

PROJECT: SLT 6U Satellite

sub-system: SLT_110.PrjPcb

Version: 1.1.0



Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

Sheet title: COVER PAGE.SchDoc

Sheet 1 of 21

Checked by: Bao Bui

Document No: 1

Size: A3

Approved by: Vu Pham

Revision: 1.1.0

Date: 09/29/2025

A

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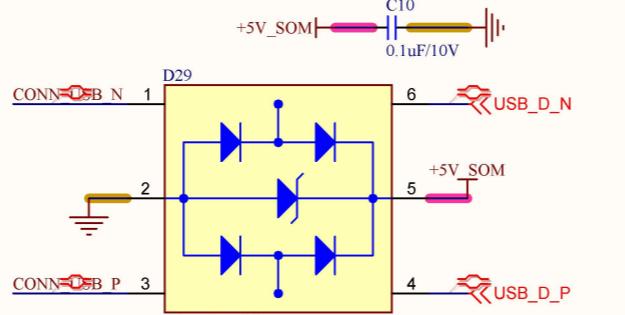
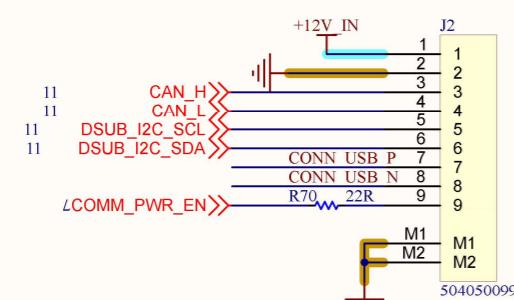
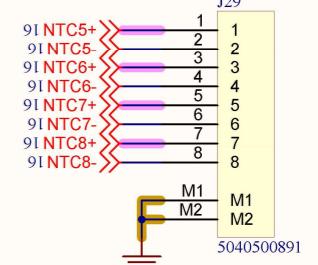
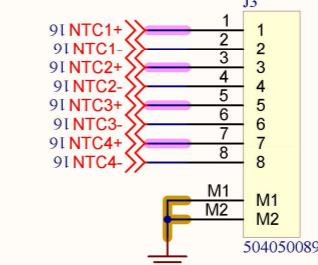
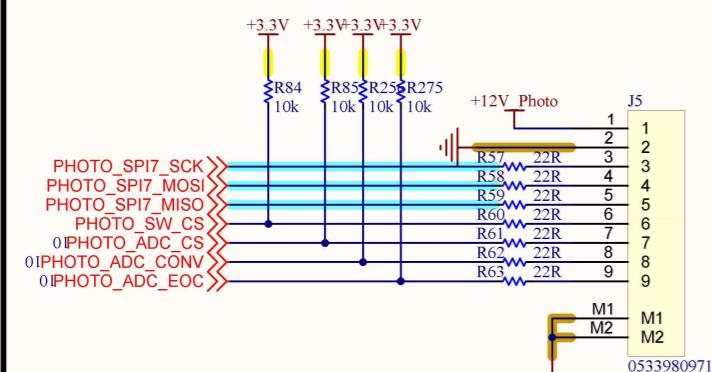
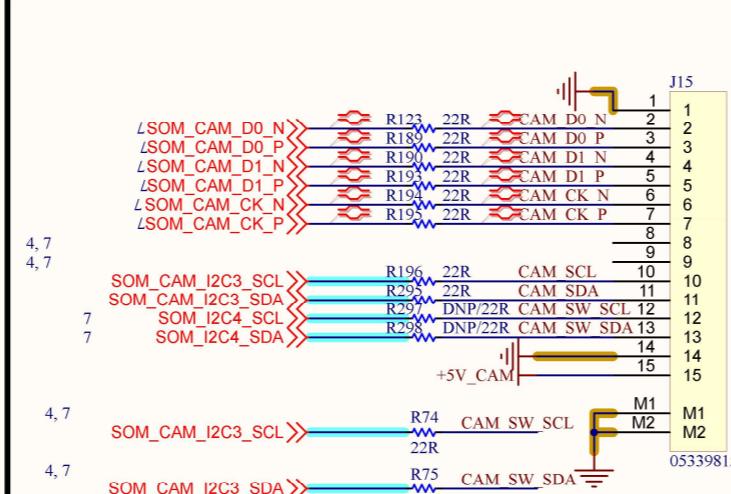
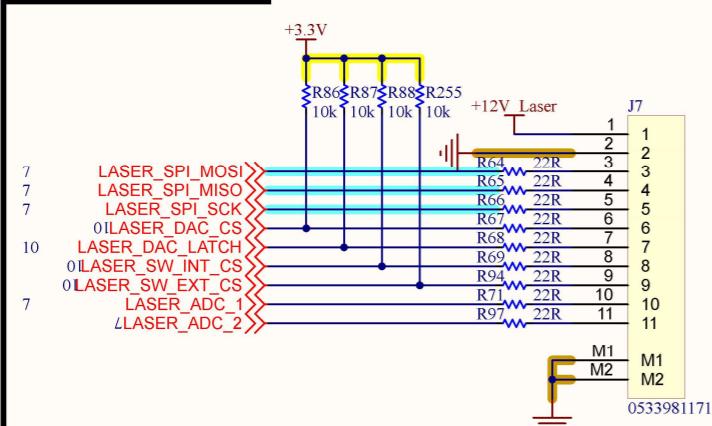
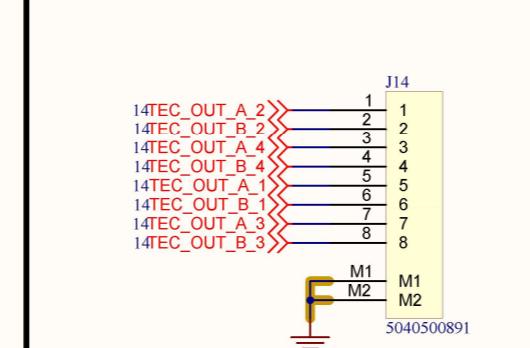
Project: SLT 6U Satellite	Sub-system: SLT 6U Satellite	
Design by: Cam Doan	Sheet title: BLOCK DIAGRAM.SchDoc	Sheet 2 of 21
Checked by: Bao Bui	Document No: 2	Size: A3
Approved by: Vu Pham	Revision: 1.1.0	Date: 09/29/2025

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Design by: Cam Doan	Sheet title: INDEX.SchDoc	Sheet 3 of 21
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for COMM Board**CONN NTC****for PHOTOSENSOR****for CAMERA****for LASER****CONN TEC**

Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

Sheet title: CONNECTOR.SchDoc

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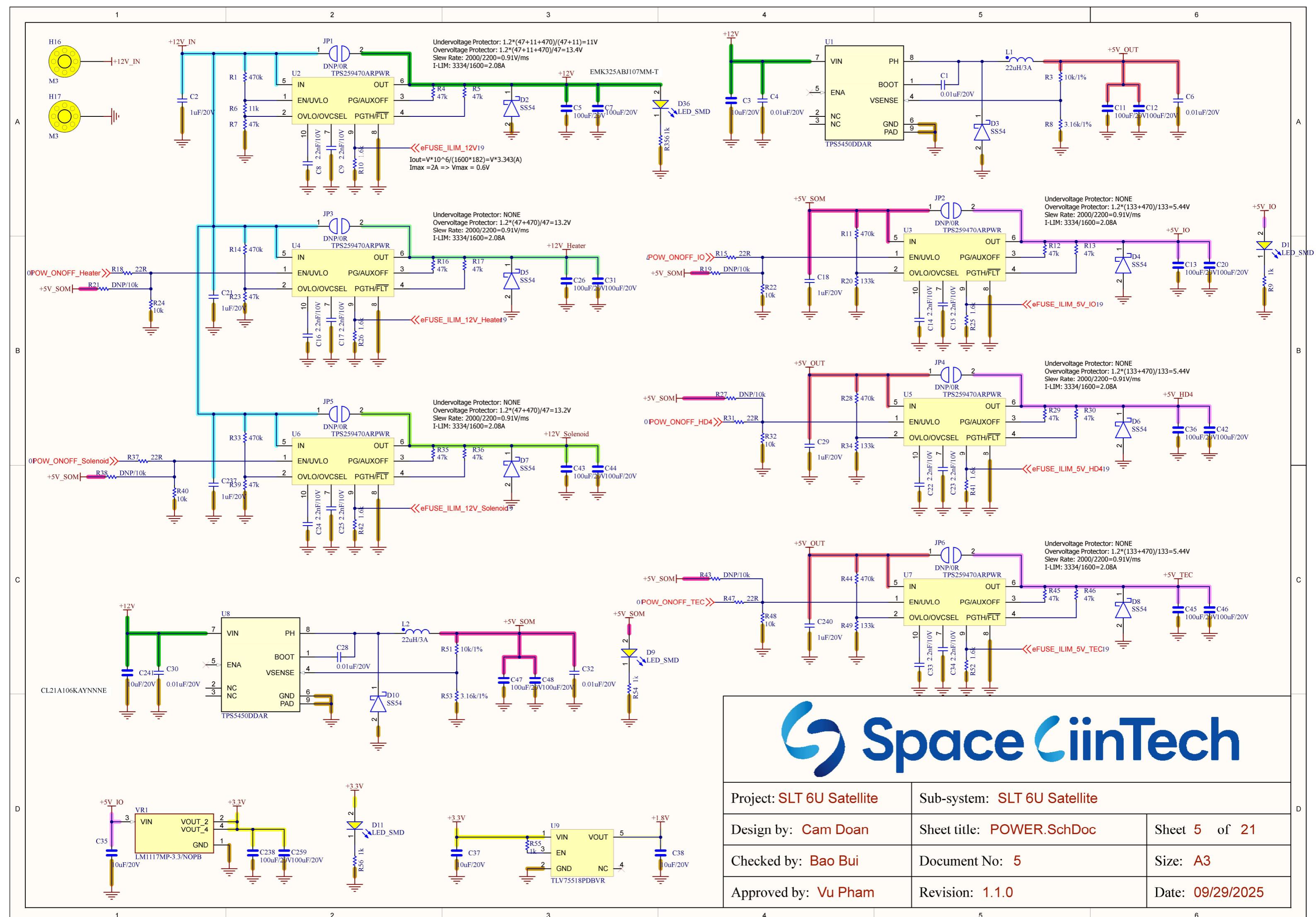
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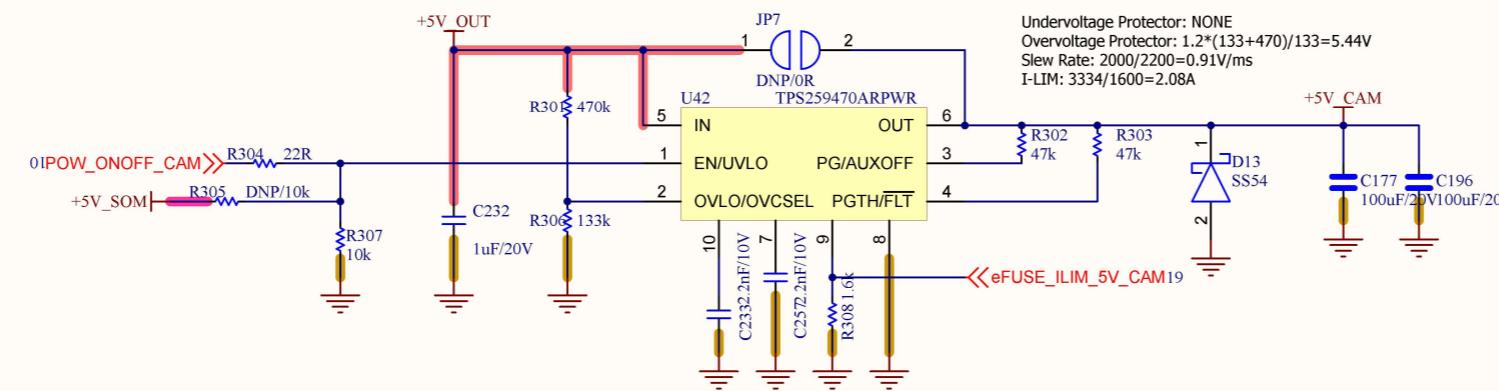
Approved by: Vu Pham

