

Project Name <b>BluetoothGateway</b>		
Size <b>A3</b>	Revision V1.0.0	Checked By: •
Date: 3/10/2025	Last Modified: 2/12/2025	
Drawn By: Q.Thang & T.Khoa	Sheet 1 of 17	
File: Overview_Schematic.SchDoc		

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## Bluetooth Gateway Schematic V1.0.0

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BluetoothGateway



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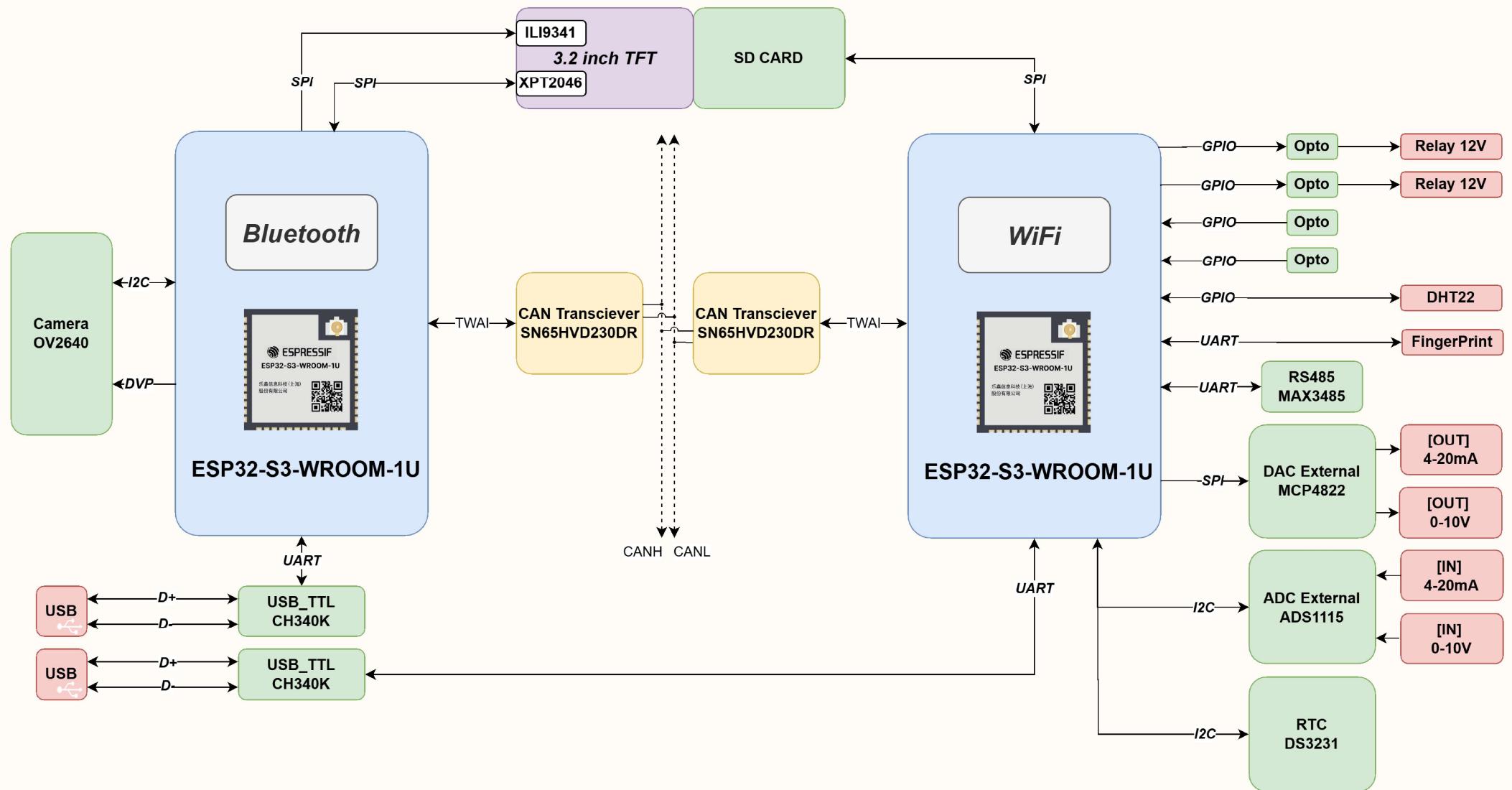
Date: 3/10/2025

