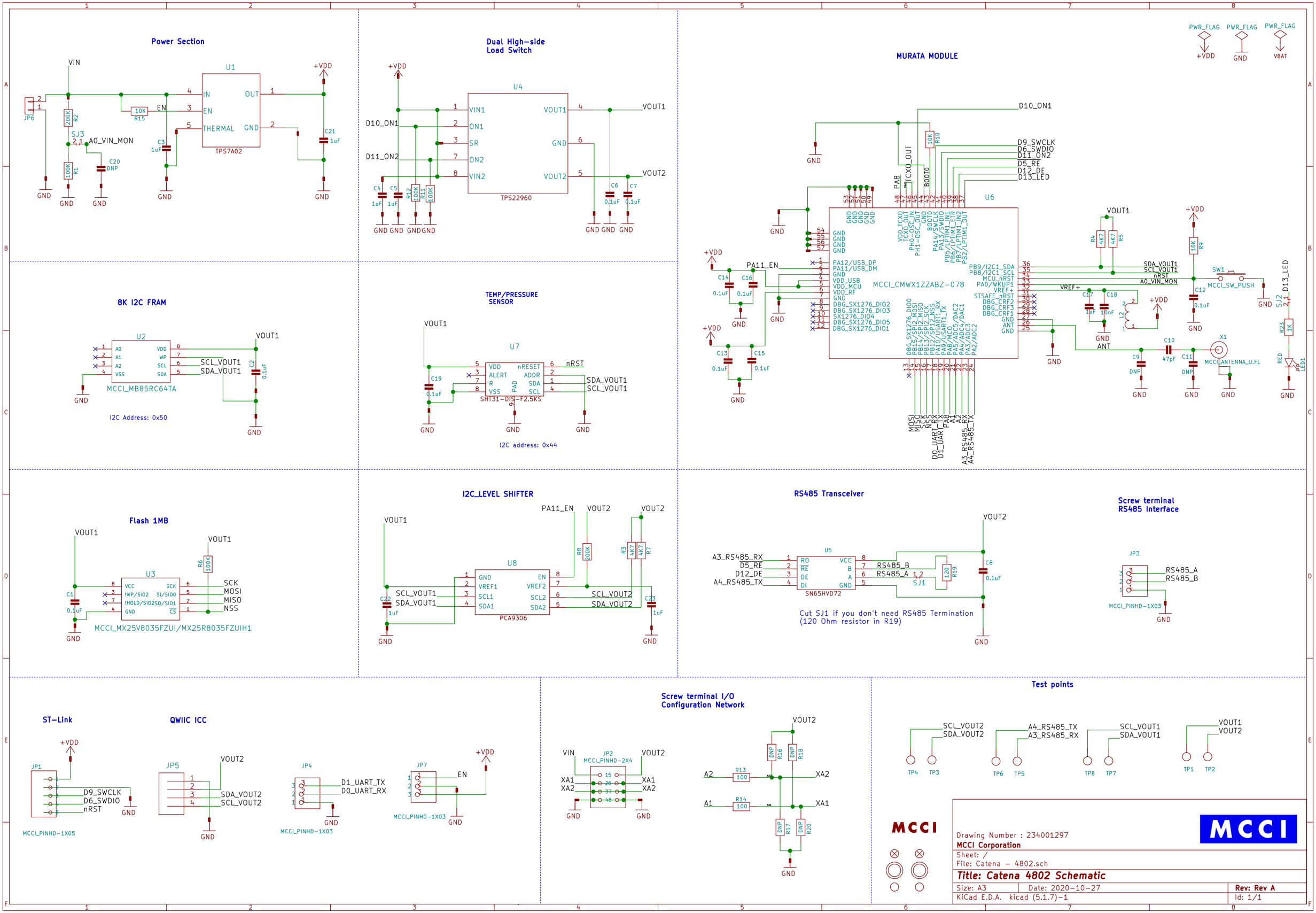
Power Section
VIN
U1
TPS7A02
IN
EN
THERMAL
OUT
GND
+VDD
JP6
R2 200K
R1 100K
SJ3
A0_VIN_MON
C20 DNP
R15 10K
C3 1uF
C21 1uF
Dual High-side Load Switch
U4
TPS22960
VIN1
ON1
SR
ON2
VIN2
VOUT1
GND
VOUT2
D10_ON1
D11_ON2
C4 1uF
C5 1uF
R12 100K
R11 100K
C6 0.1uF
C7 0.1uF
MURATA MODULE
PWR_FLAG
+VDD
GND
VBAT
D10_ON1
D9_SWCLK
D6_SWDIO
D11_ON2
D5_RE
D12_DE
D13_LED
R10 10K
PA8
TCXO_OUT
BOOT0
U6
MCCI_CMWX1ZZABZ-078
PA11_EN
C14 0.1uF
C16 0.1uF
C13 0.1uF
C15 0.1uF
R4 4K7
R5 4K7
SDA_VOUT1
SCL_VOUT1
nRST
A0_VIN_MON
VREF+
C17 1uF
C18 10nF
L2
ANT
R9 10K
SW1
MCCI_SW_PUSH
C12 0.1uF
C9 DNP
C10 47pF
C11 DNP
X1
MCCI_ANTENNA_U.FL
SJ2
R23 1K
LED1
RED
8K I2C FRAM
U2
MCCI_MB85RC64TA
A0
A1
A2
VSS
VDD
WP
SCL
SDA
SCL_VOUT1
SDA_VOUT1
C2 0.1uF
I2C Address: 0x50
TEMP/PRESSURE SENSOR
U7
SHT31-DIS-F2.5KS
VDD
ALERT
R
VSS
nRESET
ADDR
SDA
SCL
PAD
C19 0.1uF
I2C address: 0x44
Flash 1MB
U3
MCCI_MX25V8035FZUI/MX25R8035FZUIH1
VCC
!WP/SIO2
!HOLD/SIO2
GND
SCK
SI/SIO0
