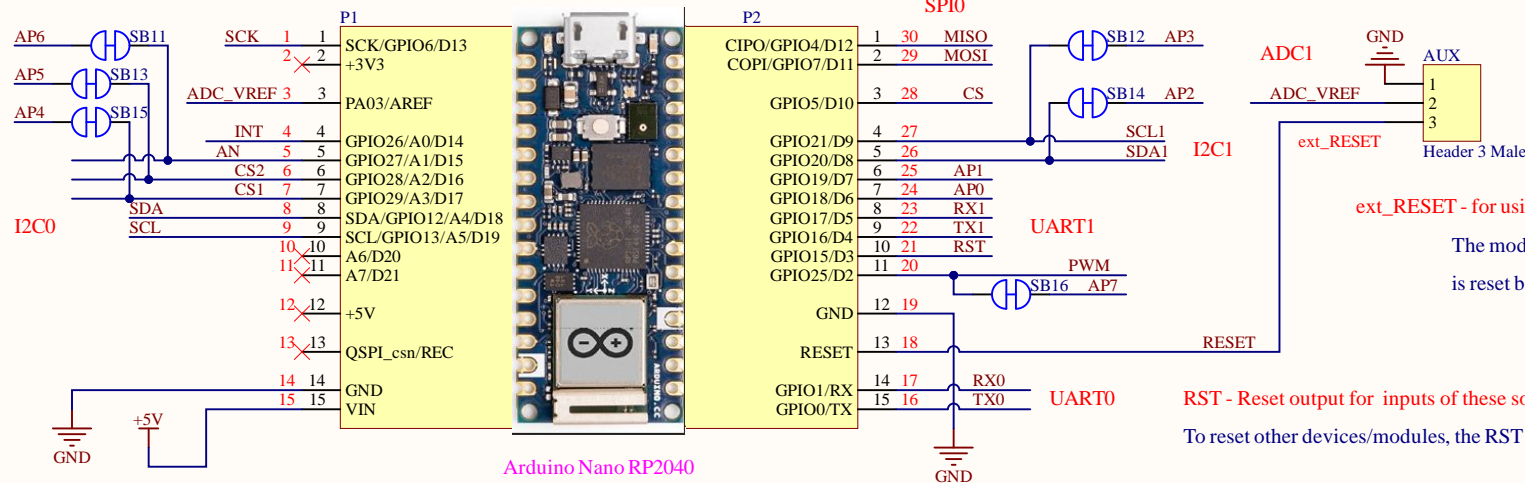


Arduino Nano RP2040

NANO



Arduino Nano RP2040

ext_RESET - for using external RESET by pressing the external RESET button (switch)

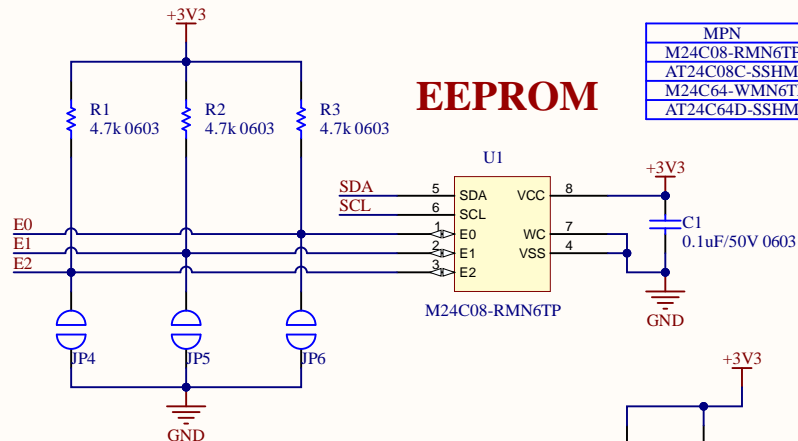
The module in the NANO slot (Arduino Nano RP2040 or other) is reset by pressing the internal or external RESET button or Watchdog.

RST - Reset output for inputs of these sockets: M1, M2, M3, BFF, HOST-S

To reset other devices/modules, the RST signal is used, which Arduino Nano RP2040 can generate in software.

EEPROM

MPN	Capacity	LCSC Part
M24C08-RMN6TP	8Kbit	C141777
AT24C08C-SSHMT	8Kbit	C31422
M24C64-WMN6TP	64Kbit	C7999
AT24C64D-SSHMT	64Kbit	C6487



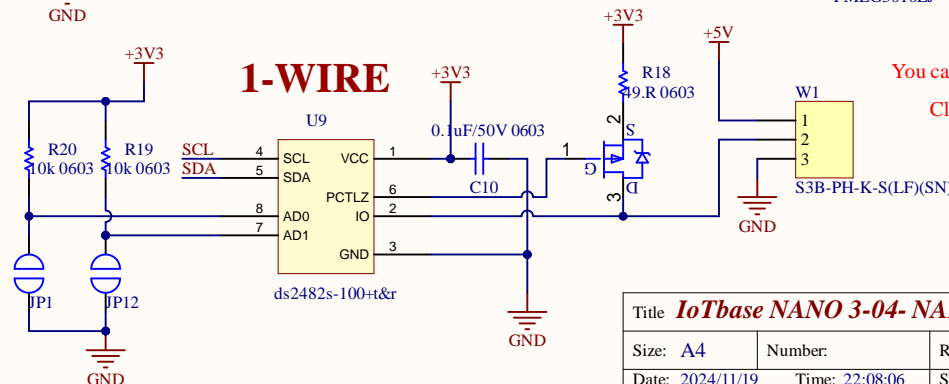
EEPROM I2C Address:

1 0 1 0 E2 E1 E0 x

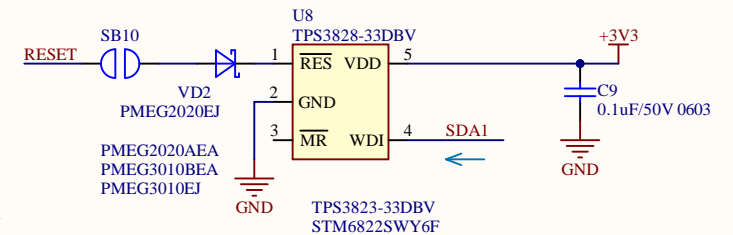
I2C Address Selector

ON - CLOSED - 0, OFF - OPENED - 1

1-WIRE



Watchdog IC: Open-drain (3828) or Active-Low (3823), Vth= 2.93V, Treset = 200 ms, Twd = 0.9 sec (min)



You can use Watchdog (U8) or I2C1 (SDA1) interface only

Close SB10 if you want to use Watchdog (U8)

Title **IoTbase NANO 3-04- NANO&EEPROM**

Size: **A4**

Number:

Revision:

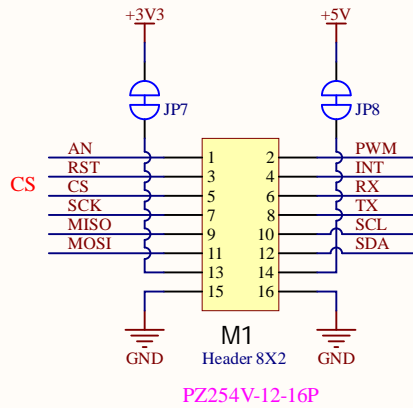
Date: 2024/11/19

Time: 22:08:06

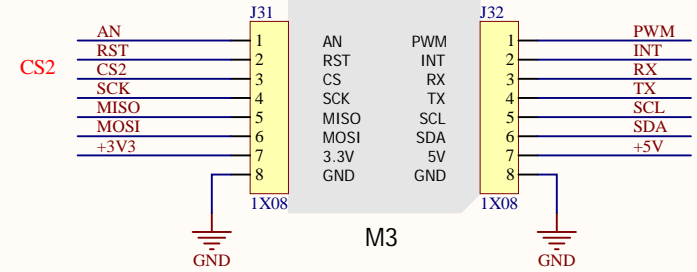
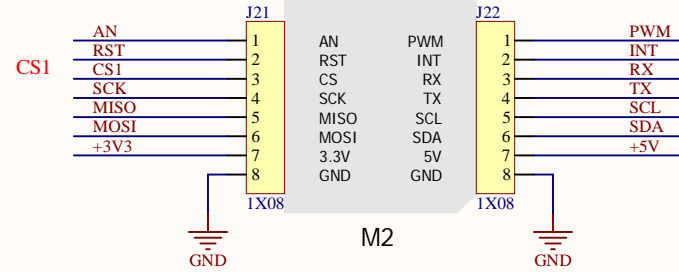
Sheet 1 of 4

File: E:\Upwork相关资料\project\Vladimir0924\IoTbase Nano 20241104\Design_file_IoTbase Nano 3-04\1. Nano&EEPROM

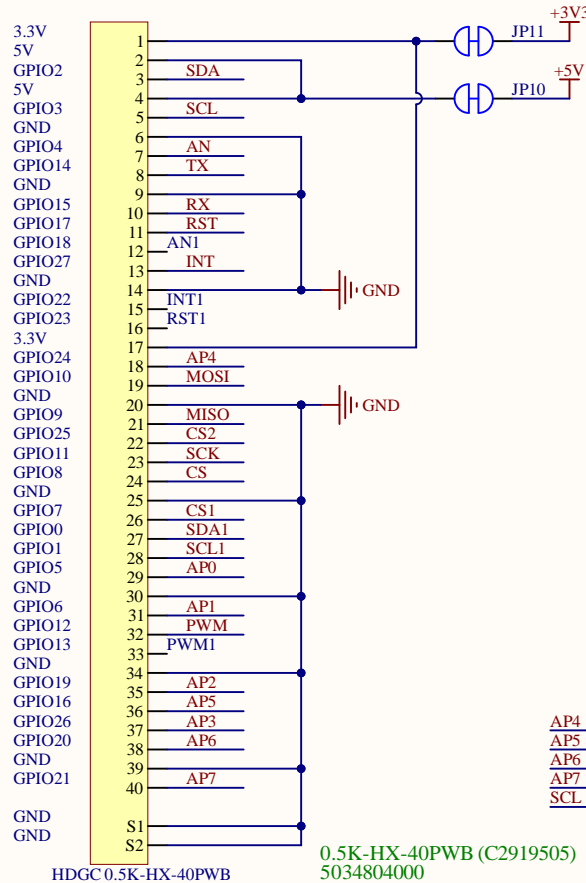
Altium



MICROBUS

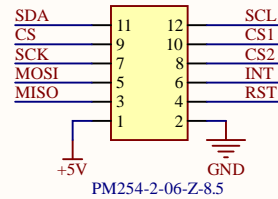


RPI40



CONNECTORS

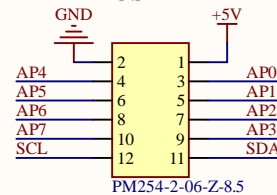
HOST-S12



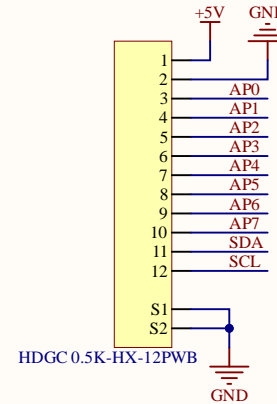
PM254-2-06-Z-8.5 (C2897407)