Revision: 1.1.0

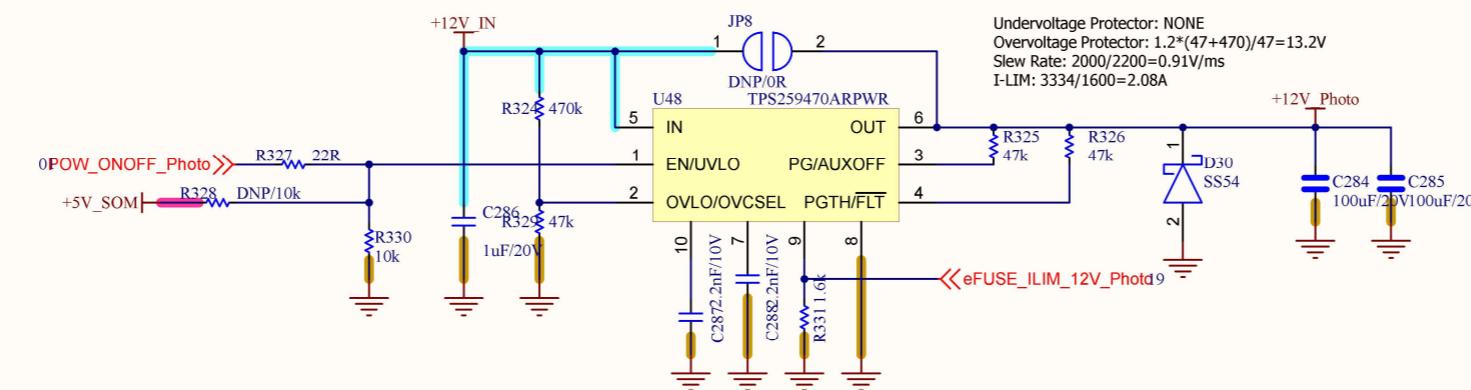
Date: 09/29/2025



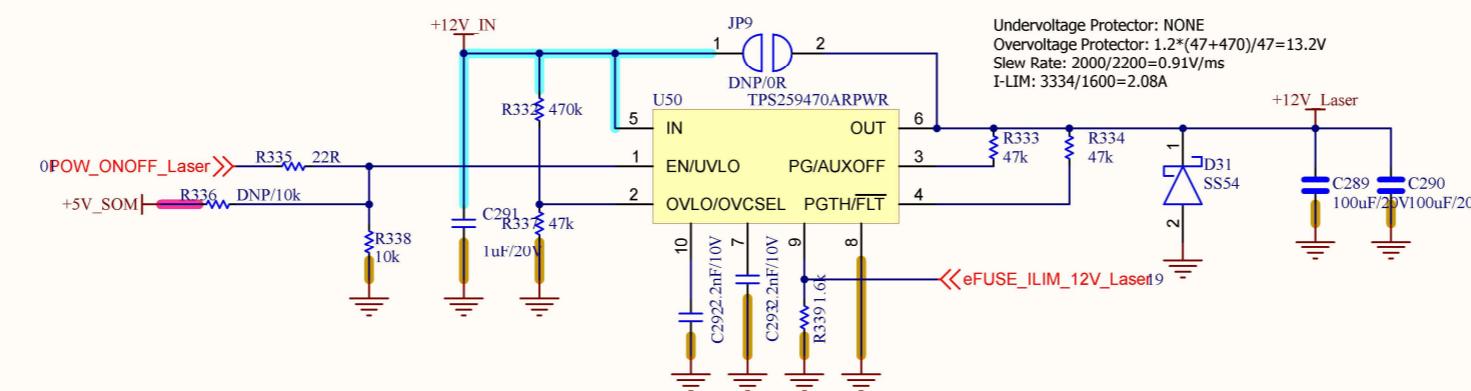
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A



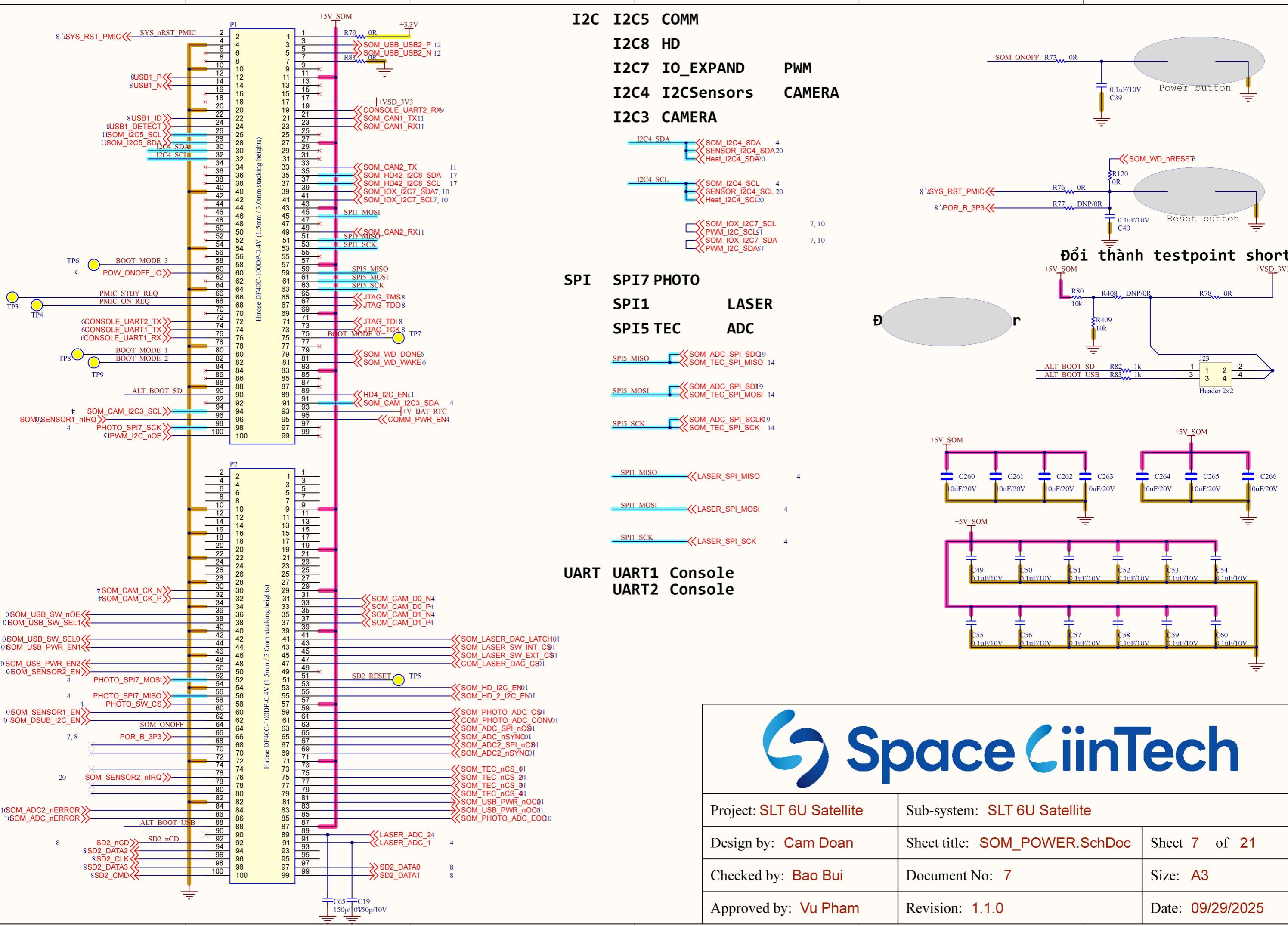
B



C



Project: SLT 6U Satellite	Sub-system: SLT 6U Satellite	
Design by: Cam Doan	Sheet title: POWER_2.SchDoc	Sheet 6 of 21
Checked by: Bao Bui	Document No: 6	Size: A3
Approved by: Vu Pham	Revision: 1.1.0	Date: 09/29/2025



Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

Sheet title: SOM_POWER.SchDoc

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Checked by: Bao Bui

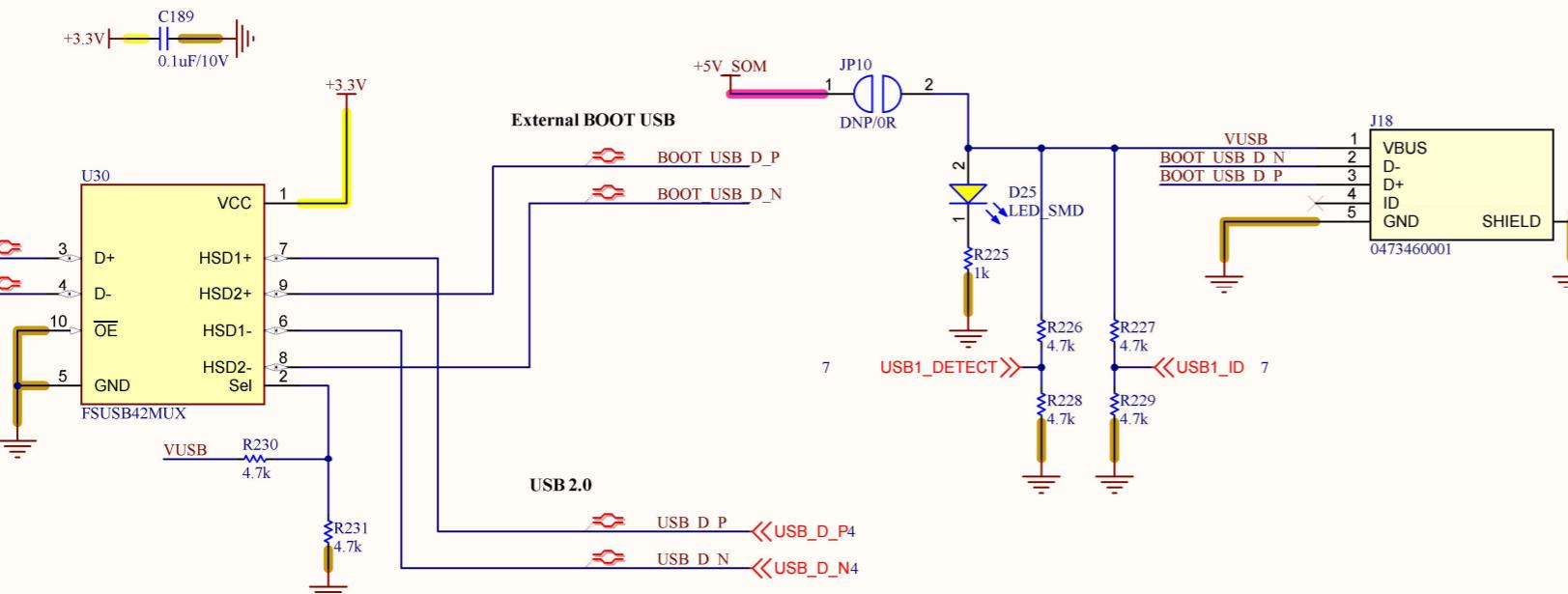
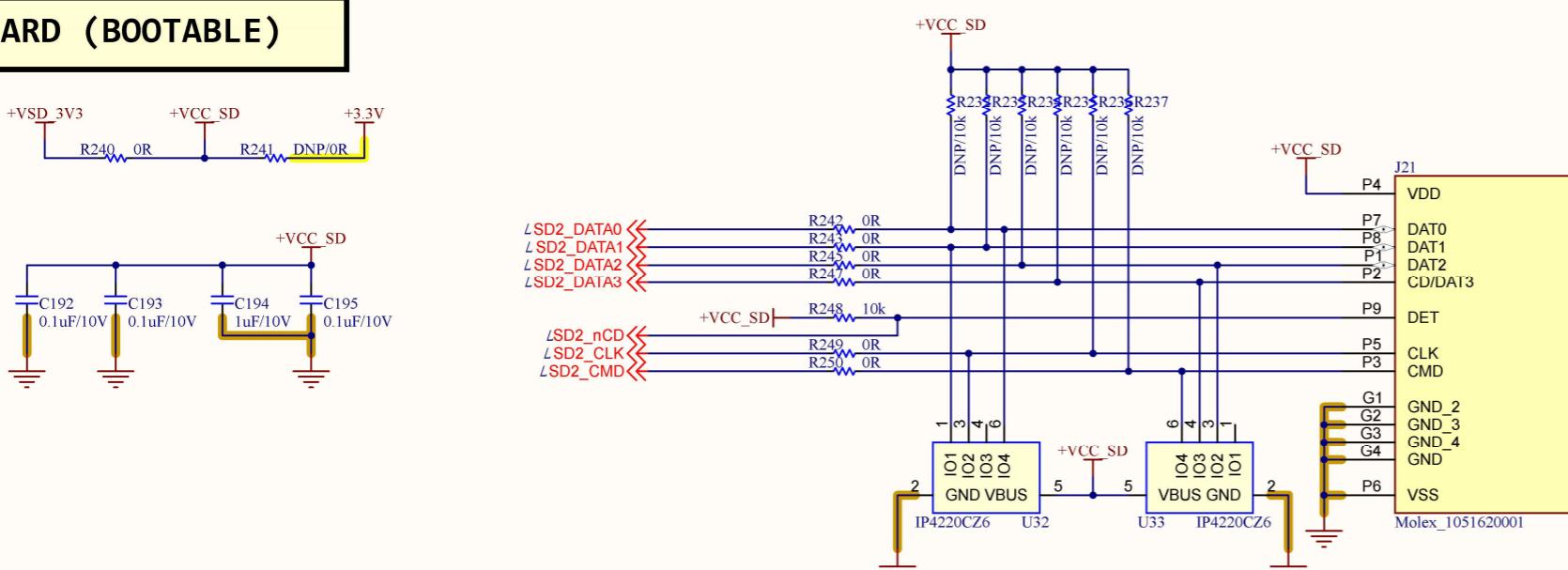
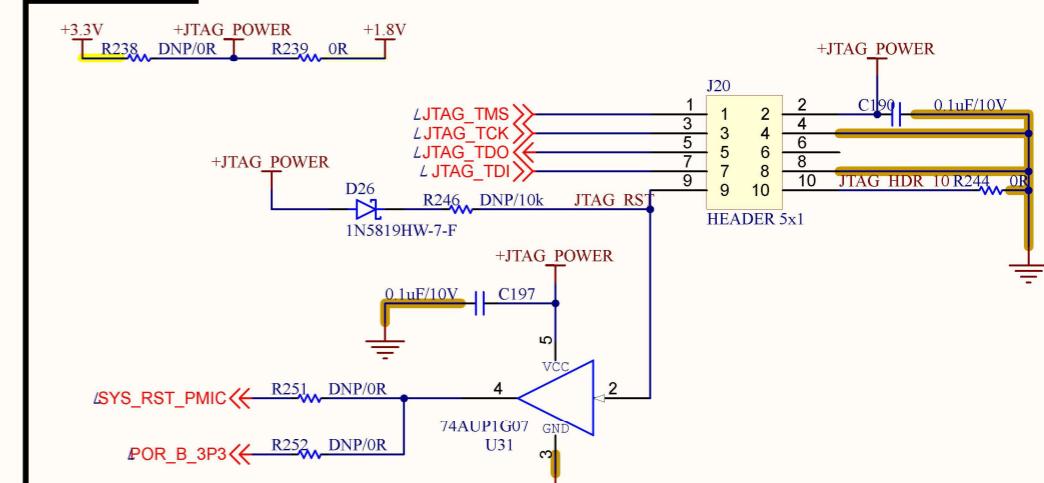
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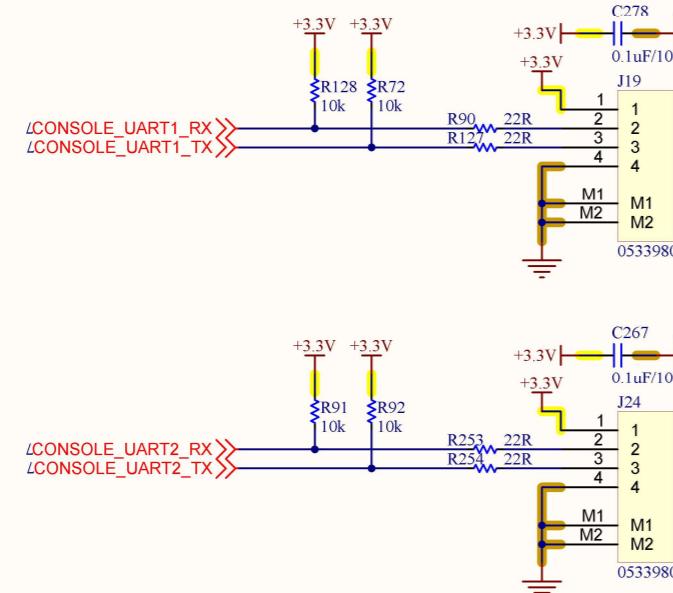
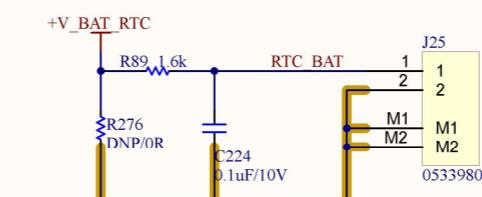
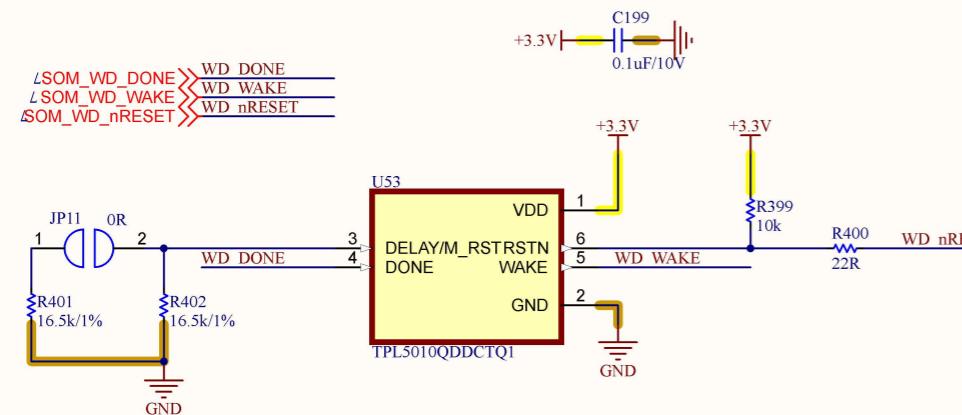
Size: A3

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Revision: 1.1.0

Date: 09/29/2025

USB (BOOTABLE)**SD CARD (BOOTABLE)****JTAG**Project: **SLT 6U Satellite**Sub-system: **SLT 6U Satellite**Design by: **Cam Doan**Sheet title: **SOM_BOOT.SchDoc**Sheet **8** of **21**Checked by: **Bao Bui**Document No: **8**Size: **A3**Approved by: **Vu Pham**Revision: **1.1.0**Date: **09/29/2025**

CONSOLE**RTC****WATCH DOG**

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Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

Sheet title: SOM_Console.SchDoc

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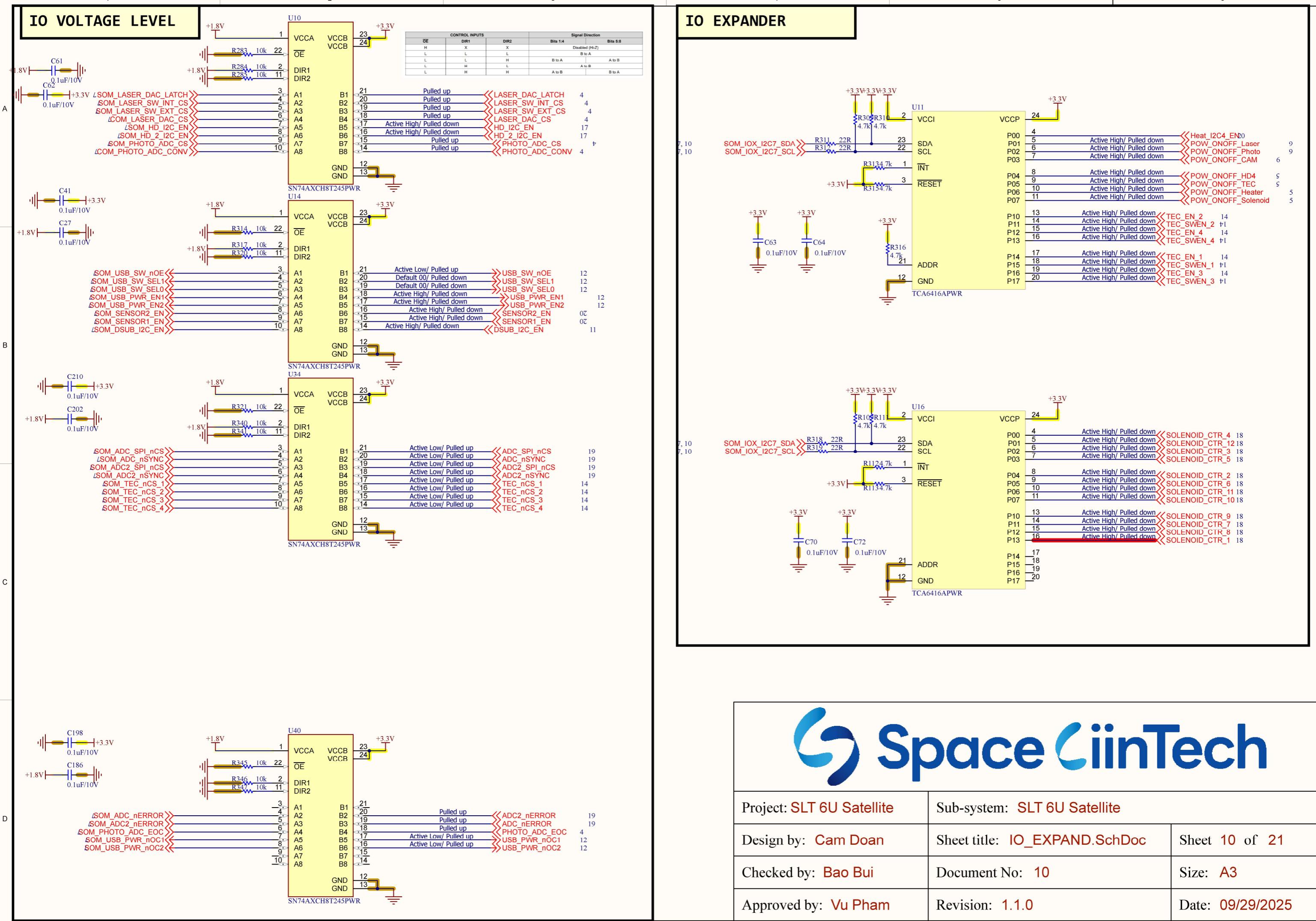
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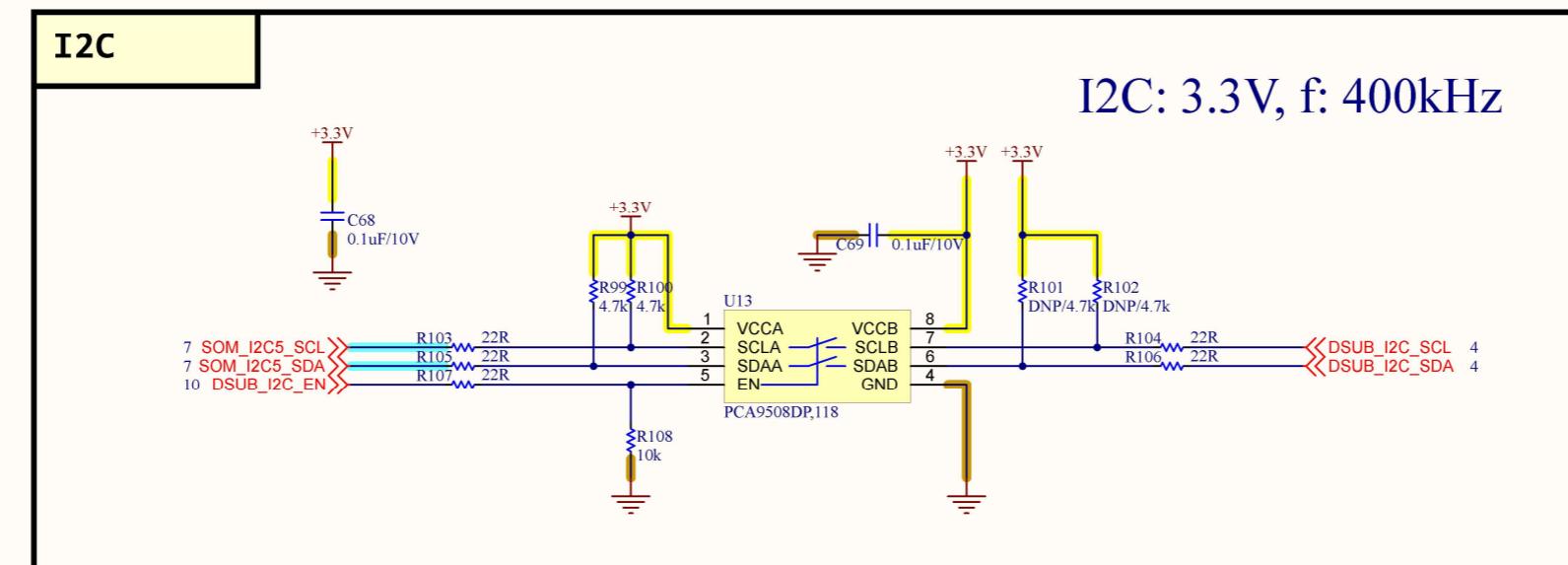
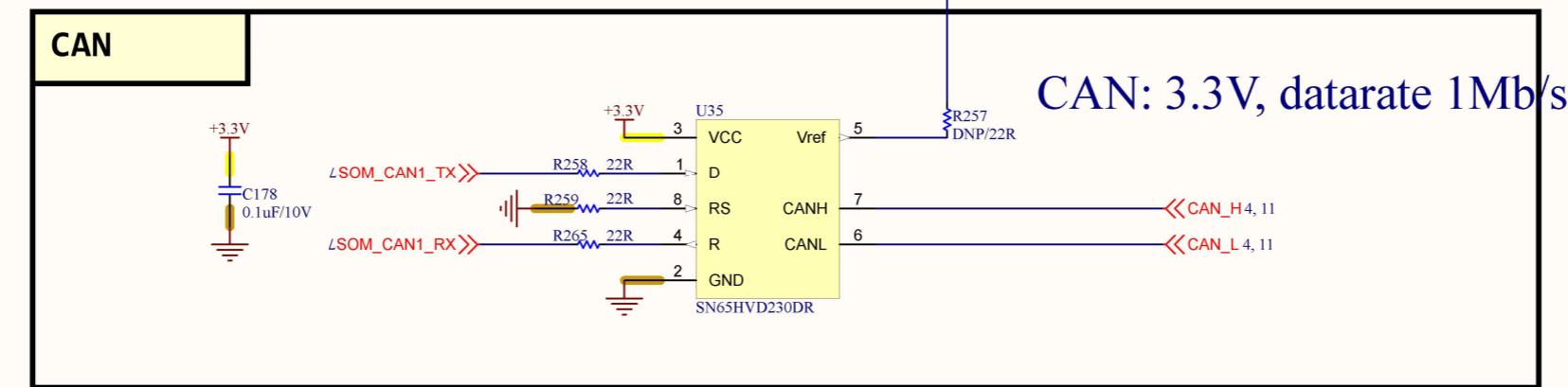
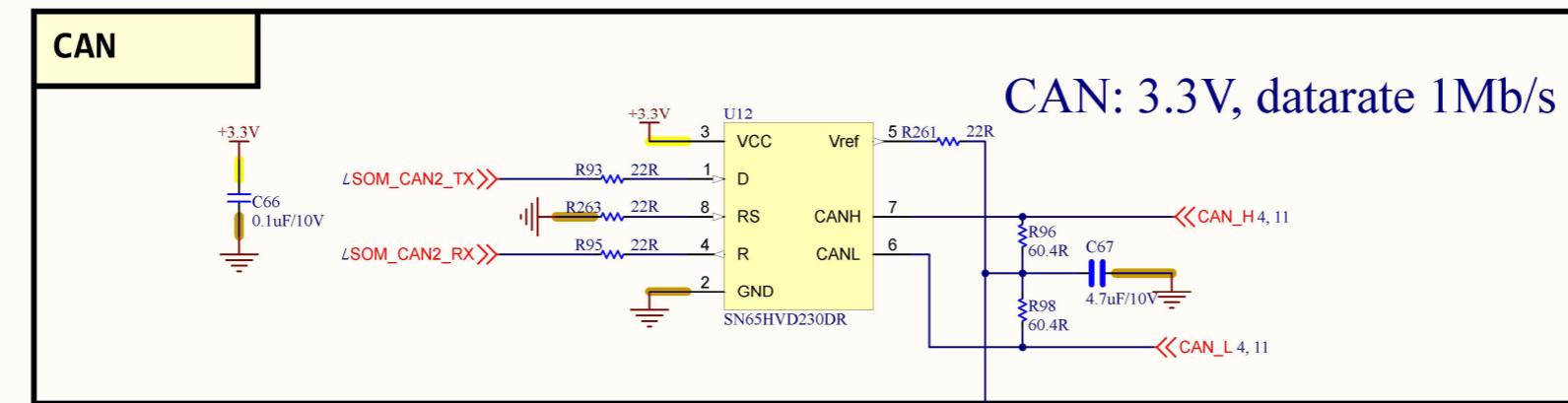
Size: A3