SO/SIO1
!CS
R6 100K
C1 0.1uF
SCK
MOSI
MISO
NSS
I2C_LEVEL SHIFTER
U8
PCA9306
GND
VREF1
SCL1
SDA1
EN
VREF2
SCL2
SDA2
PA11_EN
R8 200K
R3 4K7
R7 4K7
C22 1uF
C23 1uF
RS485 Transceiver
U5
SN65HVD72
RO
RE
DE
DI
VCC
B
A
A3_RS485_RX
D5_RE
D12_DE
A4_RS485_TX
RS485_B
RS485_A
SJ1
R19 120
C8 0.1uF
Cut SJ1 if you don't need RS485 Termination
(120 Ohm resistor in R19)
Screw terminal RS485 Interface
JP3
MCCI_PINHD-1X03
RS485_A
RS485_B
ST-Link
JP1
MCCI_PINHD-1X05
D9_SWCLK
D6_SWDIO
nRST
QWIIC ICC
JP5
SDA_VOUT2
SCL_VOUT2
JP4
D1_UART_TX
D0_UART_RX
JP7
EN
Screw terminal I/O Configuration Network
JP2
MCCI_PINHD-2X4
VIN
XA1
XA2
A2
A1
R13 100
R14 100
DNP R16
DNP R18
DNP R17
DNP R20
Test points
SCL_VOUT2
SDA_VOUT2
A4_RS485_TX
A3_RS485_RX
SCL_VOUT1
SDA_VOUT1
VOUT1
VOUT2
TP4
TP3
TP6
TP5
TP8
TP7
TP1
TP2
MCCI
Drawing Number : 234001297
MCCI Corporation
Sheet: /
File: Catena - 4802.sch
Title: Catena 4802 Schematic
Size: A3
Date: 2020-10-27
Rev: Rev A
KiCad E.D.A. kicad (5.1.7)-1
Id: 1/1