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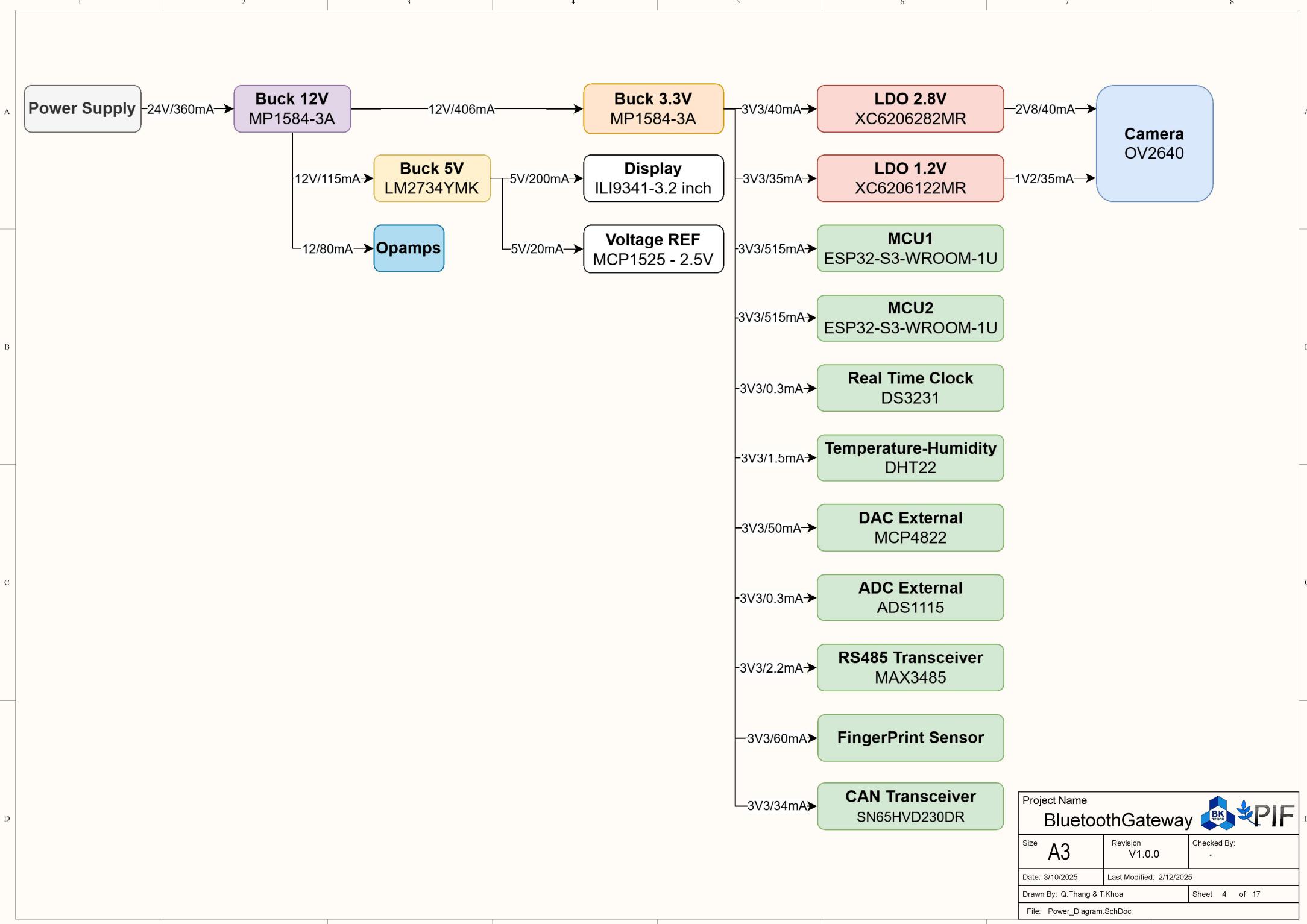
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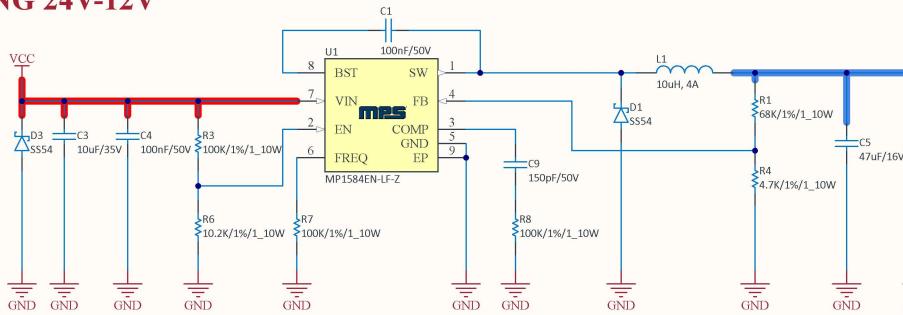
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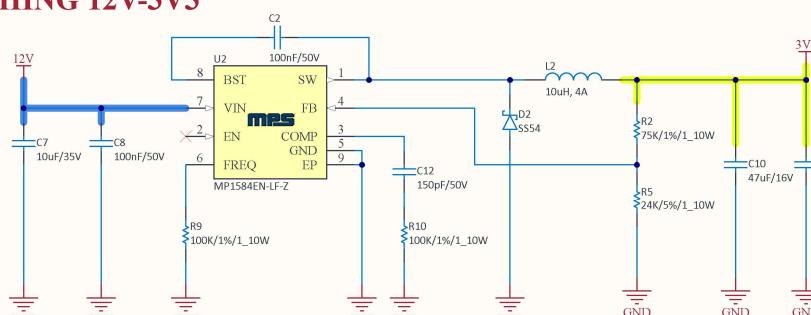
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File: Block_Diagram.SchDoc		



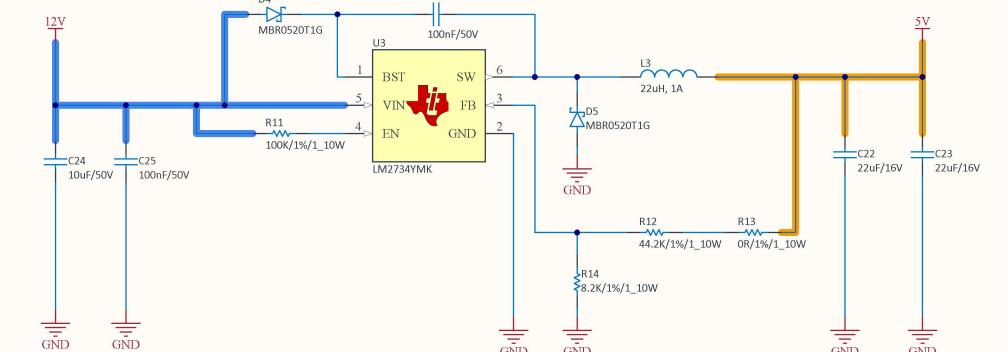
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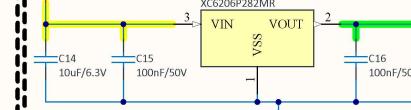
## SWITCHING 12V-3V3



