

[illegible]

Power Supply

The Power Supply schematic shows the connection of VUSB and VBATT to the system. VUSB is connected to the VIN of the AP2112K-3.3 regulator through a 4.7k resistor (R31) and a 2.2uF capacitor (C45). VBATT is connected to the VOUT of the AP2112K-3.3 regulator through a 2.2k resistor (R32) and a 2.2uF capacitor (C46). The AP2112K-3.3 regulator is powered by a 3V3 battery (BAT_POWER) through a 100k resistor (R34). The output of the regulator is connected to the VS pin of the JST_2mm_LiPo connector (J5) through a 1uF capacitor (C11). The J5 connector is also connected to the PWR_ON pin of the system.

Charge current:
 $L_{CHG} = 1000 / R_{PROG}$
 $R_{PROG} = 2.2k$
 $L_{CHG} = 455mA$

IO Connector/Switch

The IO Connector/Switch schematic shows the connection of the J3 and J6 connectors to the system. J3 is connected to the SCL, SDA, VCC, and GND pins of the Qwicc2 connector. J6 is connected to the SCL, SDA, VCC, and GND pins of the Qwicc2 connector. The J3 connector is also connected to the PWR_ON pin of the system. The J6 connector is connected to the CHIP_PU pin of the system.

The schematic also shows the connection of the SW1 and SW2 switches to the system. SW1 is connected to the PWR_ON pin of the system. SW2 is connected to the CHIP_PU pin of the system.

Fuel_gauge

Fuel_gauge

VBATT

GND

VBATT

U1 MAX17048

3.3V

10k

SDA

SCL

QSTRT

CTG

ALRT

GND

GND

+3V3

R35 10k

FUEL_GAUGE_ALARM

I2C Address: 0x36

afe

File: afe.kicad_sch

OSHWA

CERT-SMALL

PROTOCOLCENTRAL

Sheet: /

File: pc_sensything_ox.kicad_sch

Title:

Size: User	Date:	Rev:
KiCad E.D.A. 9.0.0		Id: 1/2

Fuel_gauge

VBATT

GND

VBATT

U1 MAX17048

3.3V

10k

SDA

SCL

QSTRT

CTG

ALRT

GND

GND

+3V3

R35 10k

FUEL_GAUGE_ALARM

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VBATT

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R35 10k

FUEL_GAUGE_ALARM

I2C Address: 0x36

afe

File: afe.kicad_sch

OSHWA

CERT-SMALL

PROTOCOLCENTRAL

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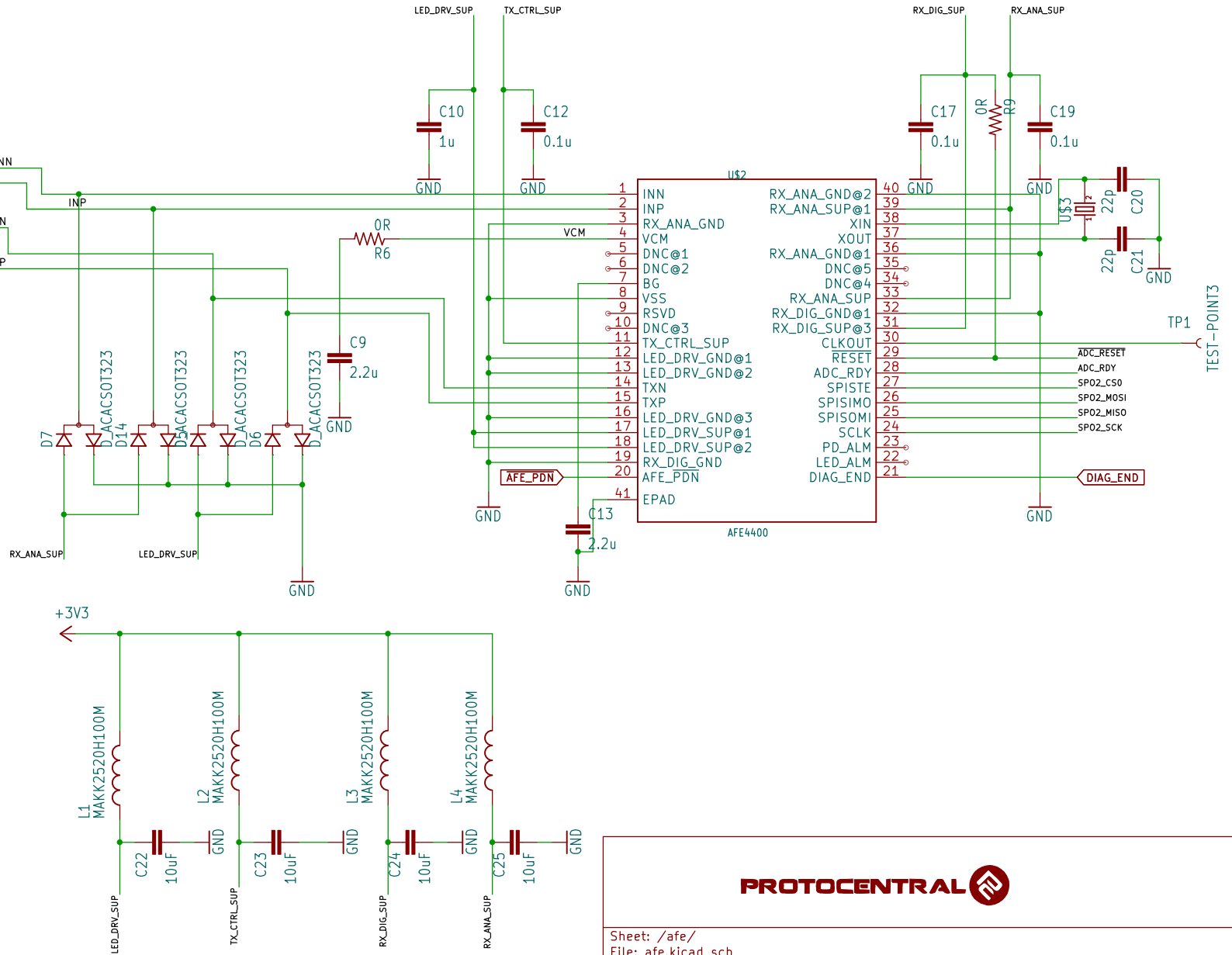
File: pc_sensything_ox.kicad_sch

Title:

Size: User	Date:	Rev:
KiCad E.D.A. 9.0.0		Id: 1/2

AFE

Value: DE9_Socket_MountingHoles
Reference: J1



Sheet: /afe/
File: afe.kicad_sch

Title: AFE

Size: A4

Date:

KiCad E.D.A. 9.0.0

Rev:

Id: 2/2