PM254V-12-12P-H85 (C541855)

HOST-P12

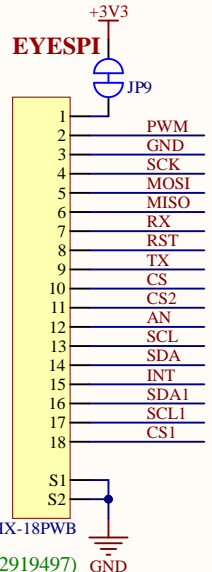


HOST-PF



5034801200 (C587969)
0.5K-HX-12PWB (C2919494)

EYESPI



FFC/FPC Cable for BFF
JS05B-18P-150-4-8
LCSC part #C2857715

0.5K-HX-18PWB (C2919497)
5034801800 (C2858322)

Title **IoTbase NANO 3-04 - Microbus&Connectors**

Size: **A4**

Number:

Revision:

Date: 2024/11/19

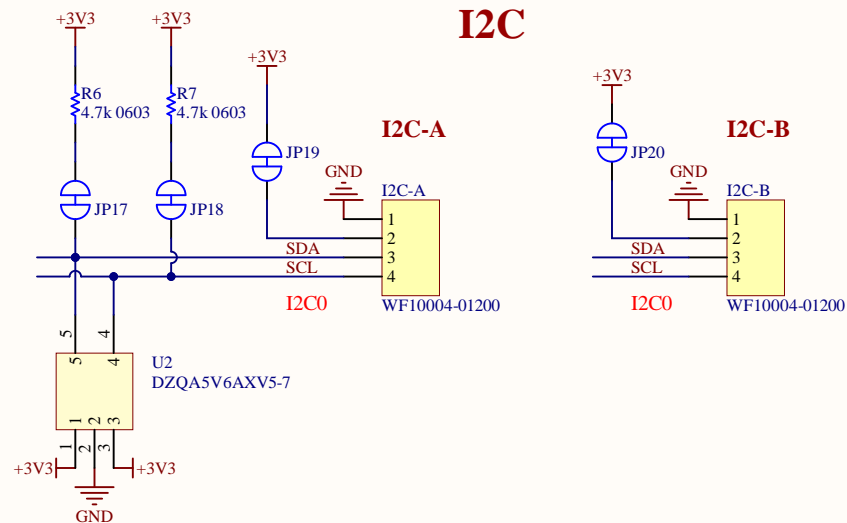
Time: 22:08:07

Sheet2 of 4

File: E:\Upwork相关资料\project\Vladimir0924\IoTbase Nano 20241104\Design_file_IoTbase Nano 3-04\2. MICROBUS&Co



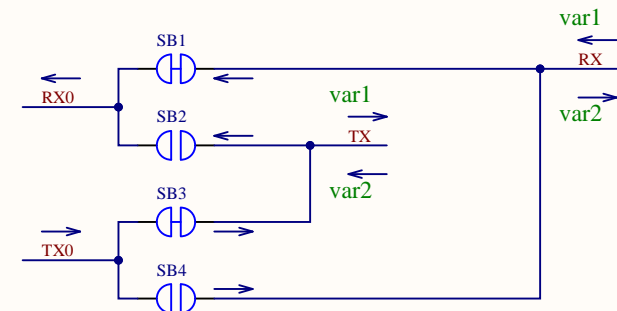
I2C



RX0-NANO input

UART

TX0-NANO input

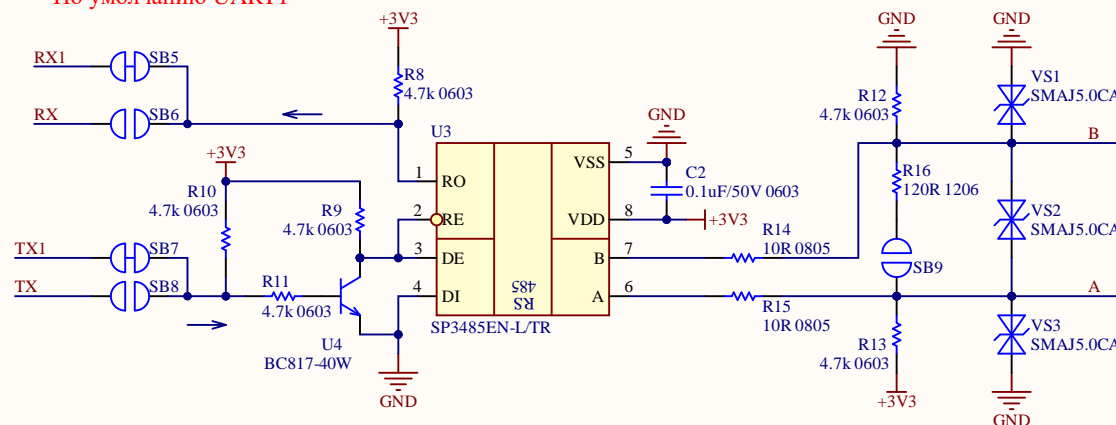


var1-(default) - SB1 and SB3 closed, TX - mezzanine input, RX - mezzanine output

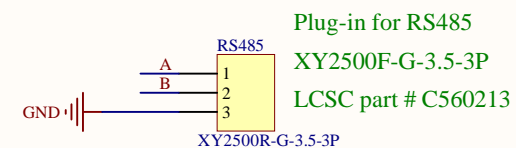
var2- SB2 and SB4 closed, TX - mezzanine output, RX - mezzanine input