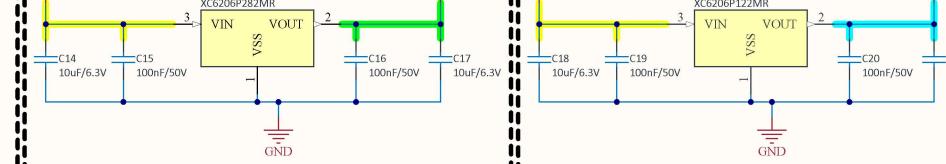
## SWITCHING 12V-5V



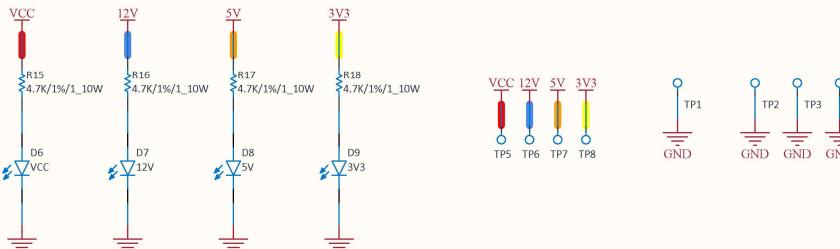
## LDO 3V3-2V8



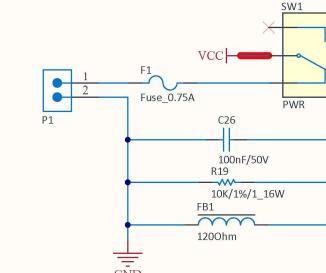
## LDO 3V3-1V2



## POWER: LED & TESTPOINT



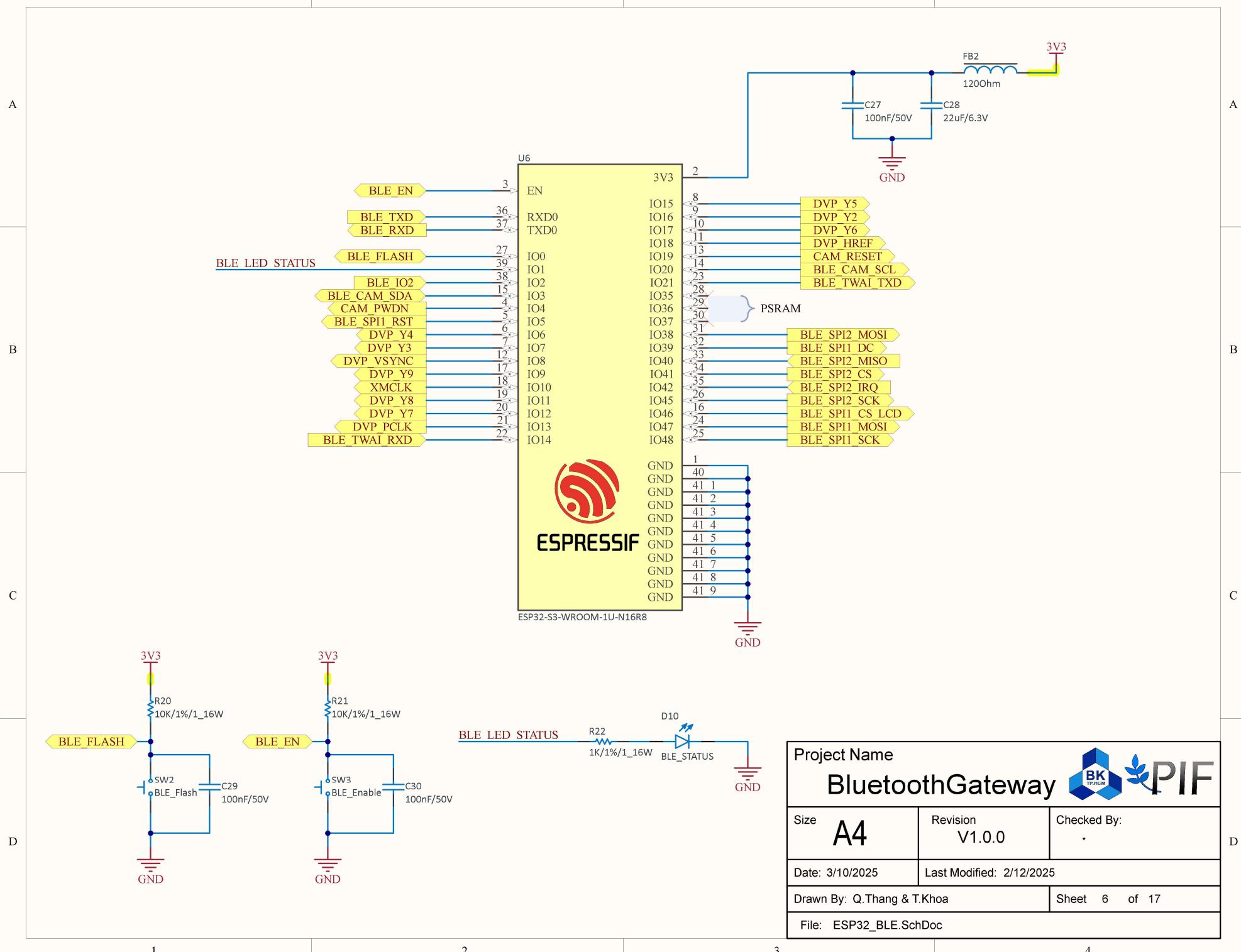
## SWITCH POWER



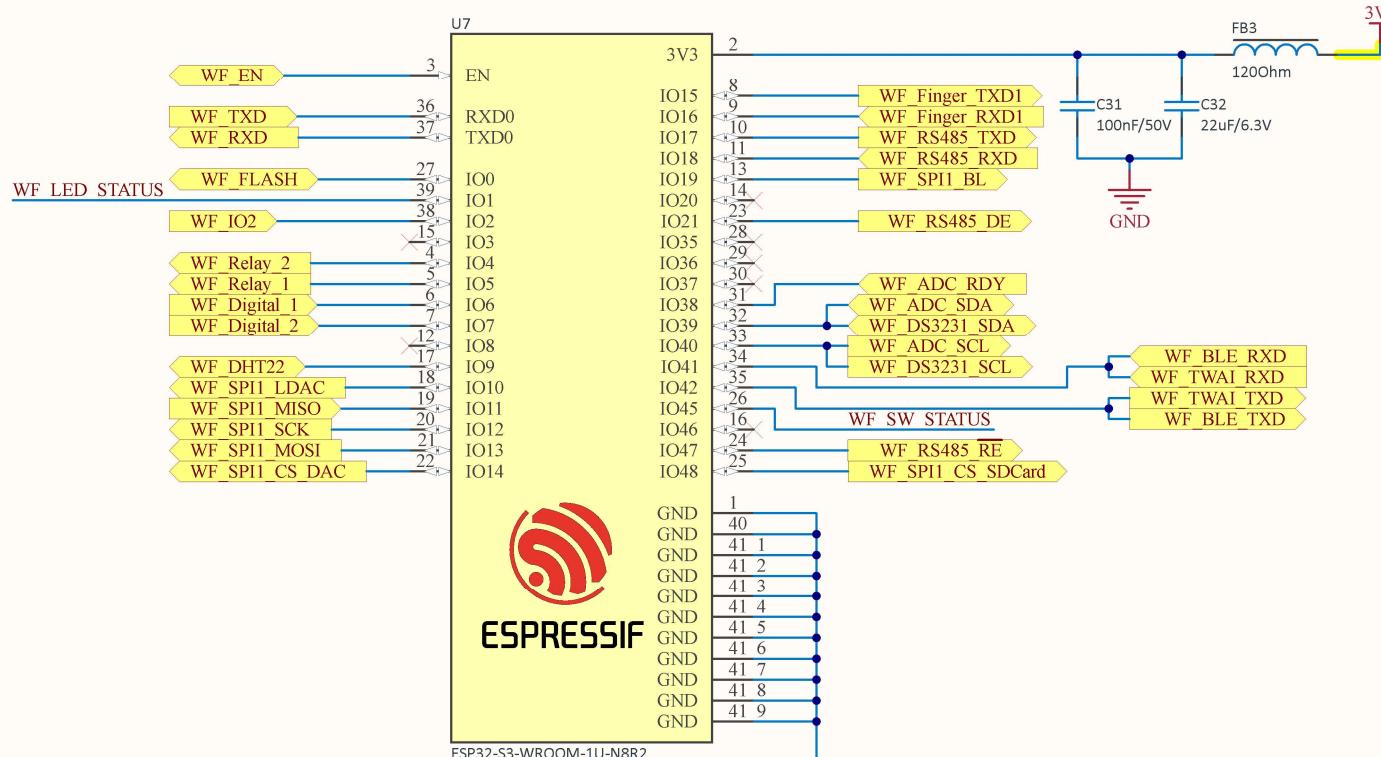
## OTHERS



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File: Power_Supply.SchDoc		



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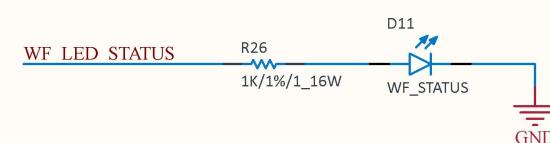
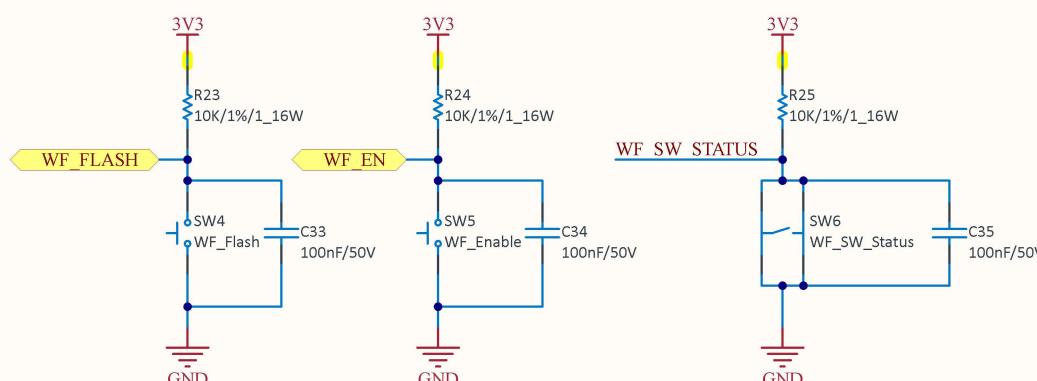