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Sub-system: SLT 6U Satellite

Design by: Cam Doan

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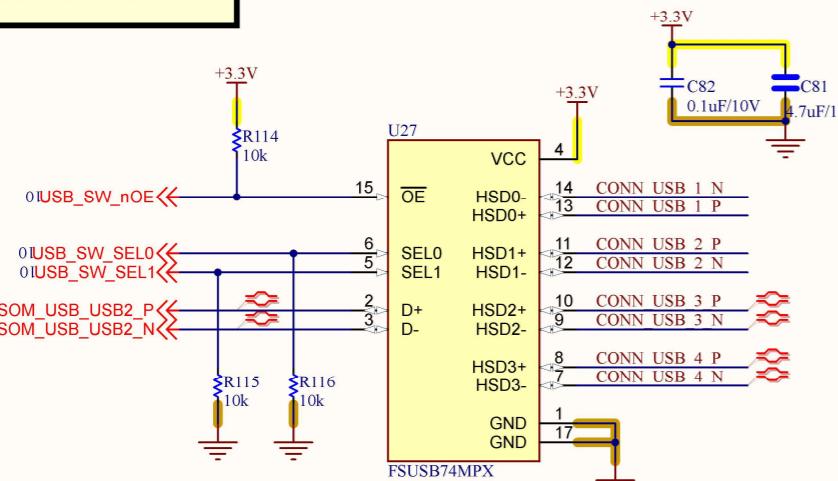
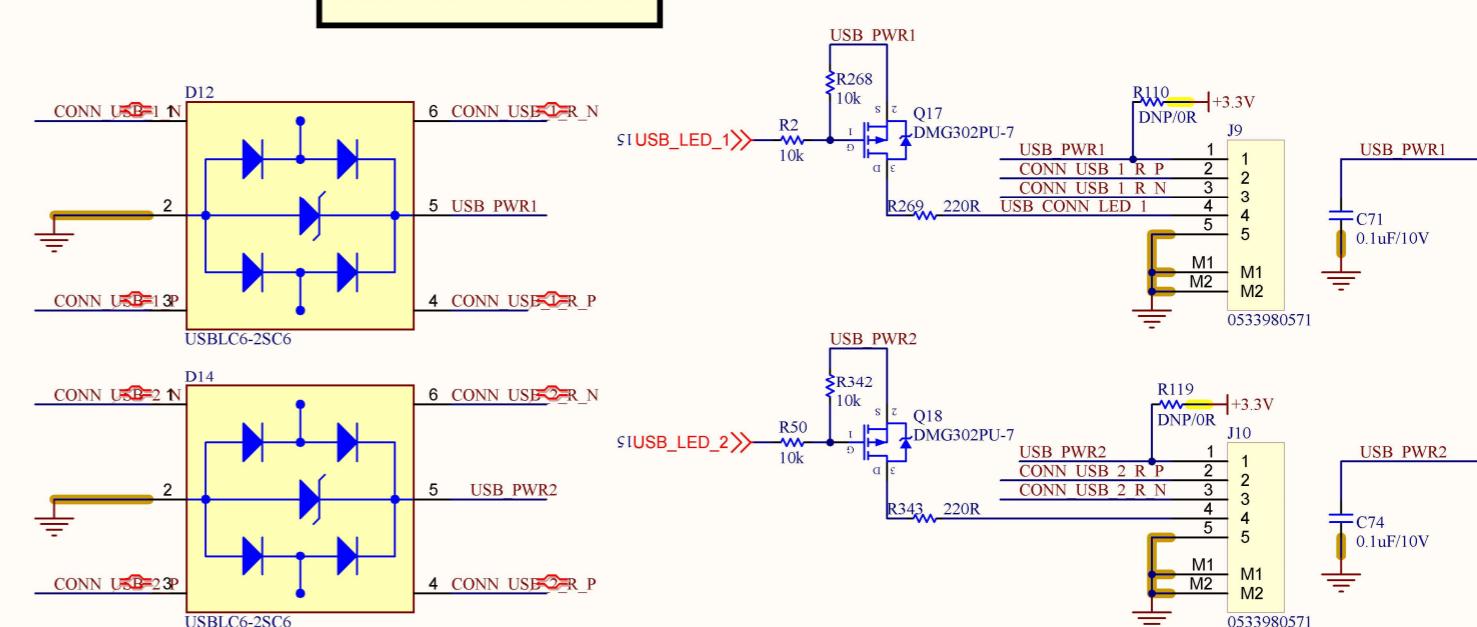
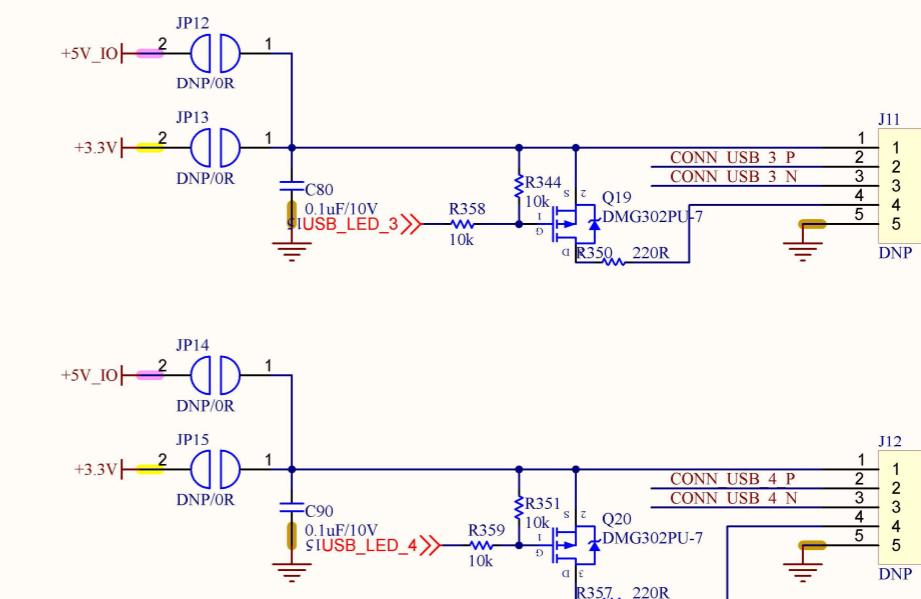
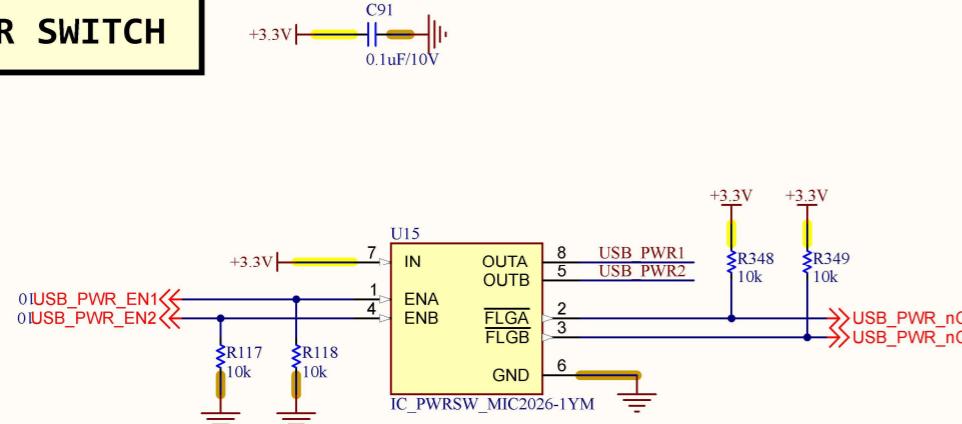
Document No: 11