RS485

По умолчанию UART1



SMAJ5.0CA

Title **IoTbase NANO 3-04 - I2C&UART&RS485**Size: **A4**

Number:

Revision:

Date: 2024/11/19

Time: 22:08:07

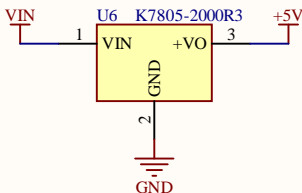
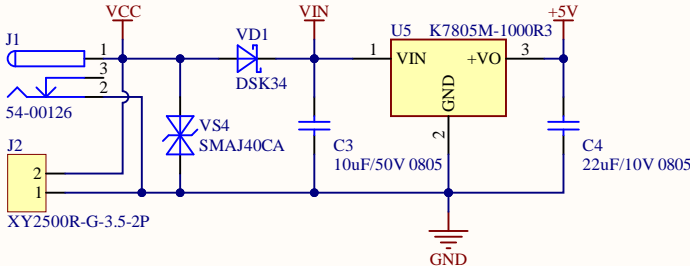
Sheet3 of 4

File: E:\Upwork相关资料\project\Vladimir0924\IoTbase Nano 20241104\Design_file_IoTbase Nano 3-04\3. I2C&UART&RS485

Altium

+5V Power Supply

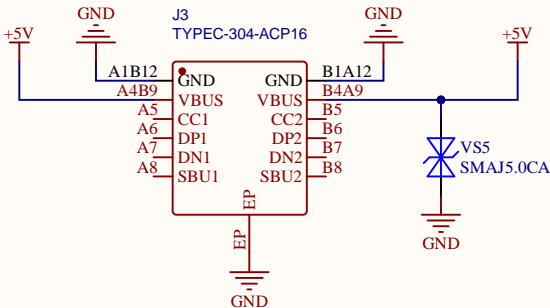
9...36VDC
Plug-in for J2
XY2500F-G-3.5-2P
LCSC part # C560212



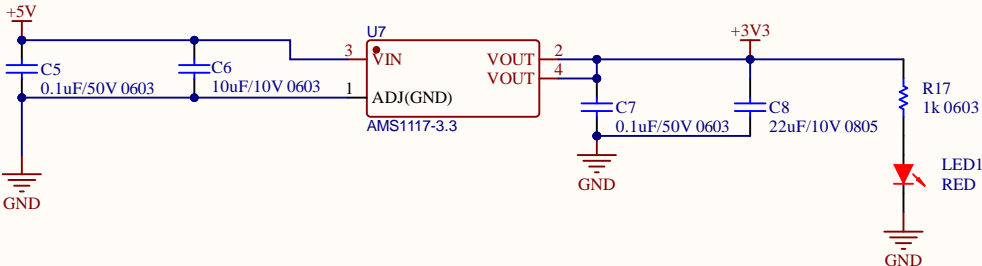
USUALLY
1A - U5
2A - U6
3A - U5

DC - DC

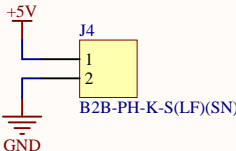
- 5W
- 10W
- 15W



+3.3V Power Supply



Power Connector



Title **IoTbase NANO 3-04- Power**

Size: **A4**

Number:

Revision:

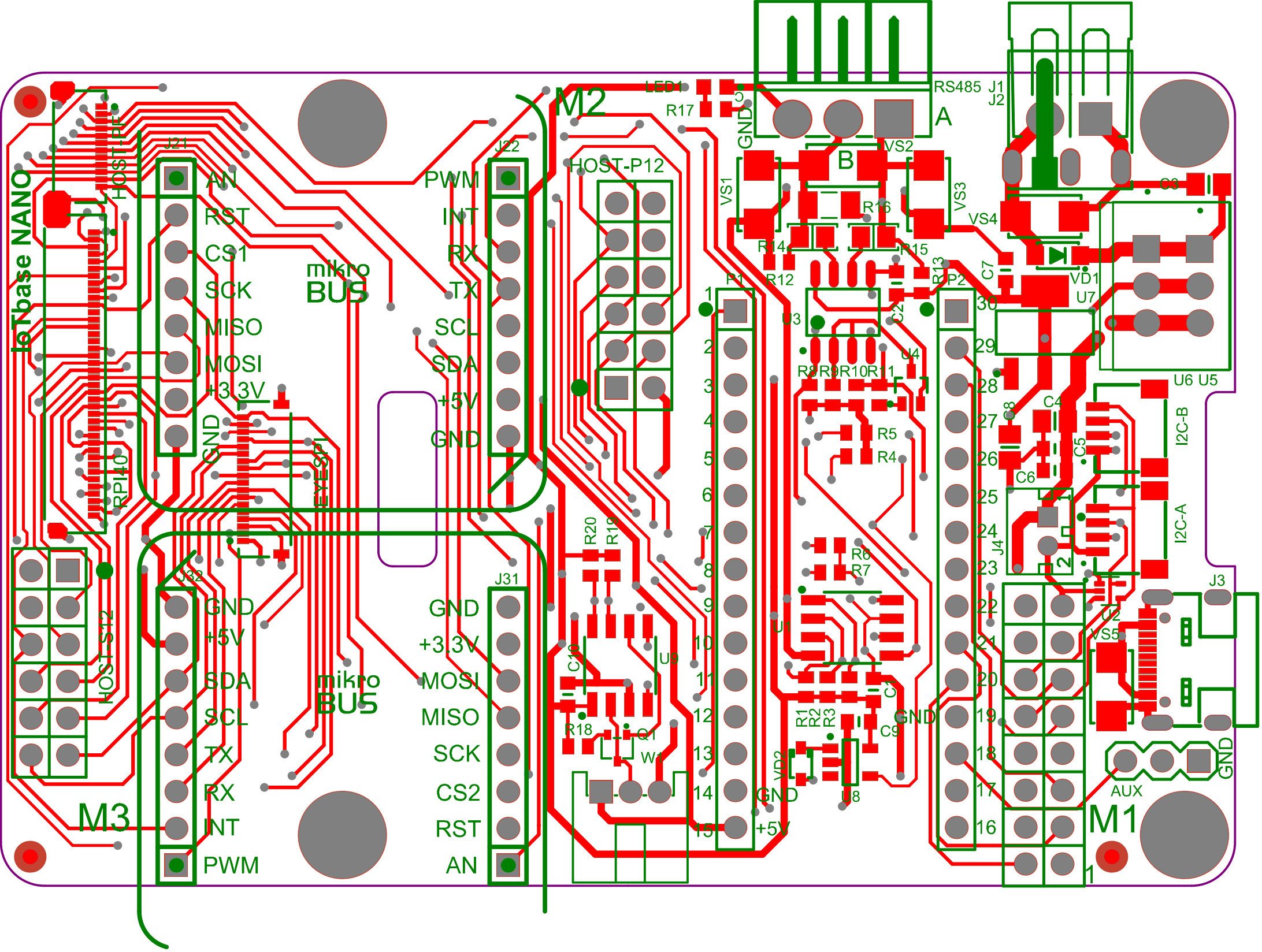
Date: 2024/11/19

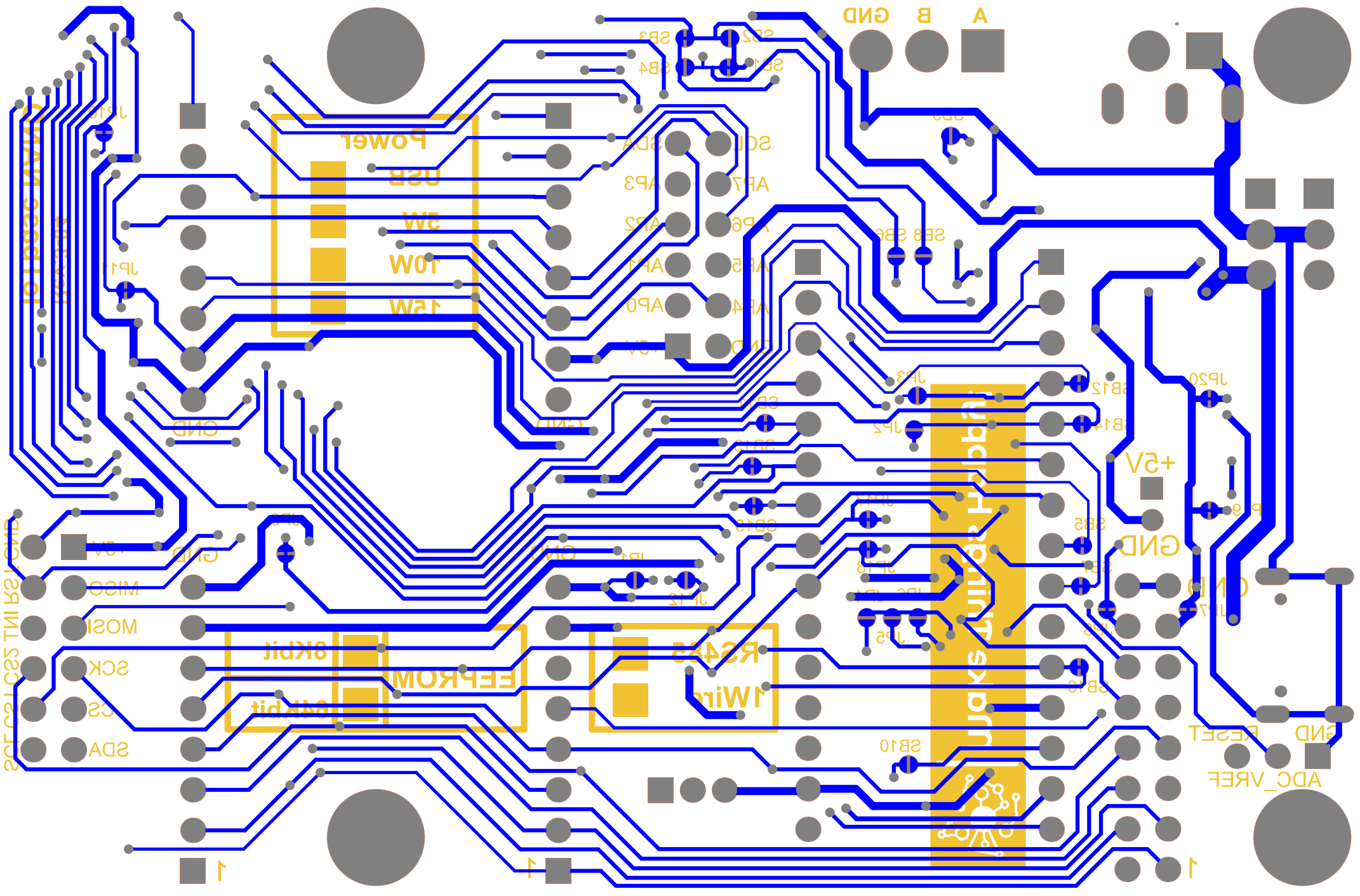
Time: 22:08:07