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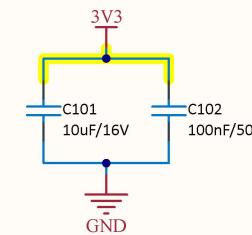
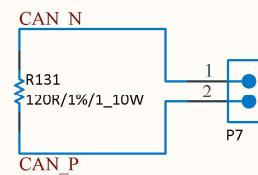
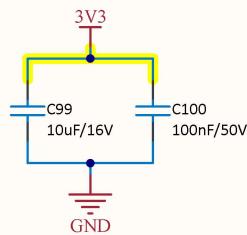
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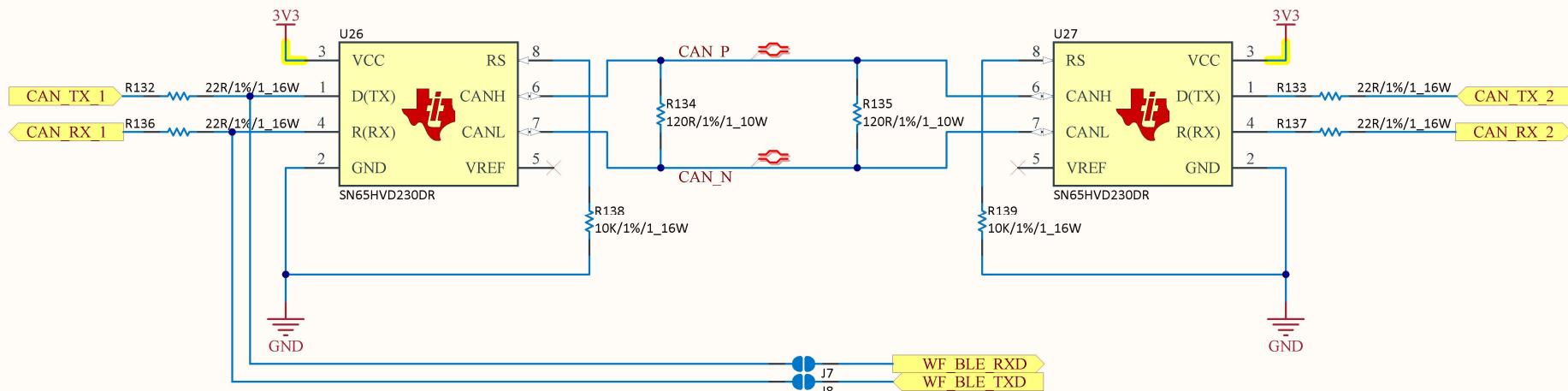
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File: ESP32\_WiFi.SchDoc

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File: Communication.SchDoc

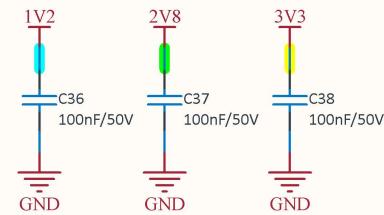
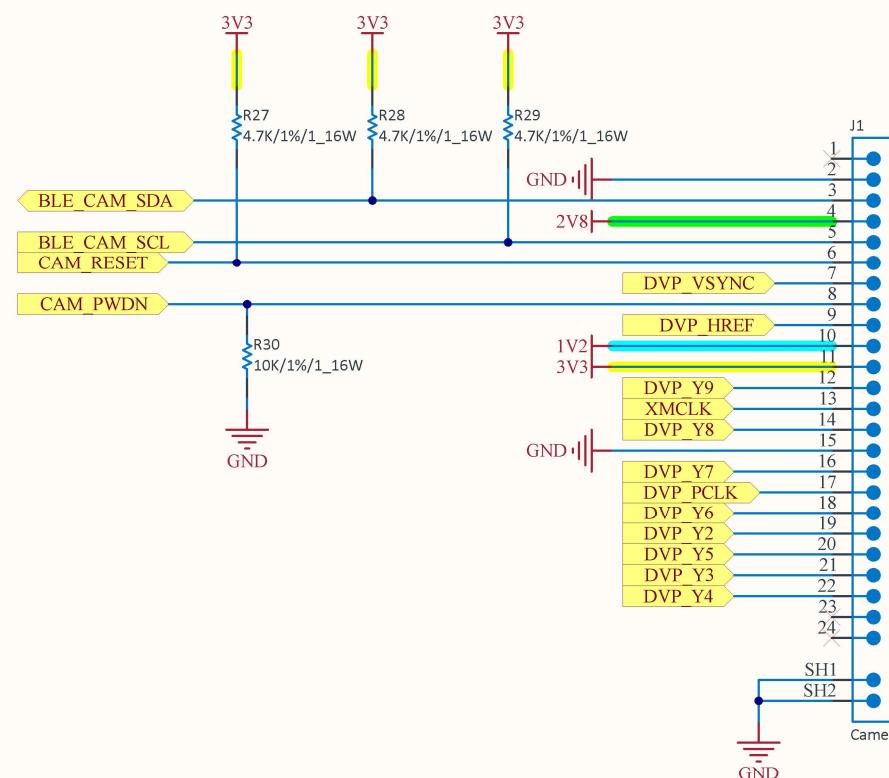
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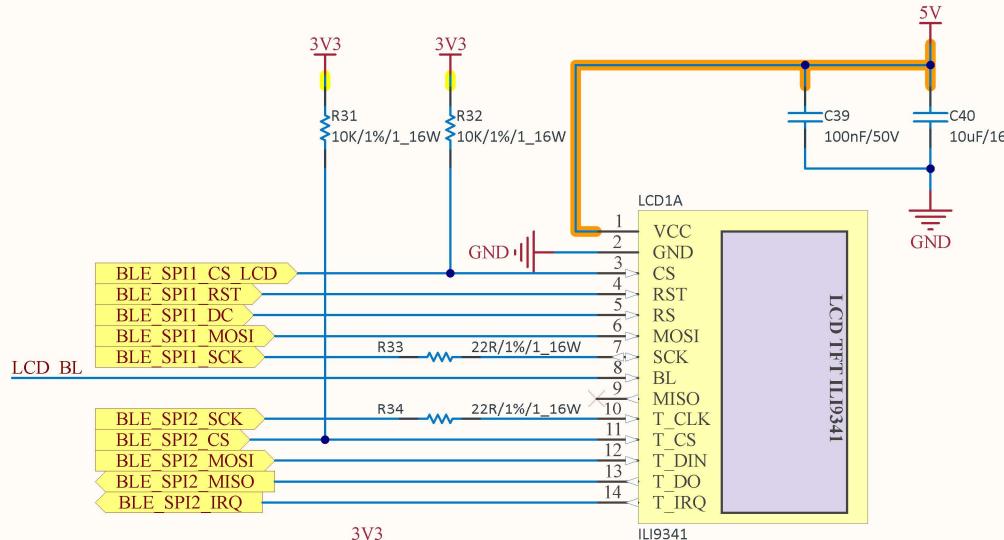
Last Modified: 2/12/2025