Size: A3

Approved by: Vu Pham

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USB SW 1:4**USB Connectors****POWER SWITCH**

Theme BJT keo LED



Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

Sheet title: USB.SchDoc

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Size: A3

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Revision: 1.1.0

Date: 09/29/2025

$$I_{LD} = (VDAC * R3) / (R32 * R8)$$

A

A

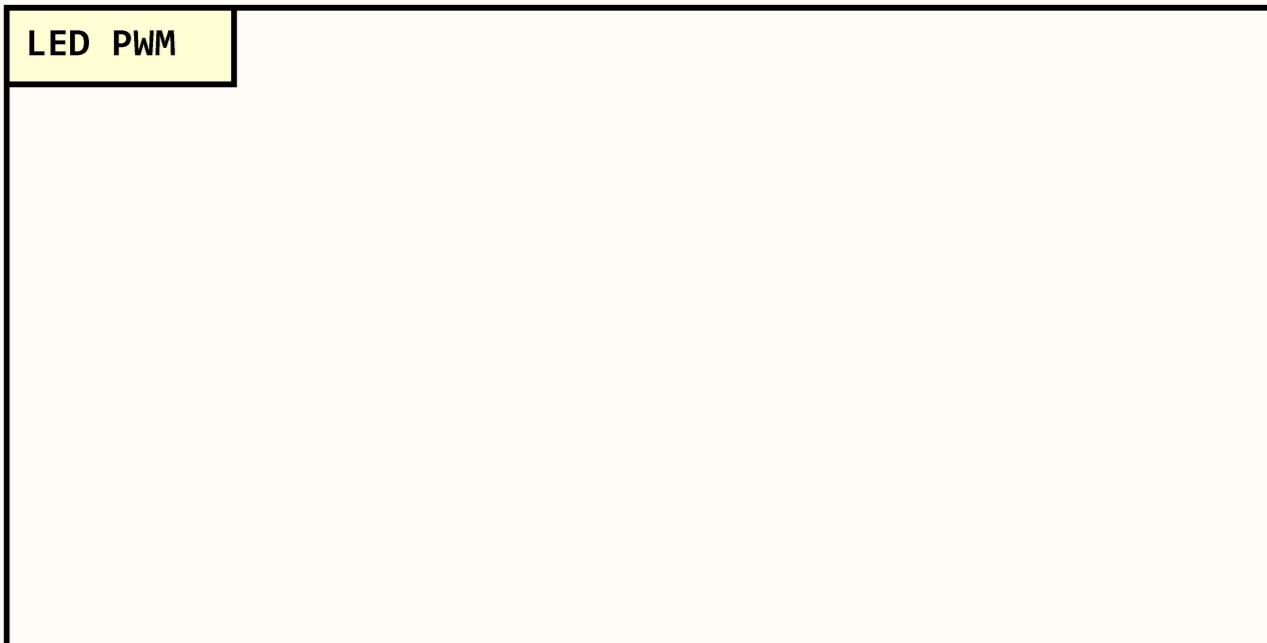
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B

LED PWM

C

C



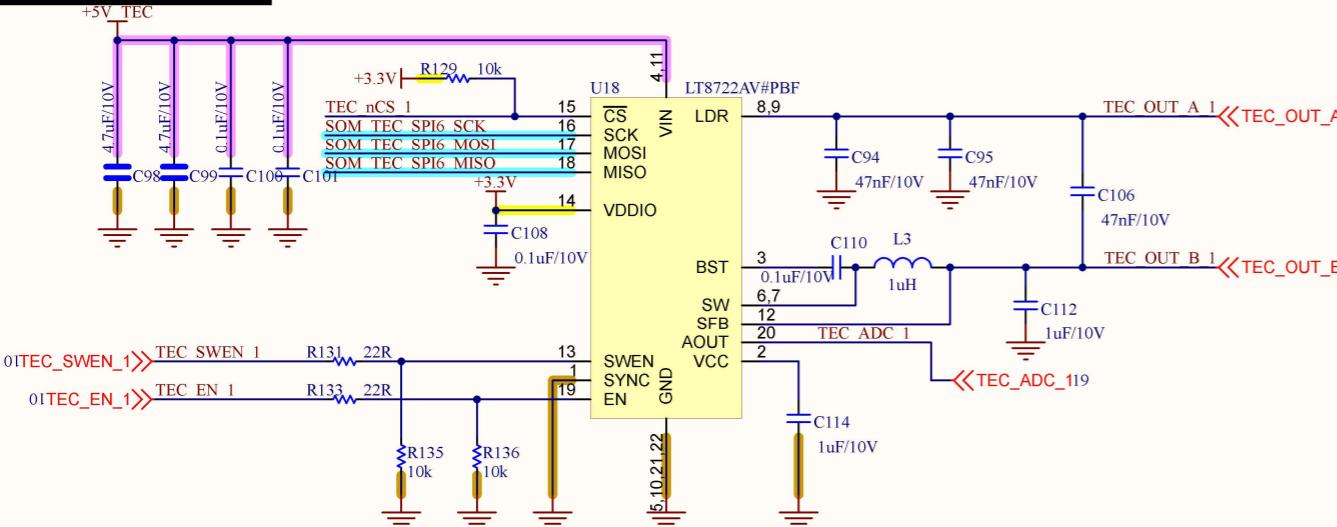
Project: SLT 6U Satellite	Sub-system: SLT 6U Satellite	
Design by: Cam Doan	Sheet title: LED.SchDoc	Sheet 13 of 21
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L_SOM_TEC_SPI_SCK
 SOM TEC SPI6 SCK
 L_SOM_TEC_SPI_MOSI
 SOM TEC SPI6 MOSI
 L_SOM_TEC_SPI_MISO
 SOM TEC SPI6 MISO

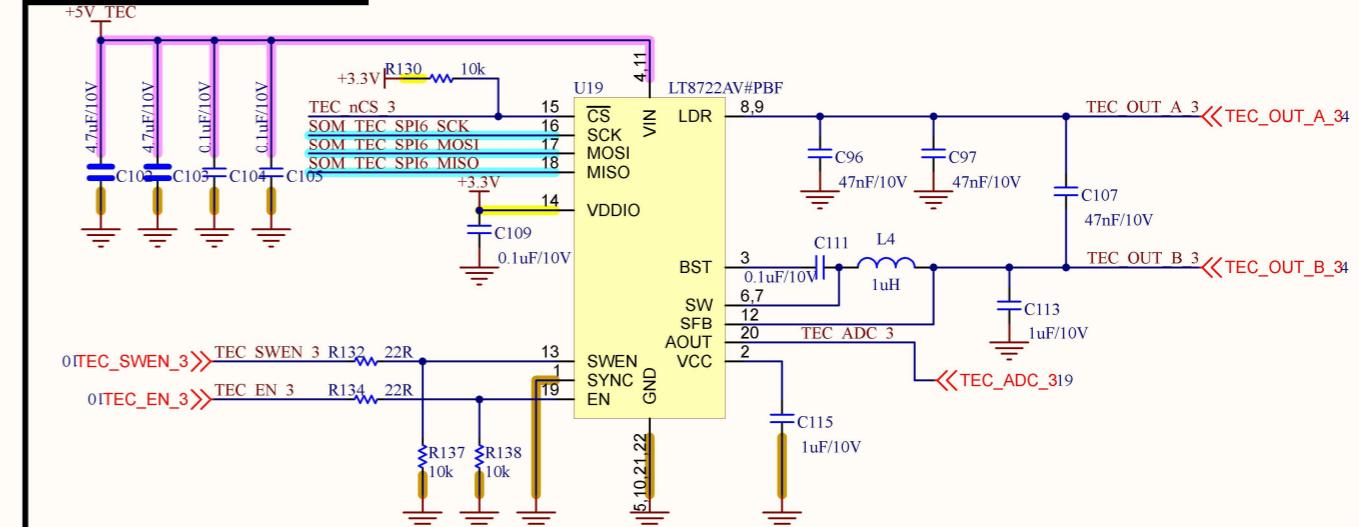
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 TEC nCS 1
 0I TEC_nCS_2
 TEC nCS 2
 0I TEC_nCS_3
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 0I TEC_nCS_4
 TEC nCS 4

Check lại nhờ Sang

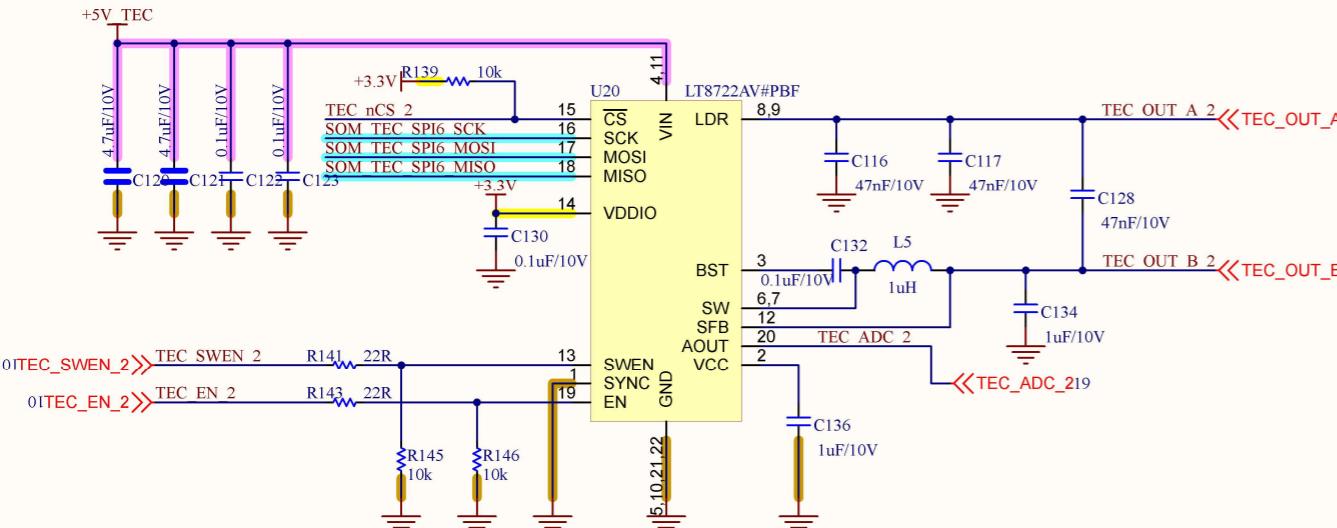
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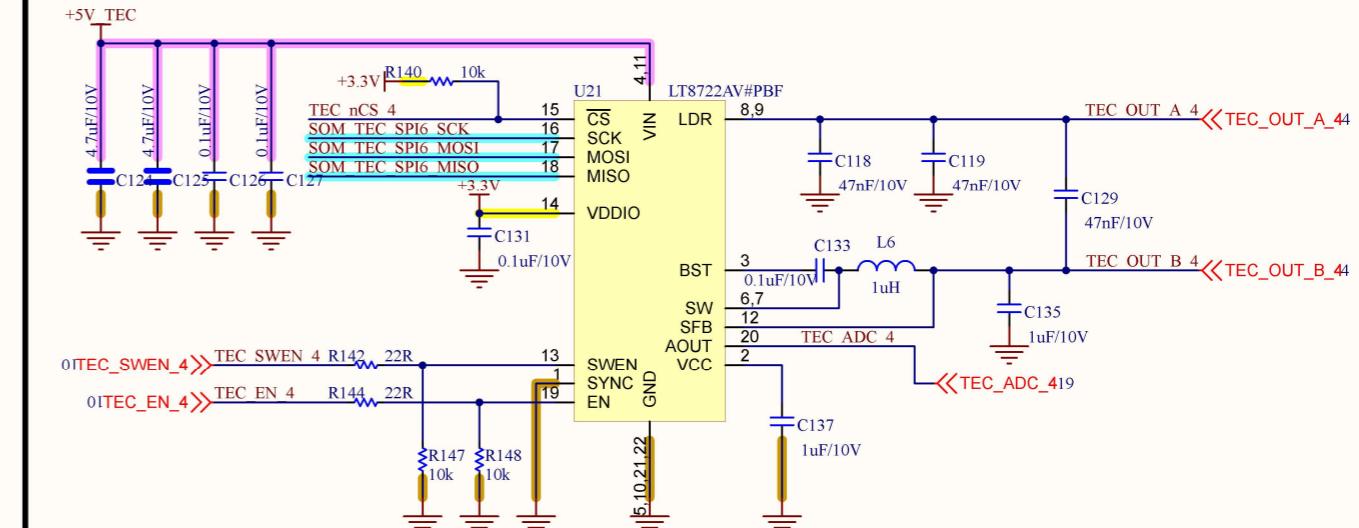
TEC 3