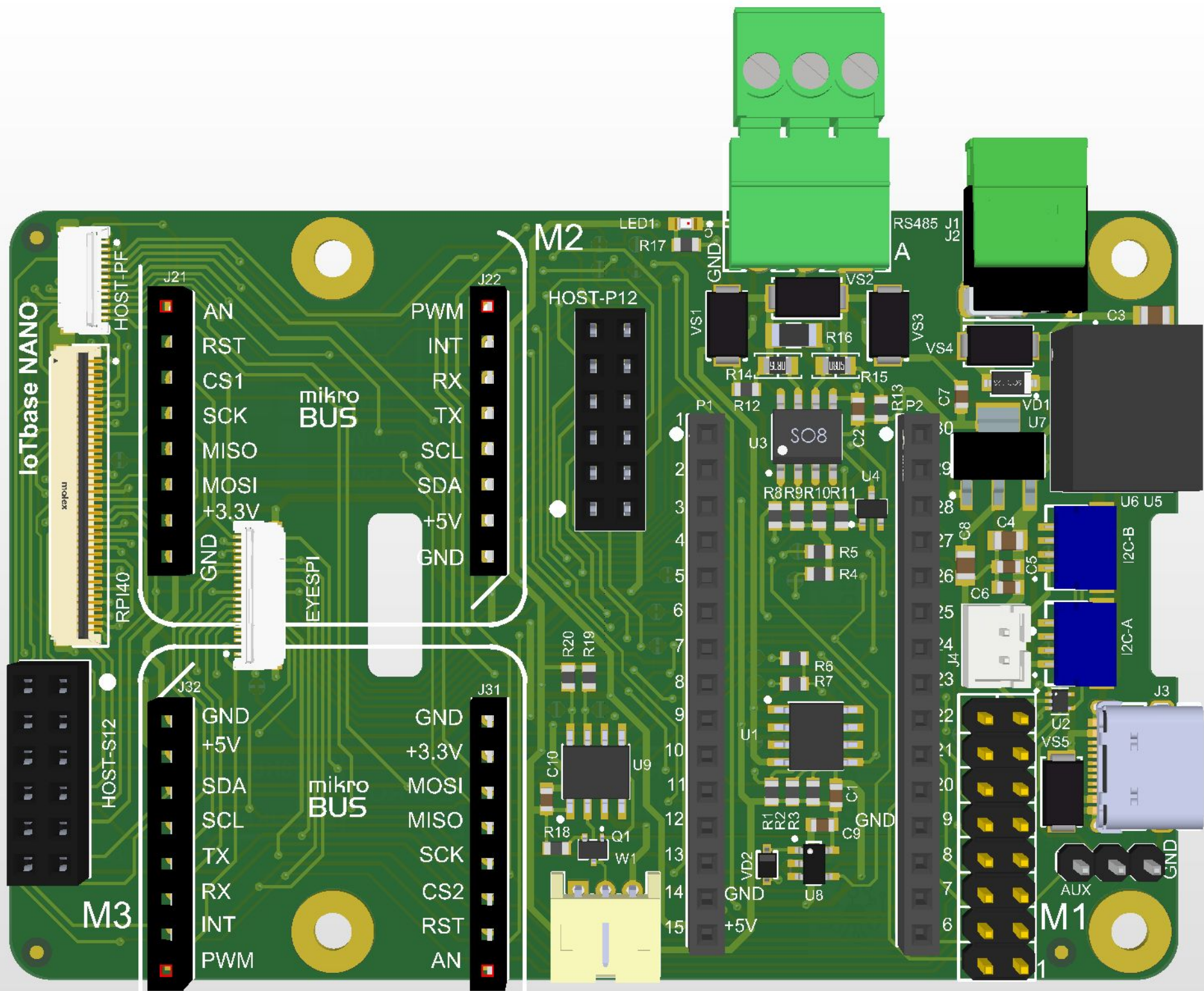
Sheet4 of 4

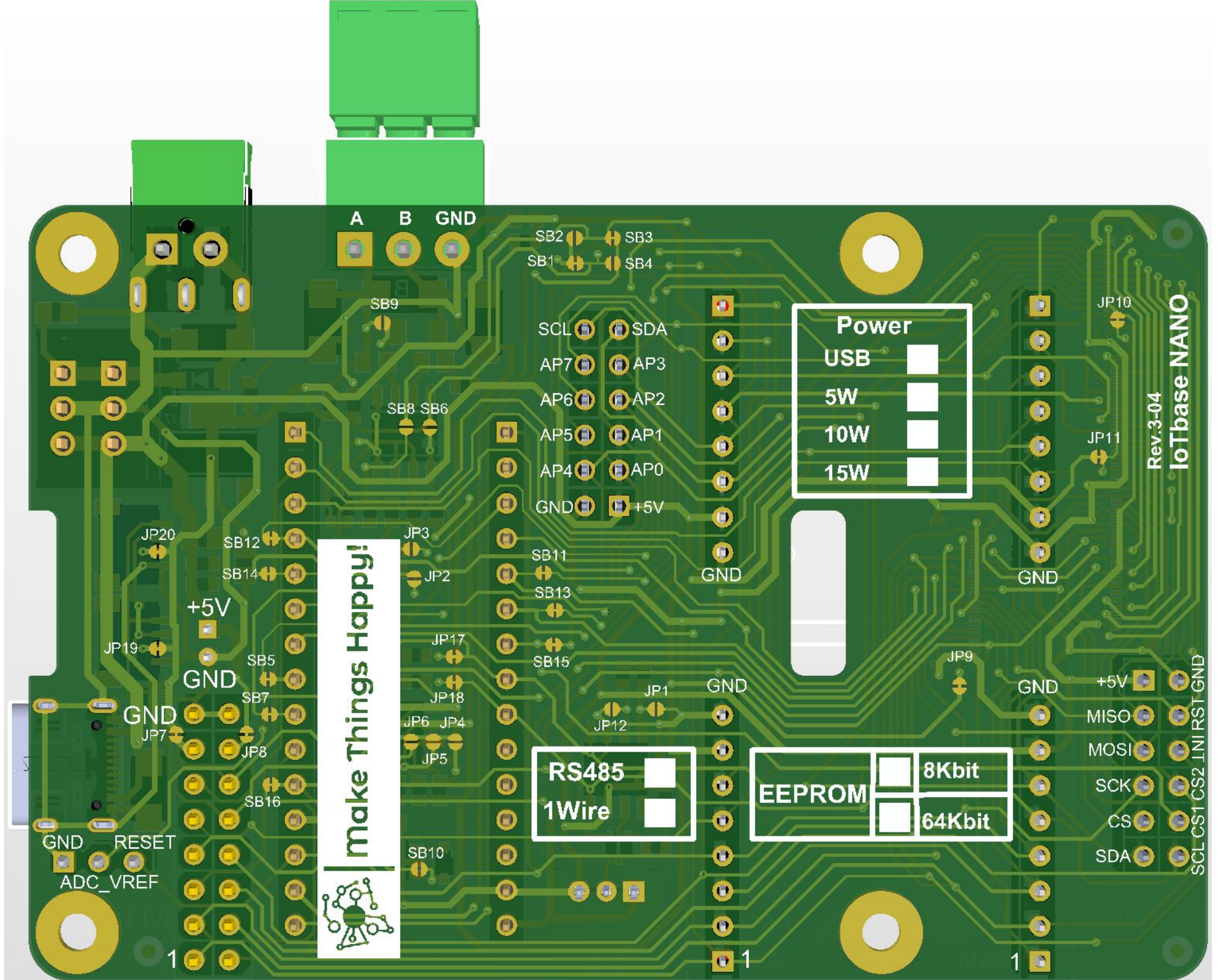
File: E:\Upwork相关资料\project\Vladimir0924\IoTbase Nano 20241104\Design_file_IoTbase Nano 3-04\4. Power Supply.Sch