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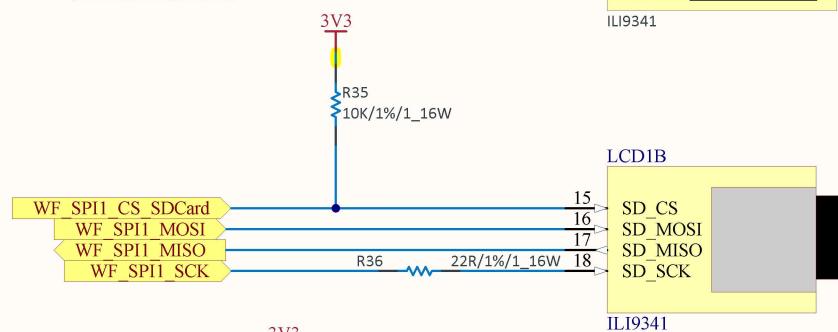
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File: Camera.SchDoc

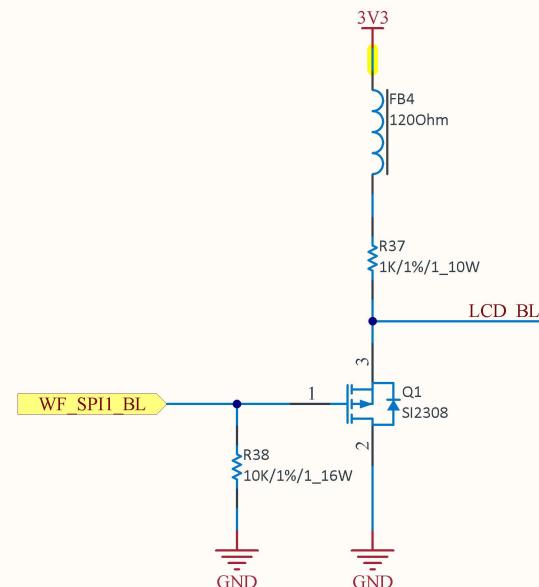
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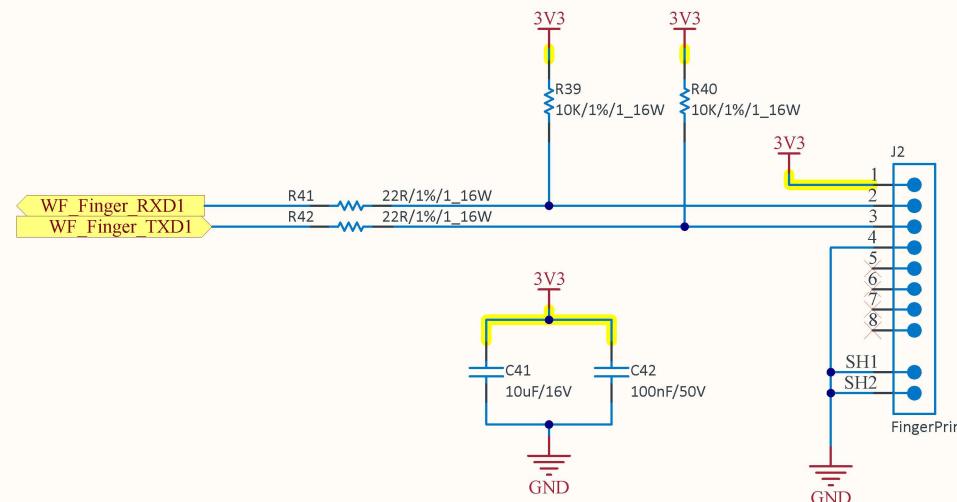
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D



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File: Fingerprint.SchDoc

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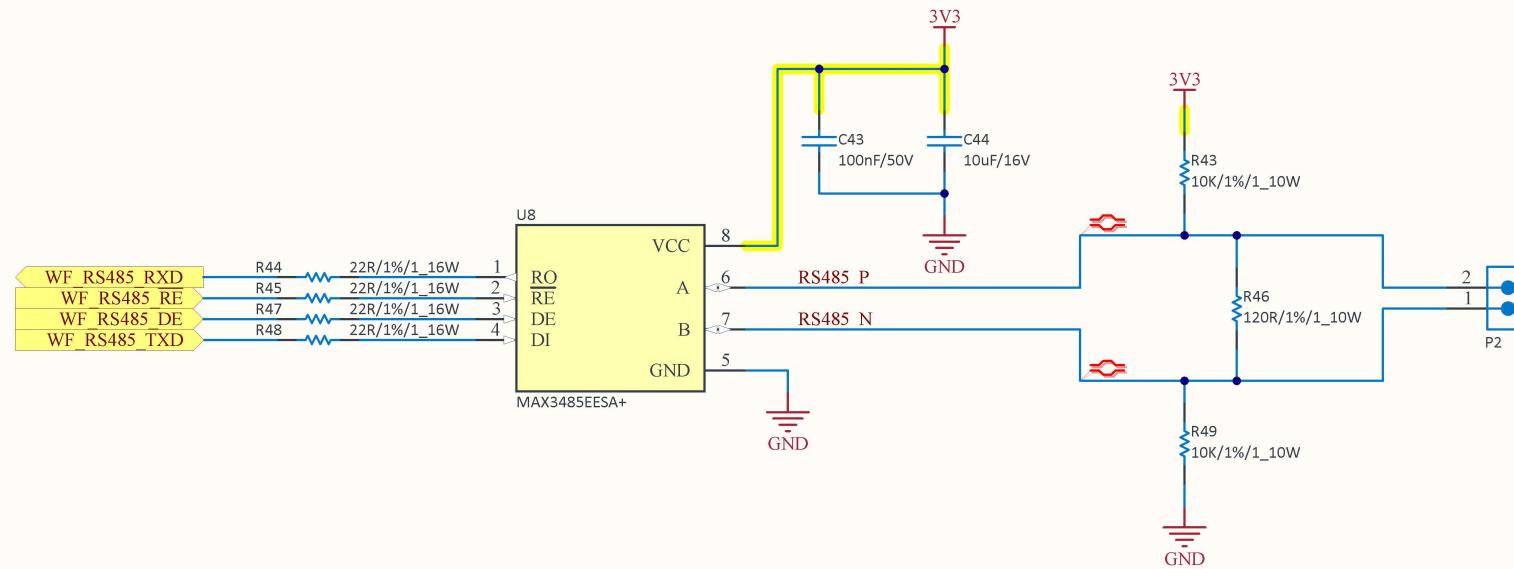
B