TEC 2



TEC 4



Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

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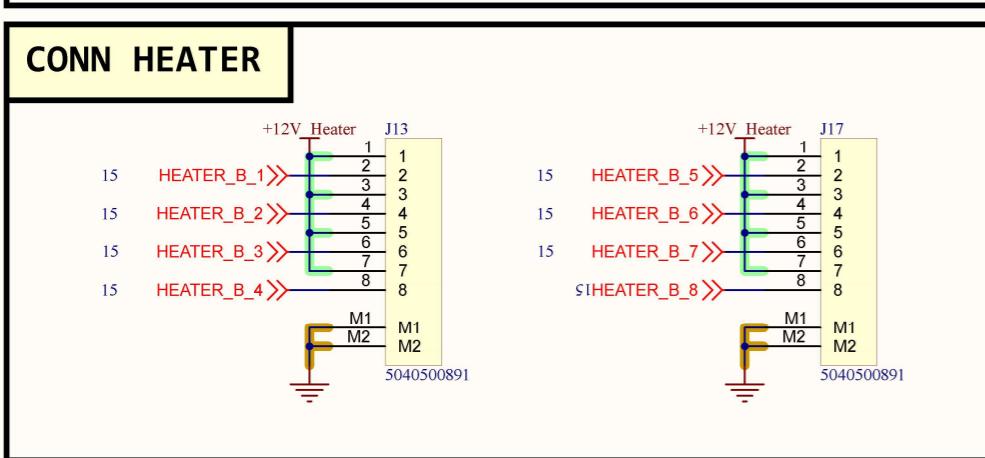
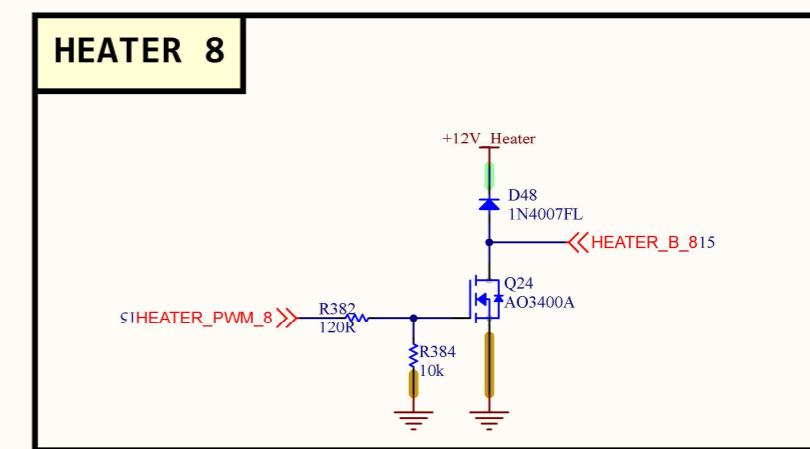
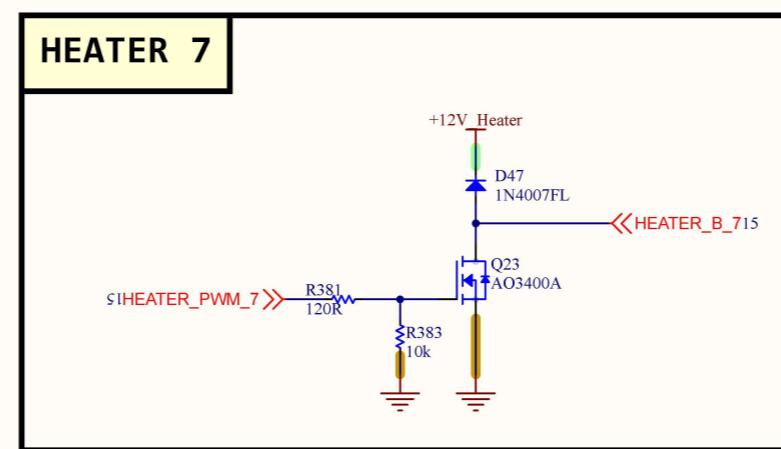
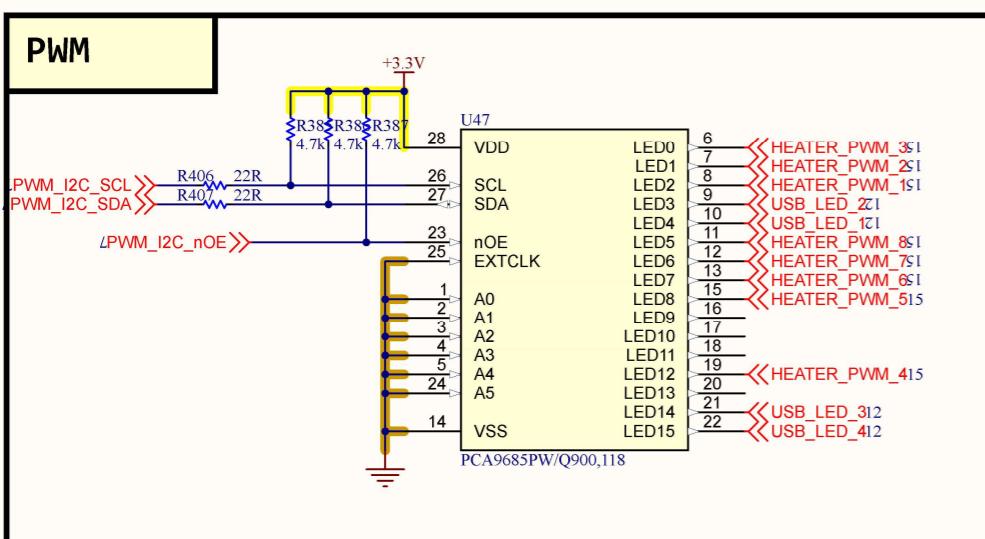
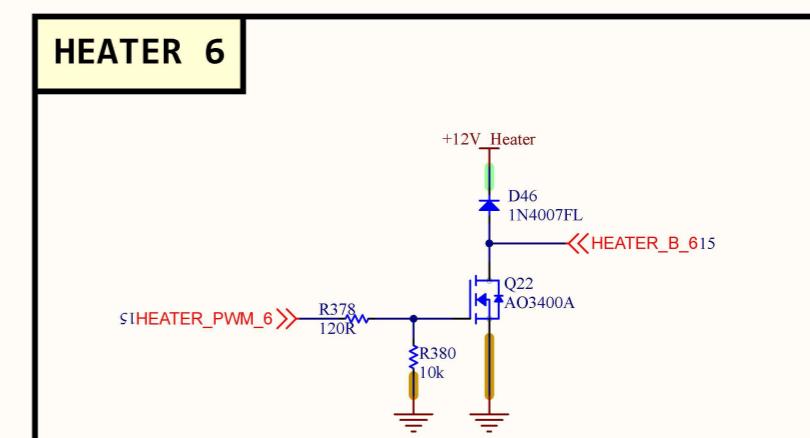
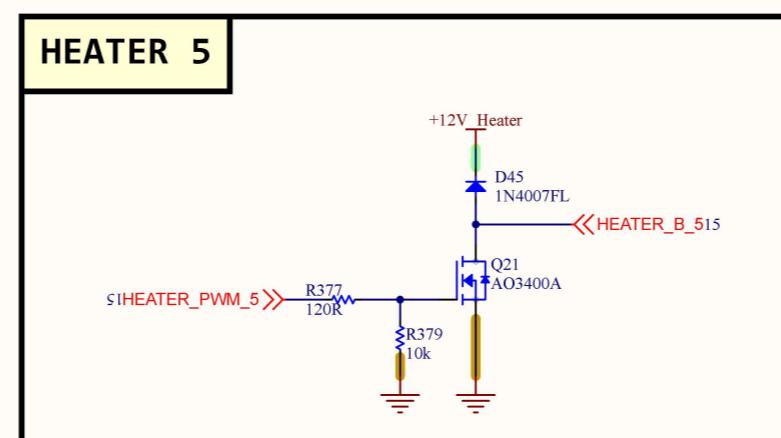
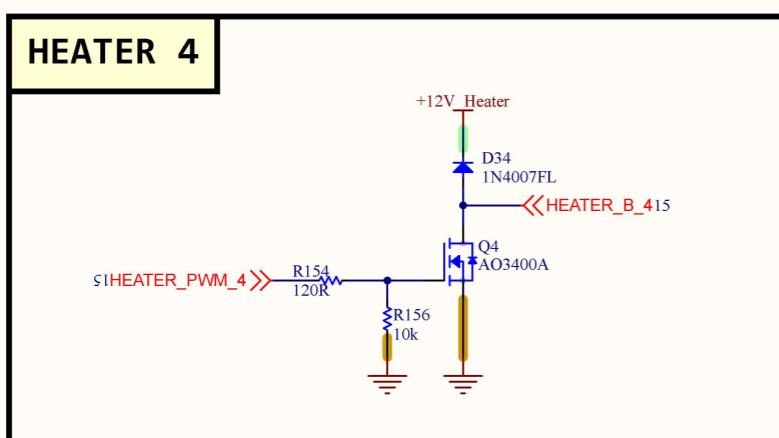
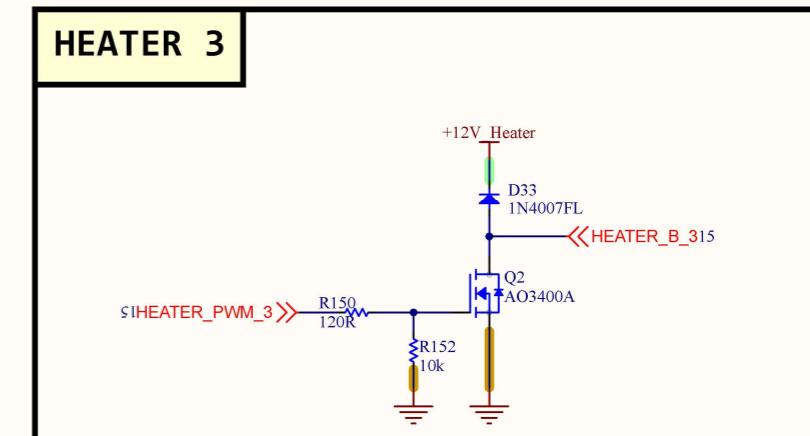
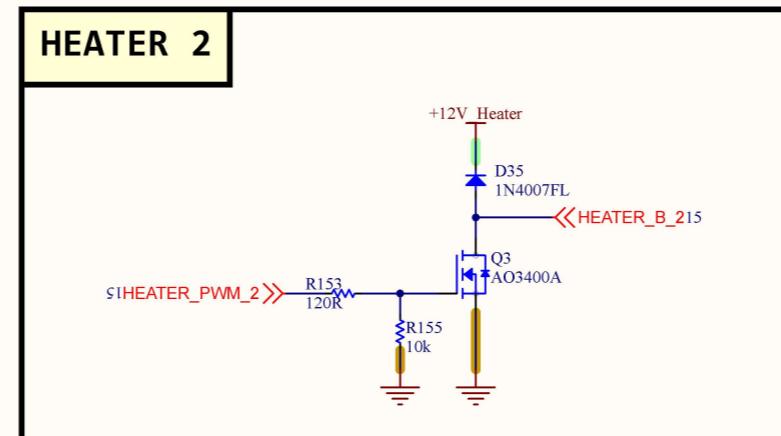
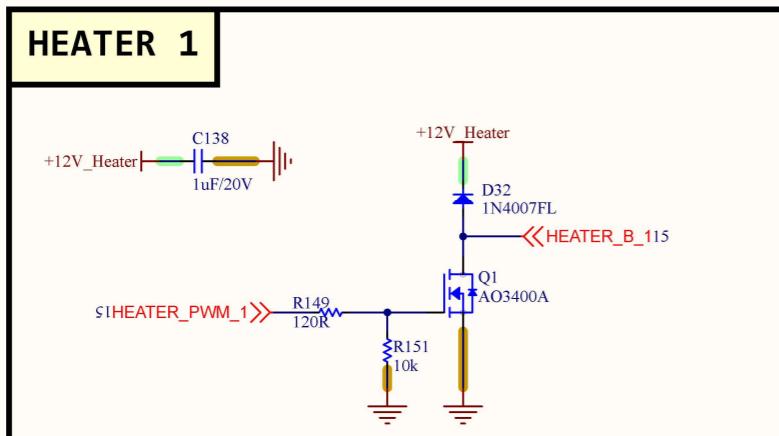
Size: A3

