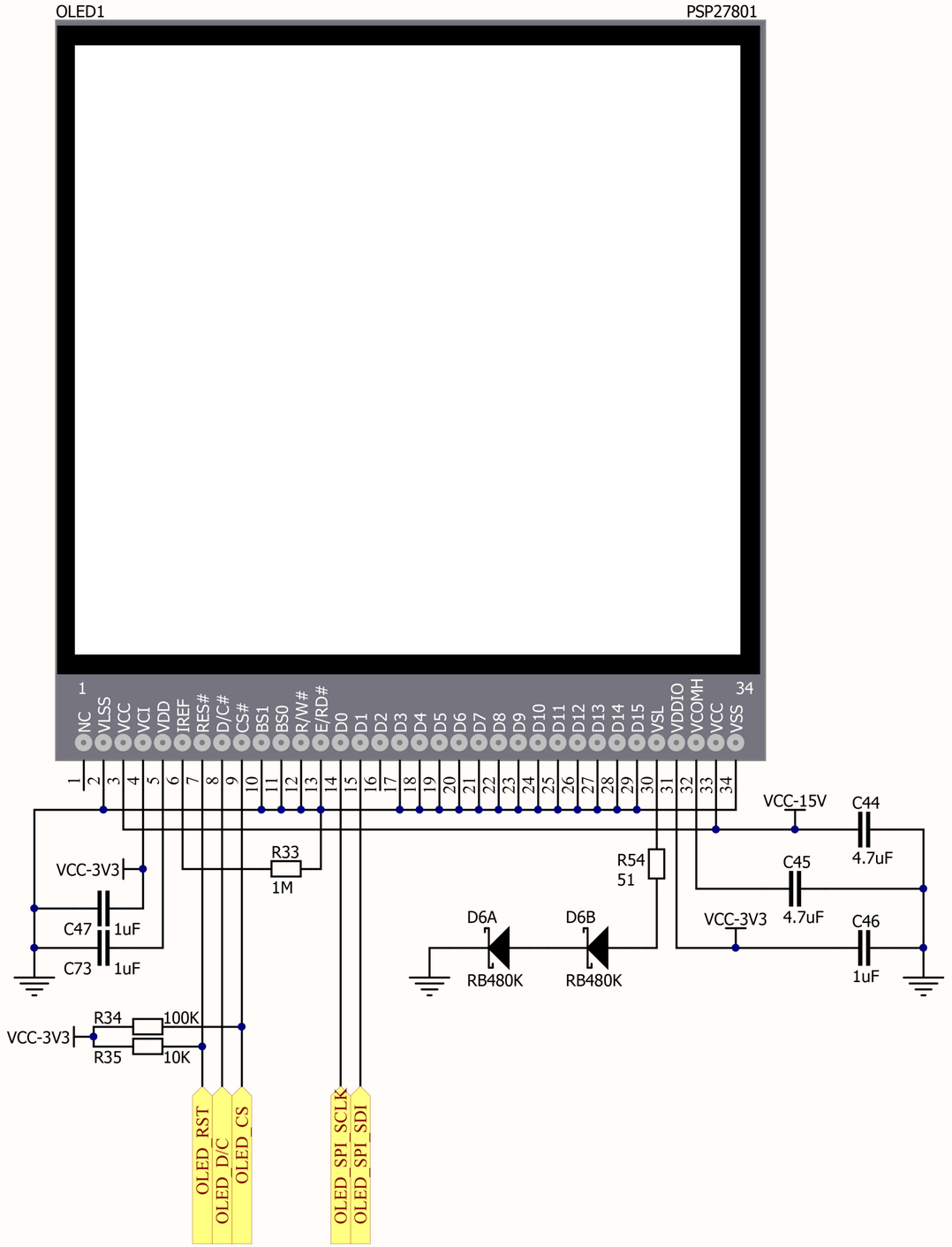


mikroe

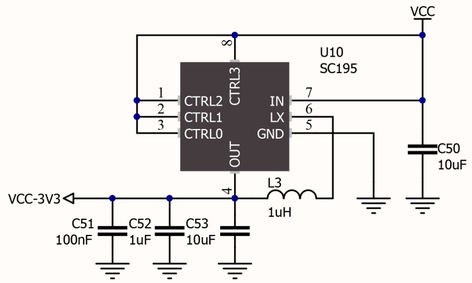
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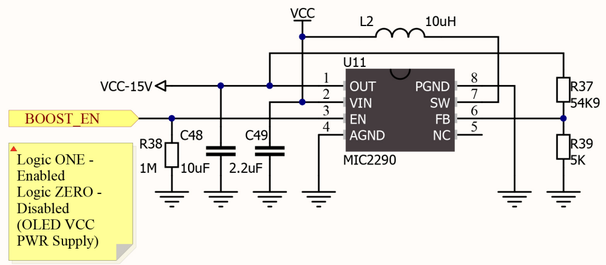

VCC-3V3B
C30
100nF
VCC-3V3B
U9
4
NC
NC
3
5
VDD
GND
2
6
SCK
SDA
1
Humidity_SCL
Humidity_SDA
HTU21D