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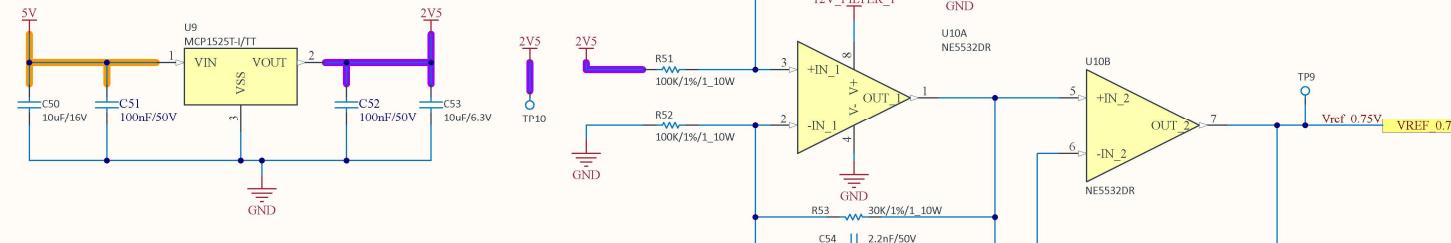
Last Modified: 2/12/2025

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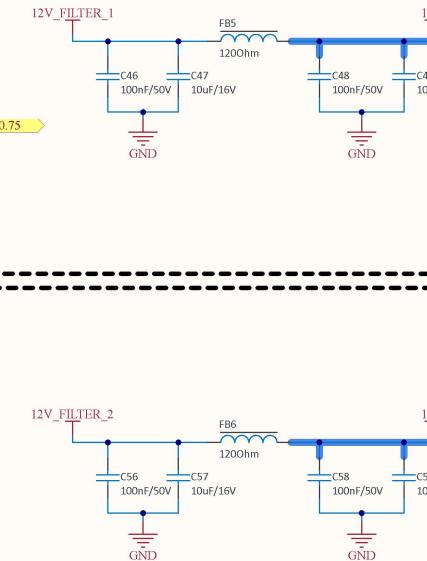
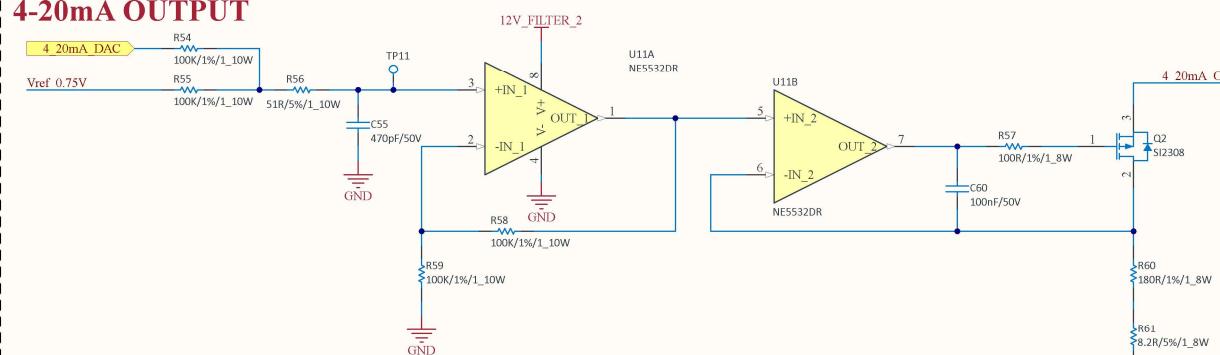
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File: UART\_RS485.SchDoc

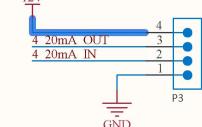
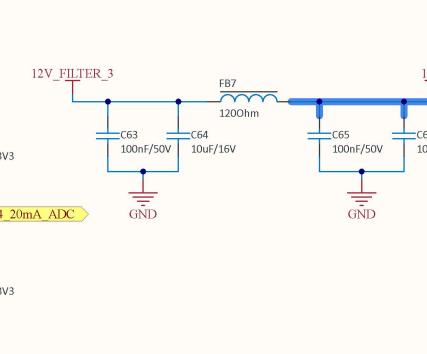
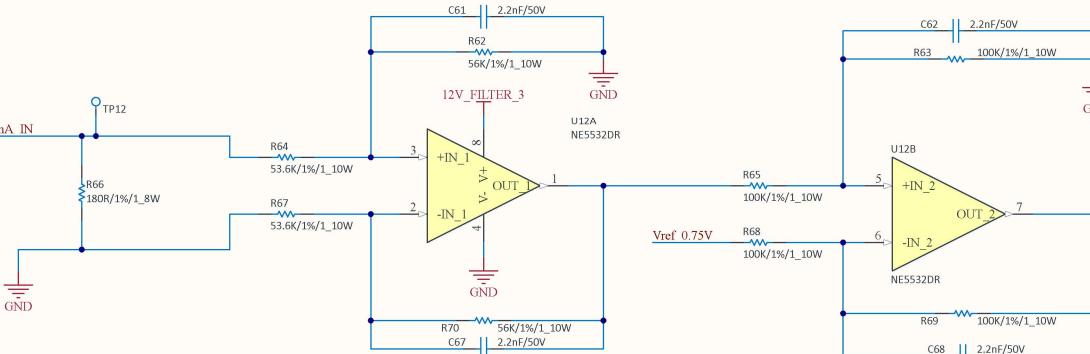
## CREATE VREF 0.75V