Approved by: Vu Pham

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Check lại, coi lại điện áp 12V được không



Project: SLT 6U Satellite

Sub-system: SLT 6U Satellite

Design by: Cam Doan

Sheet title: HEATER.SchDoc

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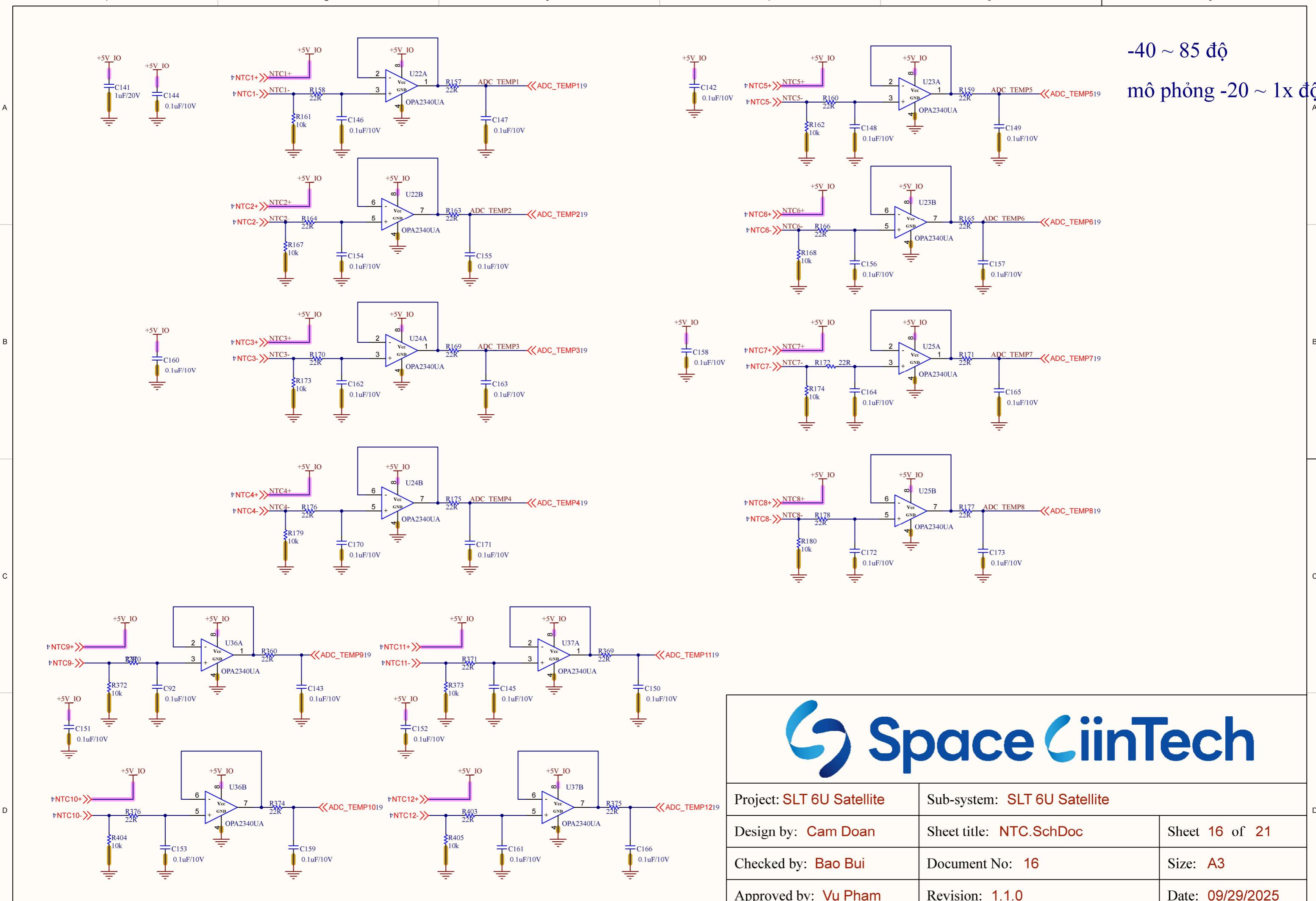
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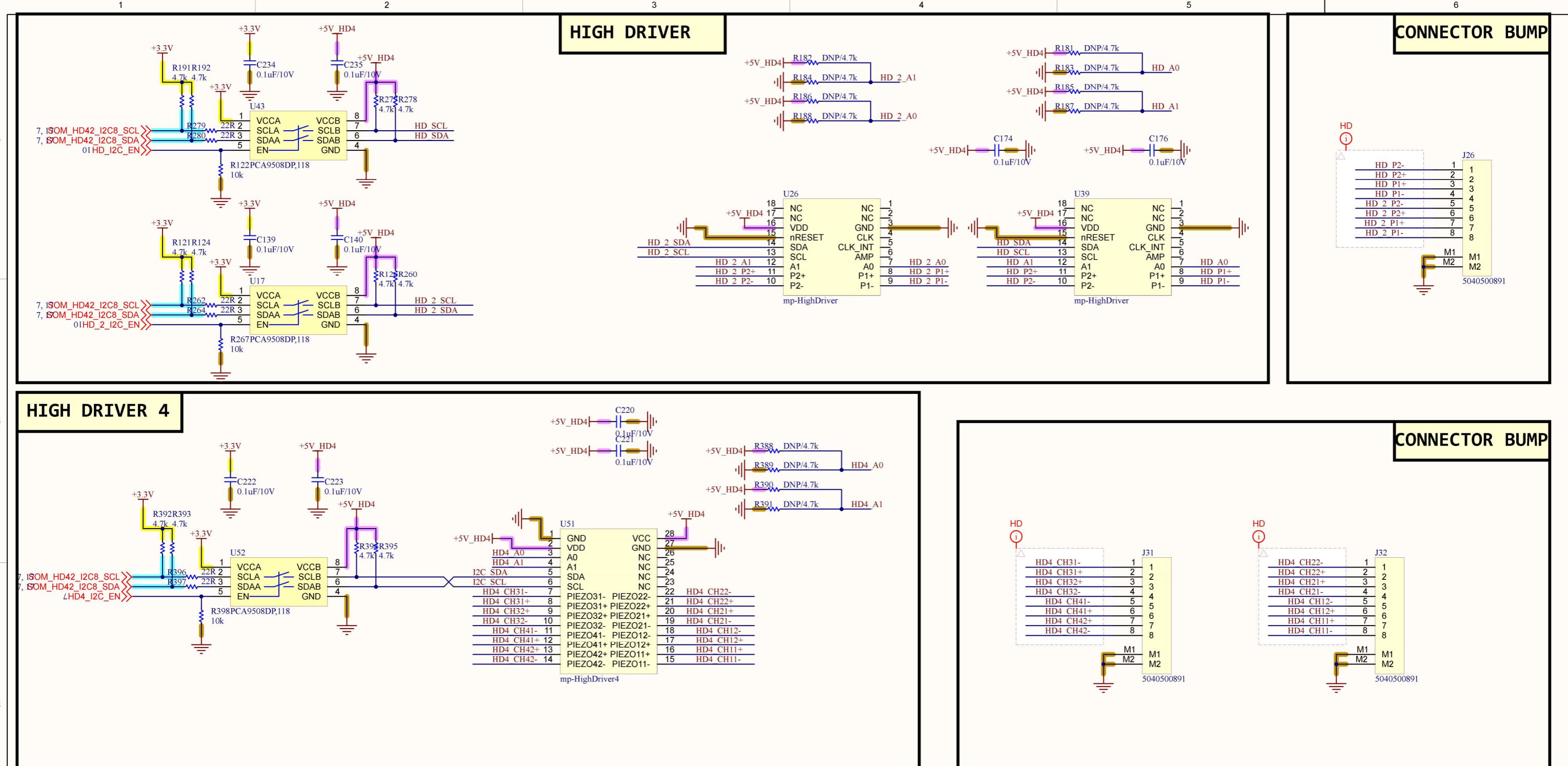
Approved by: Vu Pham

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Date: 09/29/2025

-40 ~ 85 độ
mô phỏng -20 ~ 1x độ





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Design by: Cam Doan	Sheet title: FLUIDIC_CTRL.SchDoc	Sheet 17 of 21
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Approved by: Vu Pham	Revision: 1.1.0	Date: 09/29/2025

SOLENOID x12

A

B

C

D

1

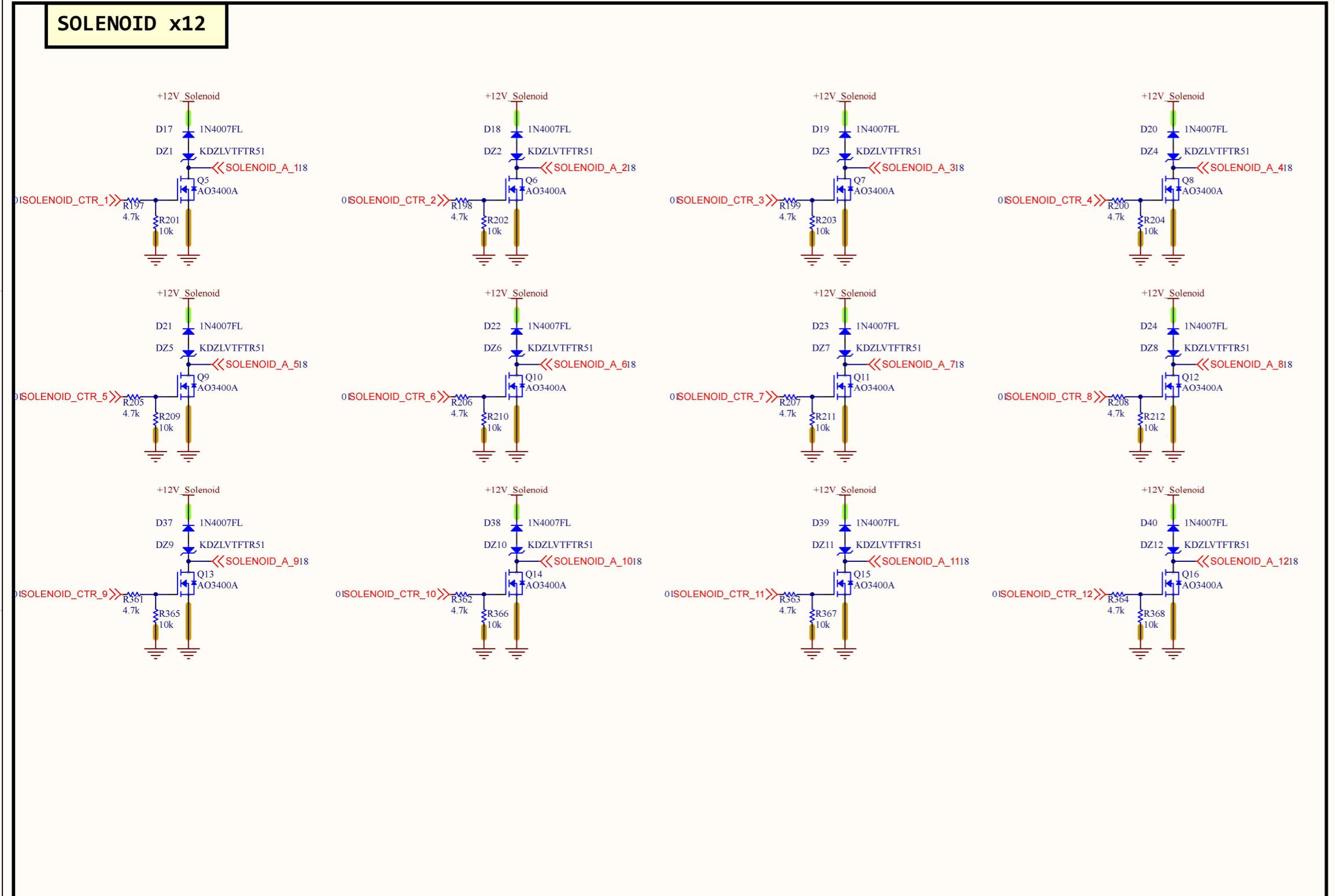
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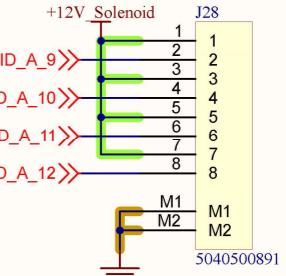
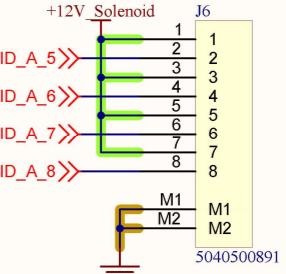
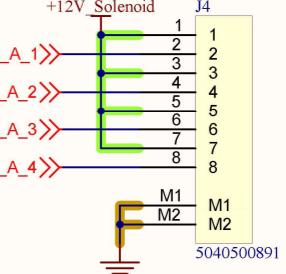
**CONN SOLENOID**