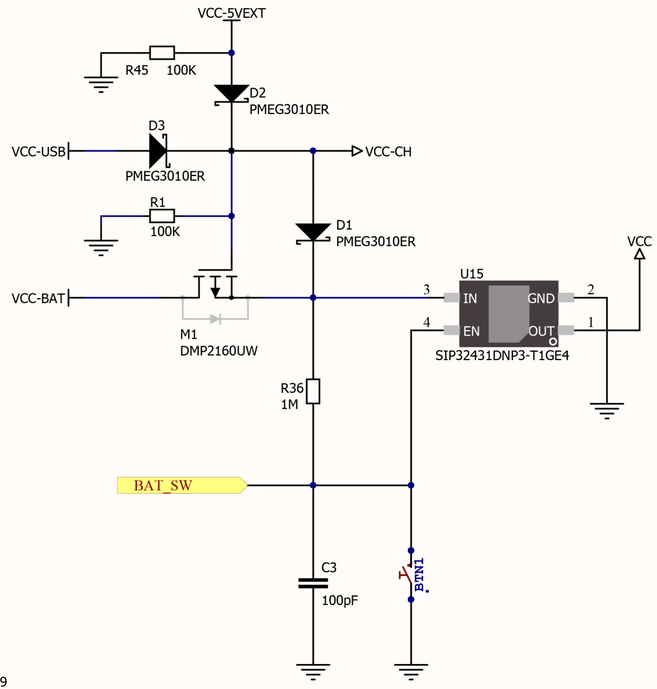
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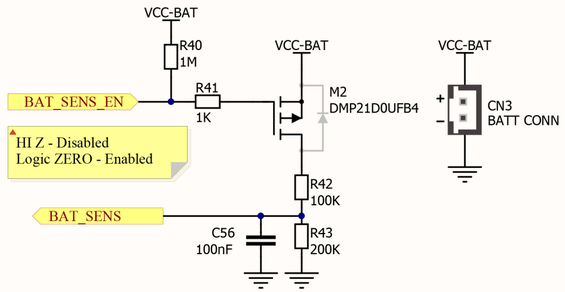

OLED1
PSP27801
1
NC
VLSS
VCC
VCI
VDD
IREF
RES#
D/C#
CS#
BS1
BS0
R/W#
E/RD#
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
VSL
VDDIO
VCOMH
VCC
VSS
34
VCC-3V3
C47
1uF
C73
1uF
R33
1M
R34
100K
R35
10K
OLED_RST
OLED_D/C
OLED_CS
OLED_SPI_SCLK
OLED_SPI_SDI
R54
51
D6A
D6B
RB480K
RB480K
VCC-15V
C44
4.7uF
C45
4.7uF
VCC-3V3
C46
1uF

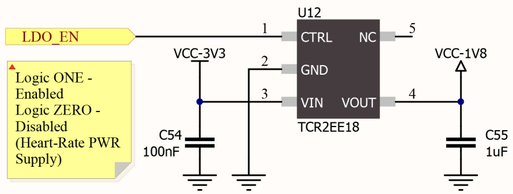
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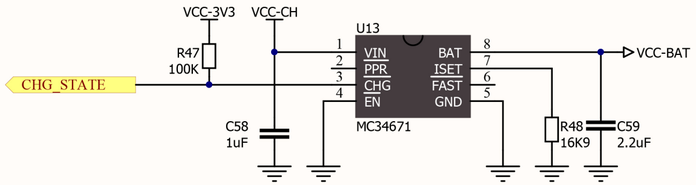

VCC
U10
SC195
CTRL3
CTRL2
CTRL1
CTRL0
IN
LX
GND
OUT
L3
1uH
VCC-3V3
C51
100nF
C52
1uF
C53
10uF
C50
10uF

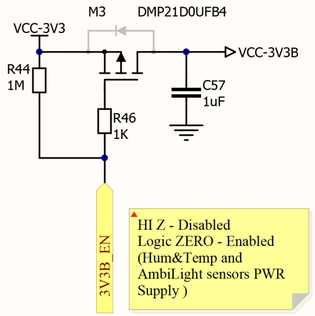

VCC
L2
10uH
U11
VCC-15V
BOOST_EN
OUT
VIN
EN
AGND
PGND
SW
FB
NC
MIC2290
R37
54K9
R38
1M
C48
10uF
C49
2.2uF
R39
5K
Logic ONE - Enabled
Logic ZERO - Disabled
(OLED VCC PWR Supply)