## 4-20mA OUTPUT

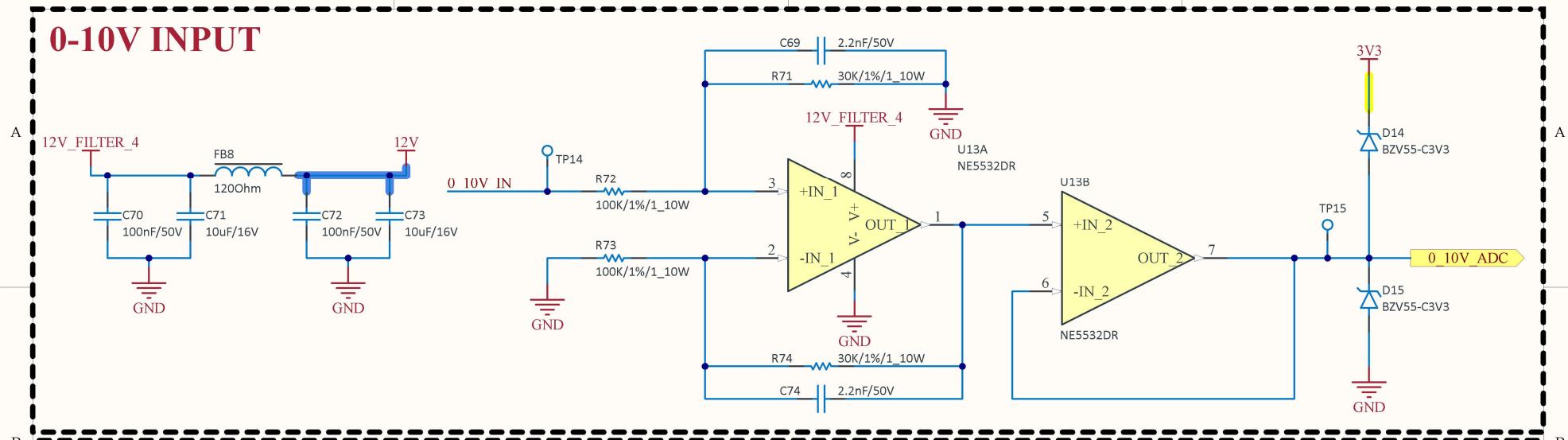


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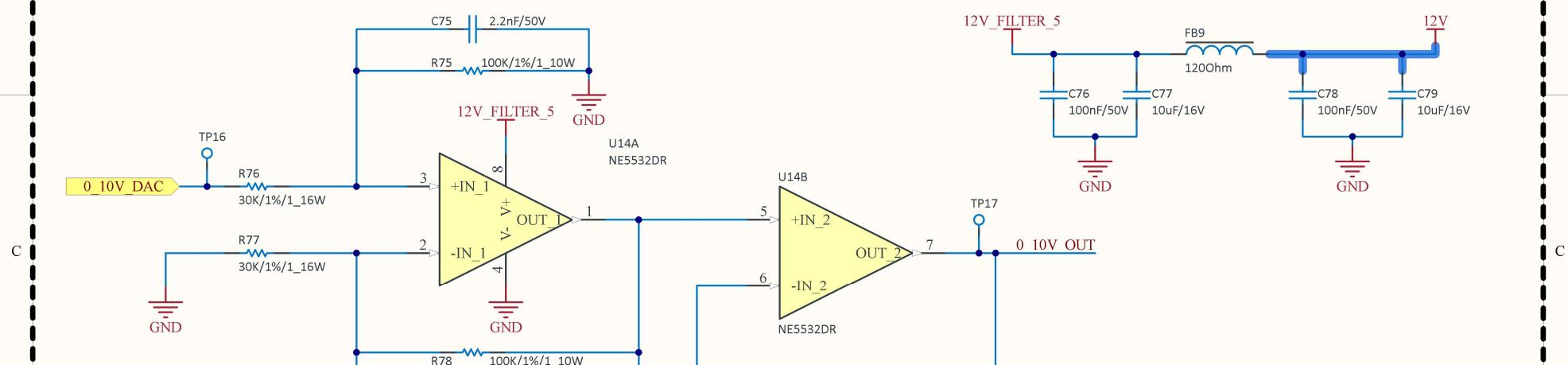


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## 0-10V INPUT



## 0-10V OUTPUT



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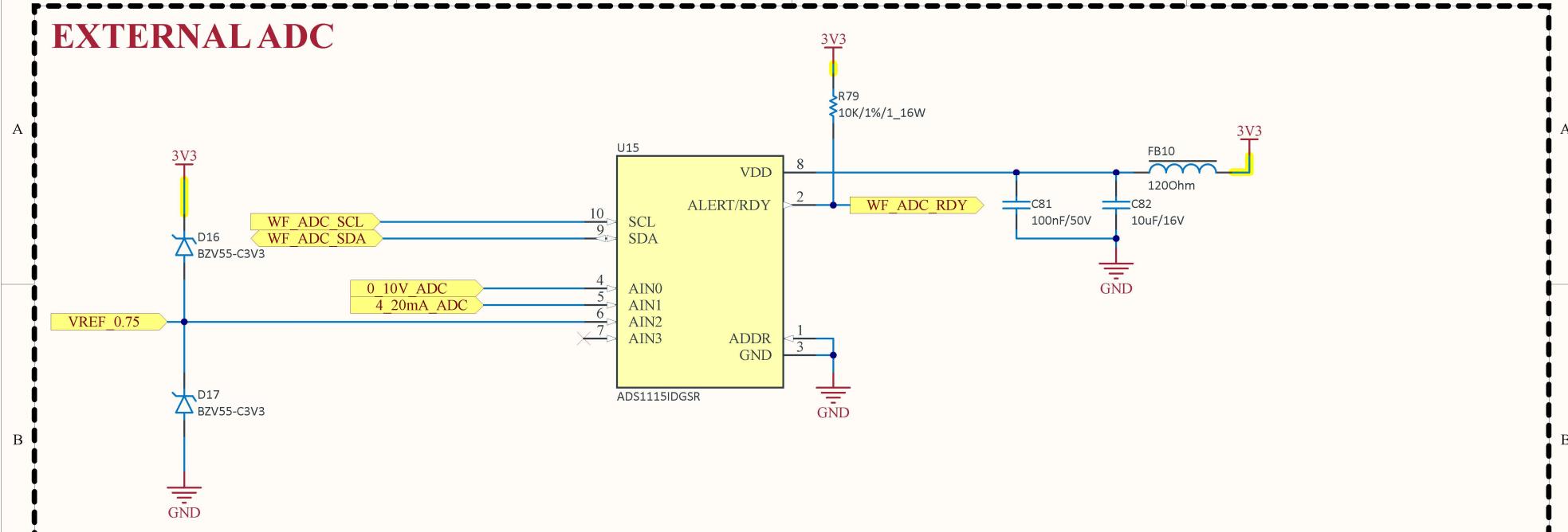
Last Modified: 2/12/2025

Drawn By: Q.Thang & T.Khoa

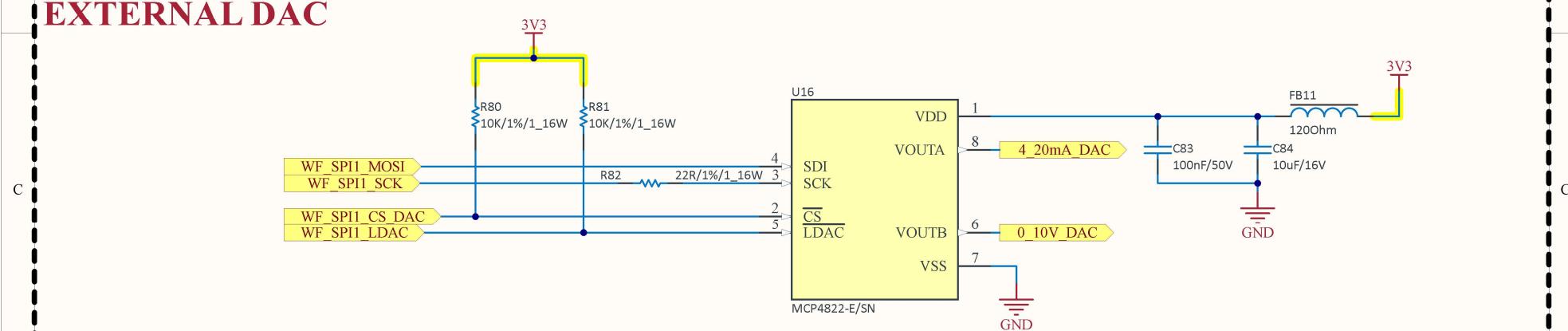
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File: 0-10V\_Converter.SchDoc