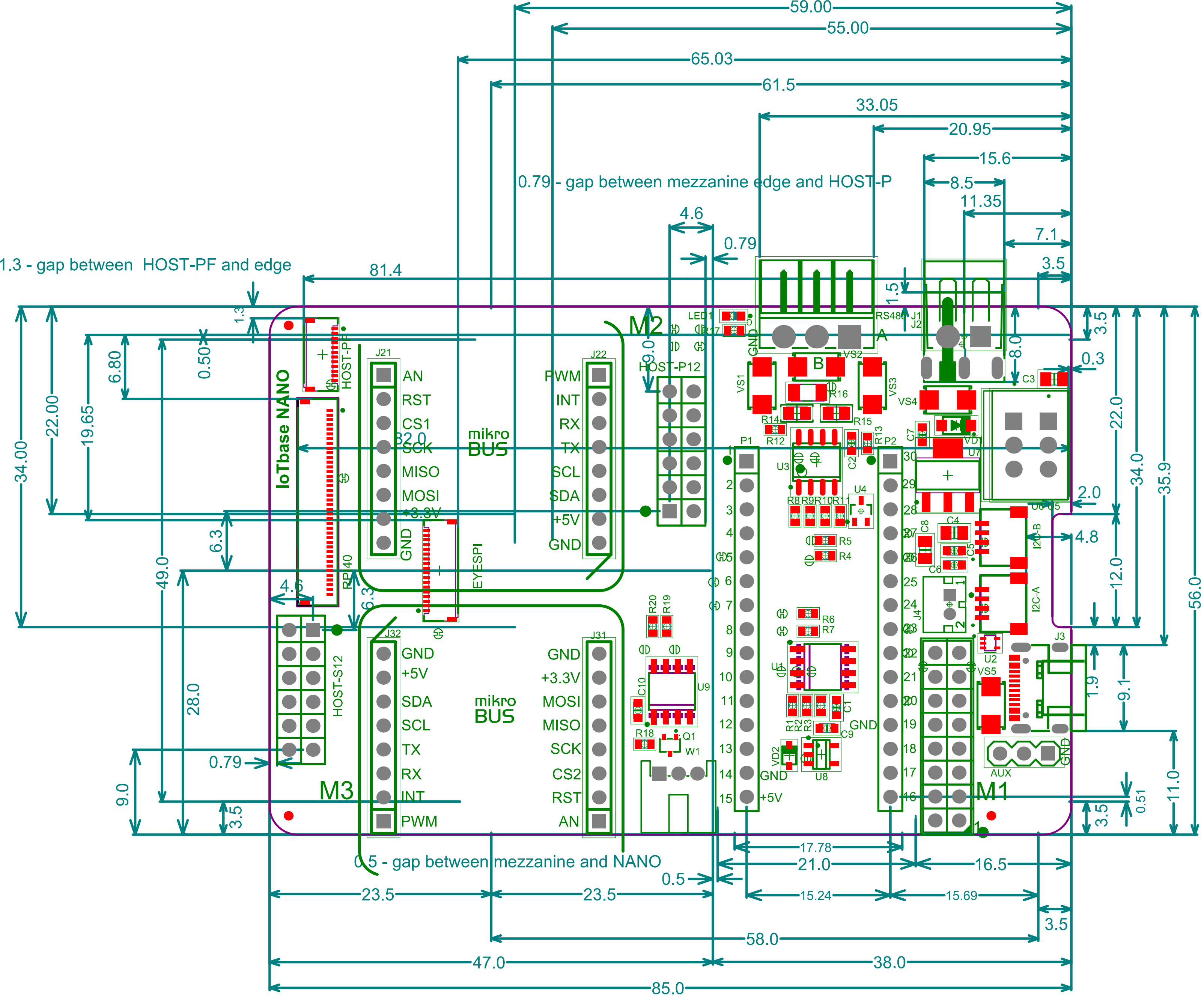


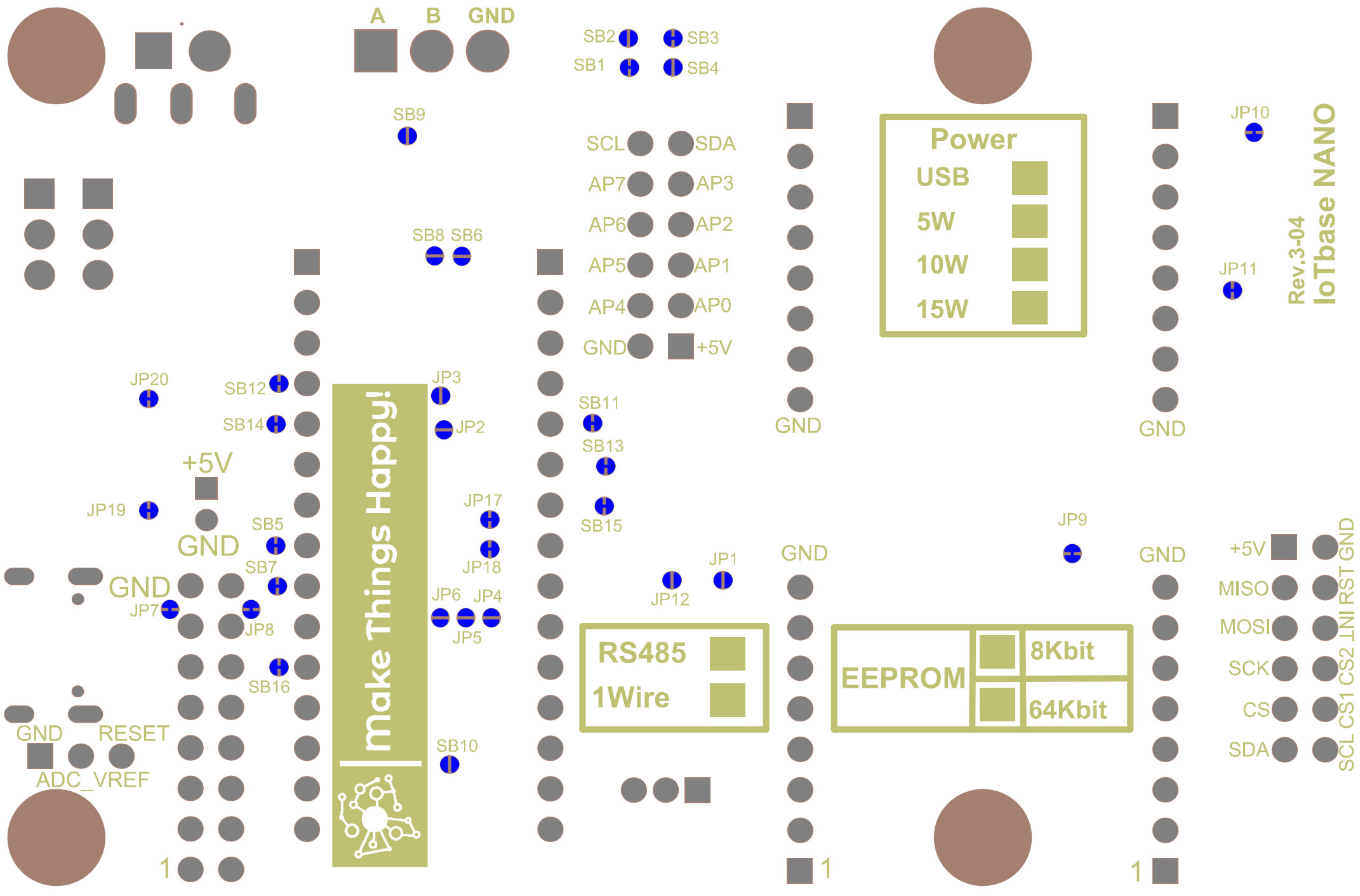












Make Things Happy!

Power

USB	
5W	
10W	
15W	

RS485

1Wire

EEPROM

	8Kbit
	64Kbit

Rev.3-04
IoTbase NANO



- +5V
- MISO
- MOSI
- SCK
- CS
- SDA
- GND
- CS1
- CS2
- IN
- RST
- GND