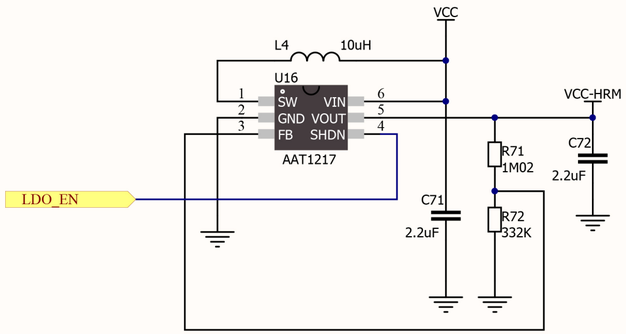

VCC-5VEXT
R45
100K
D2
PMEG3010ER
D3
VCC-USB
PMEG3010ER
VCC-CH
R1
100K
D1
PMEG3010ER
VCC-BAT
M1
DMP2160UW
U15
IN
EN
GND
OUT
SIP32431DNP3-T1GE4
VCC
R36
1M
BAT_SW
C3
100pF
BTN1


VCC-BAT
R40
1M
VCC-BAT
VCC-BAT
BAT_SENS_EN
R41
1K
M2
DMP21D0UFB4
CN3
BATT CONN
HI Z - Disabled
Logic ZERO - Enabled
R42
100K
BAT_SENS
C56
100nF
R43
200K

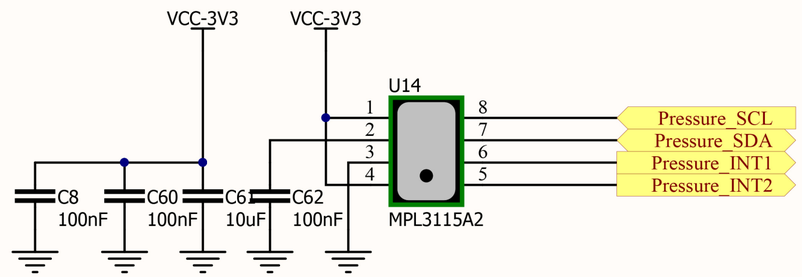

LDO_EN
U12
CTRL
GND
VIN
NC
VOUT
TCR2EE18
VCC-3V3
VCC-1V8
C54
100nF
C55
1uF
Logic ONE - Enabled
Logic ZERO - Disabled
(Heart-Rate PWR Supply)


VCC-3V3
VCC-CH
U13
R47
100K
CHG_STATE
VIN
PPR
CHG
EN
BAT
ISET
FAST
GND
VCC-BAT
MC34671
C58
1uF
R48
16K9
C59
2.2uF

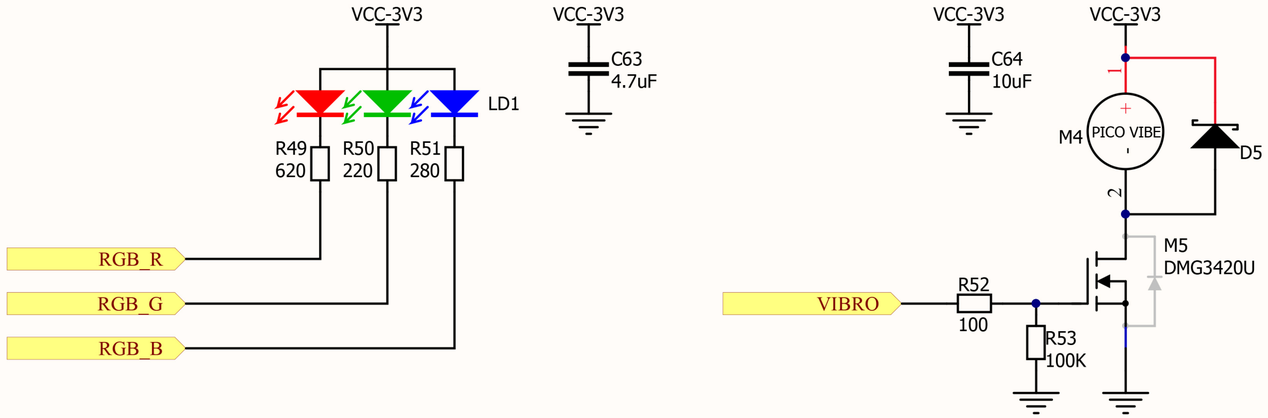

M3
DMP21D0UFB4
VCC-3V3
VCC-3V3B
R44
1M
R46
1K
C57
1uF
3V3B_EN
HI Z - Disabled
Logic ZERO - Enabled
(Hum&Temp and AmbiLight sensors PWR Supply)


VCC
L4
10uH
U16
SW
GND
FB
VIN
VOUT
SHDN
AAT1217
VCC-HRM
LDO_EN
C71
2.2uF
R71
1M02
R72
332K
C72
2.2uF

HEXIWEAR


VCC-3V3
VCC-3V3
U14
1
2
3
4
8
7
6
5
Pressure_SCL
Pressure_SDA
Pressure_INT1
Pressure_INT2
C8
100nF
C60
100nF
C61
10uF
C62
100nF
MPL3115A2

HEXIWEAR


VCC-3V3
VCC-3V3
C63
4.7uF
LD1
R49
620
R50
220
R51
280
RGB_R
RGB_G
RGB_B
VCC-3V3
VCC-3V3
C64
10uF
M4
PICO VIBE
D5
M5
DMG3420U
VIBRO
R52
100
R53
100K