## EXTERNAL ADC



## EXTERNAL DAC



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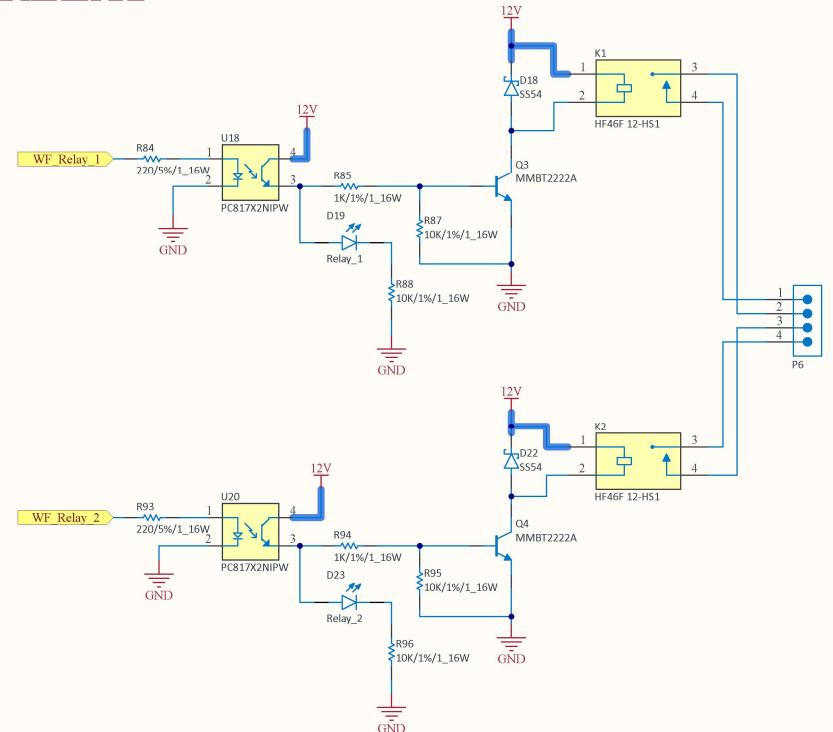
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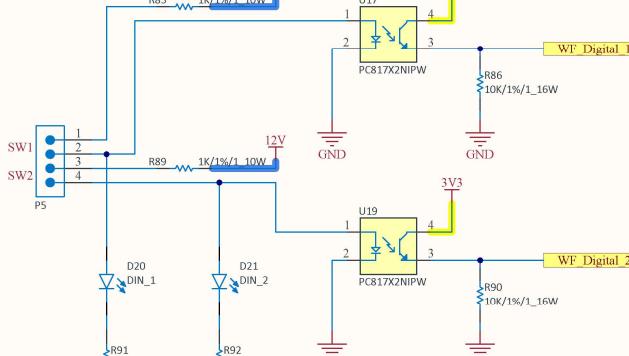
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File: DAC\_ADC\_External.SchDoc

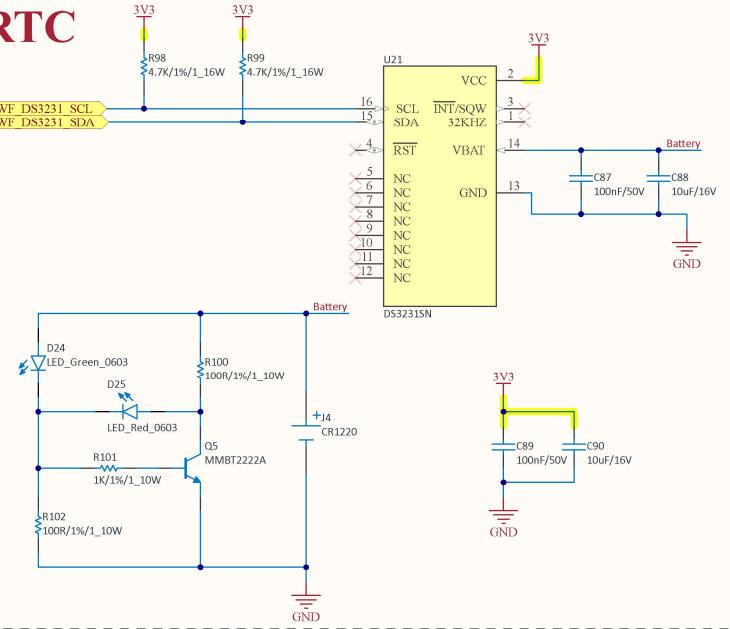
# RELAY



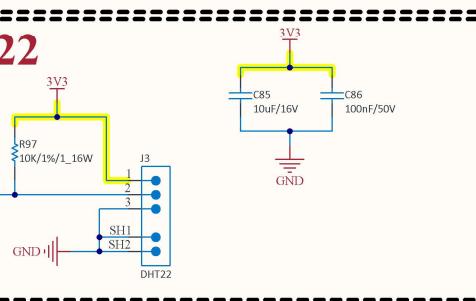
# DIGITAL INPUT



# RTC

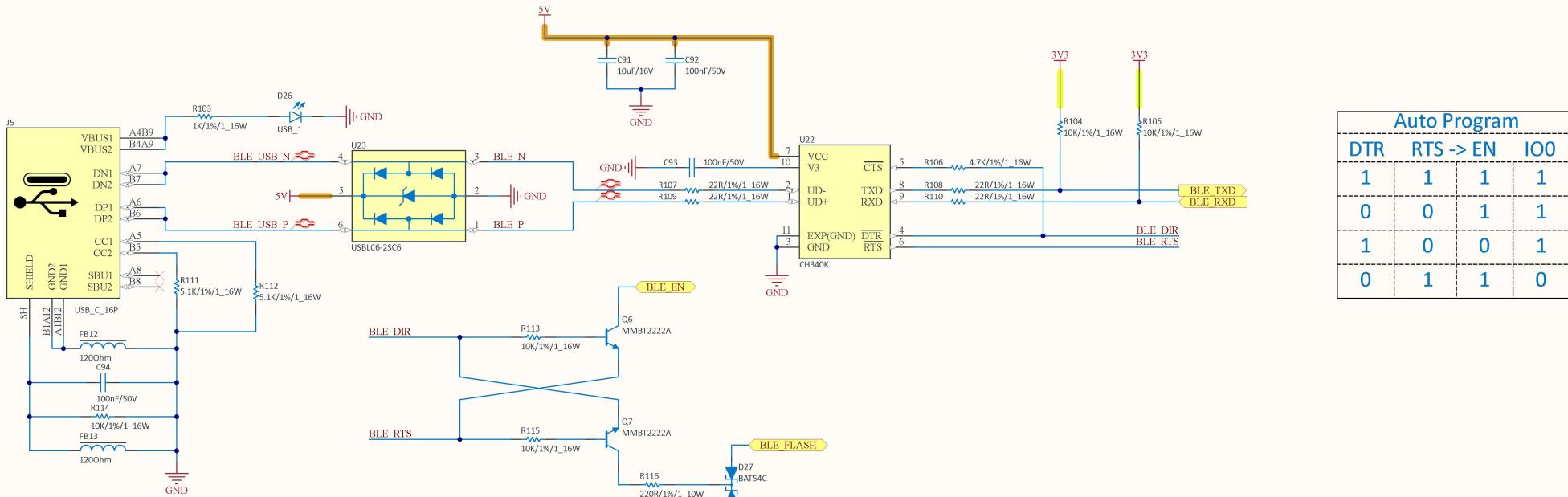


# DHT22



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File: Interface_O.SchDoc	

# PROGRAM ESP32-S3-Bluetooth



# PROGRAM ESP32-S3-WiFi