A

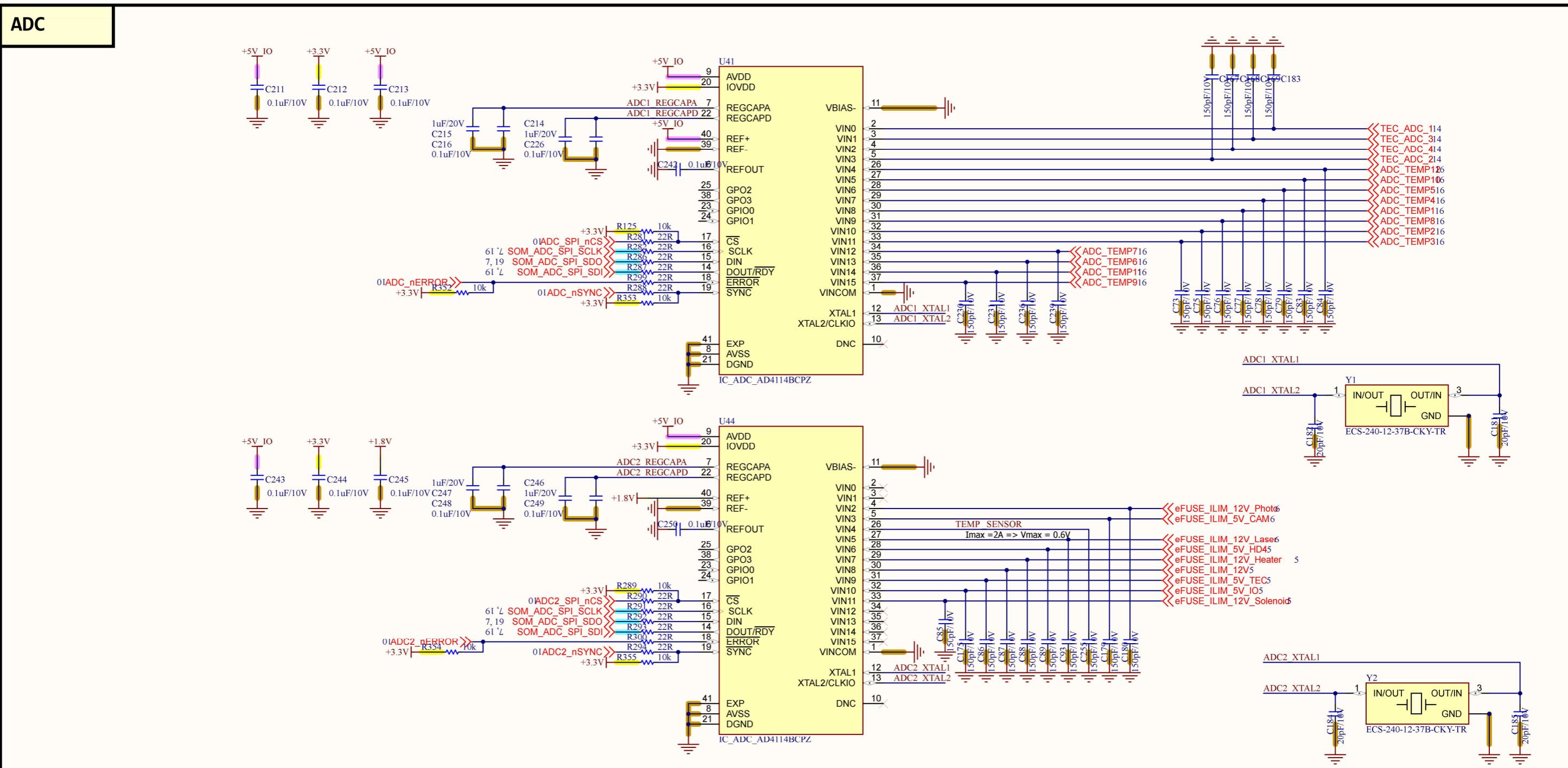
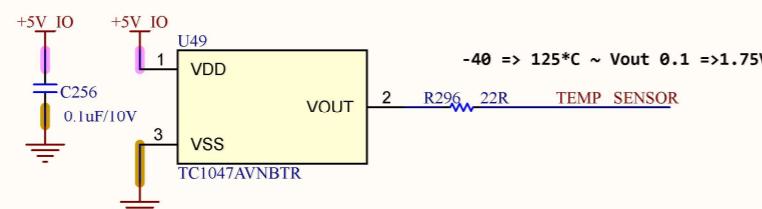
B

C

D



Project: SLT_110.PrjPcb	Sub-system: *
Design by: Cam Doan	Sheet title: * Sheet 18 of 21
Checked by: BAO BUI Q.	Document No: 18 Size: A3
Approved by: VU PHAM	Revision: 1.1.0 Date: 09/29/2025

**TEMPERATURE SENSOR**

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Project: **SLT 6U Satellite**

Sub-system: **SLT 6U Satellite**

Design by: **Cam Doan**

Sheet title: **ADC.SchDoc**

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Checked by: **Bao Bui**

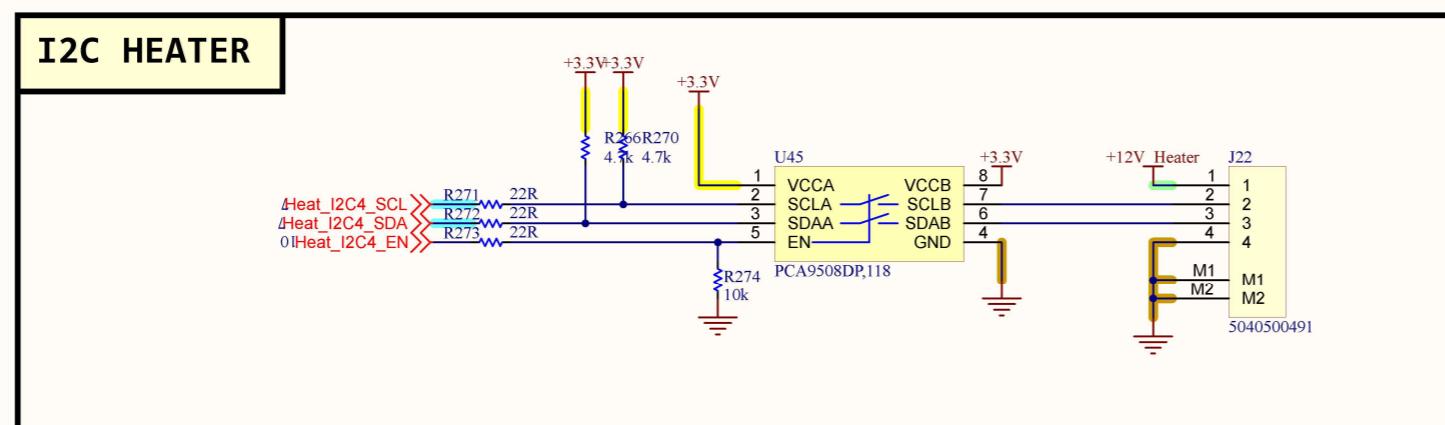
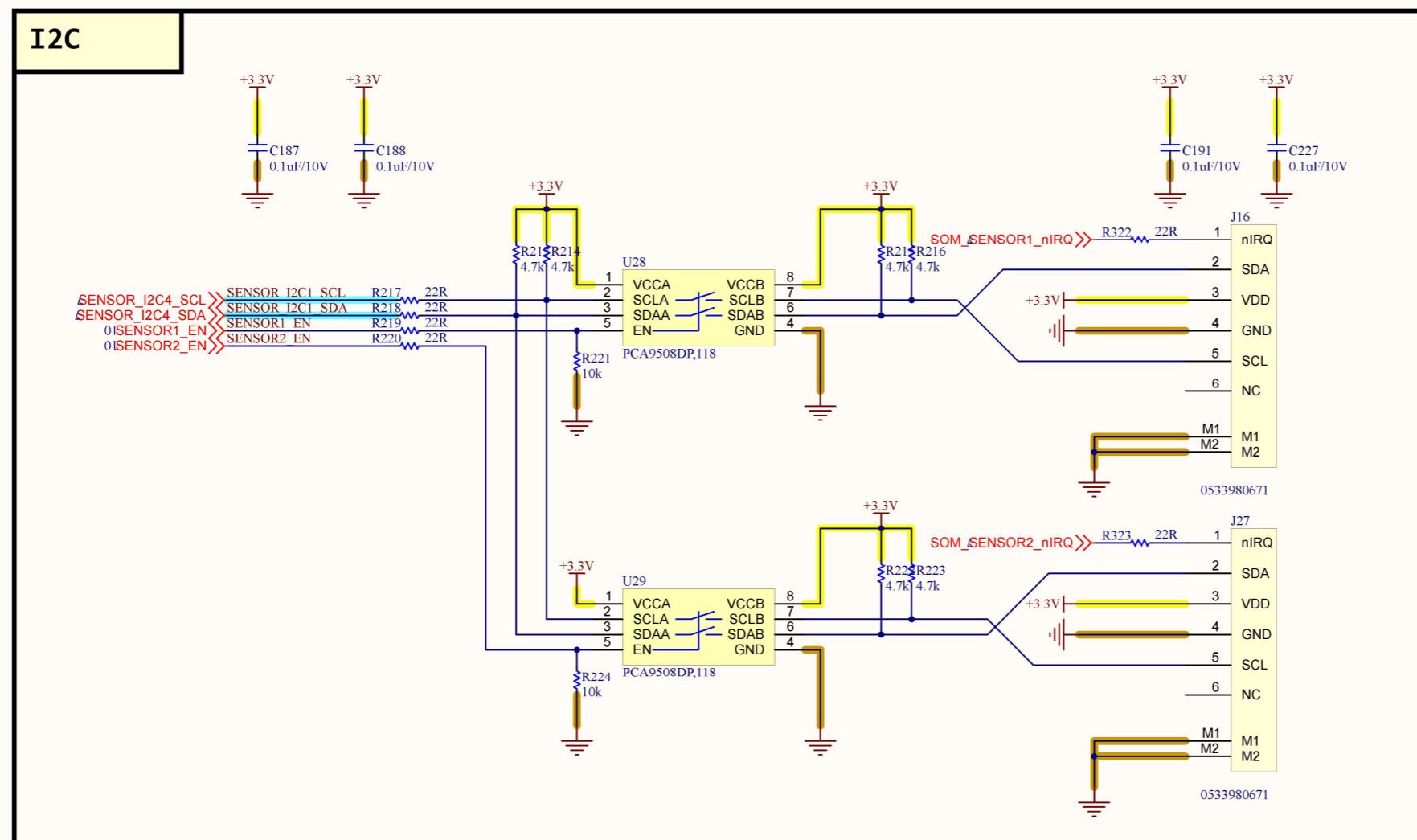
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Size: **A3**

Approved by: **Vu Pham**

Revision: **1.1.0**

Date: **09/29/2025**

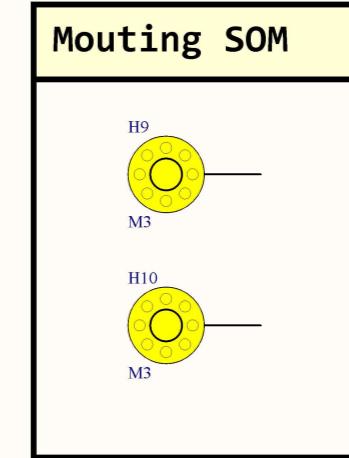
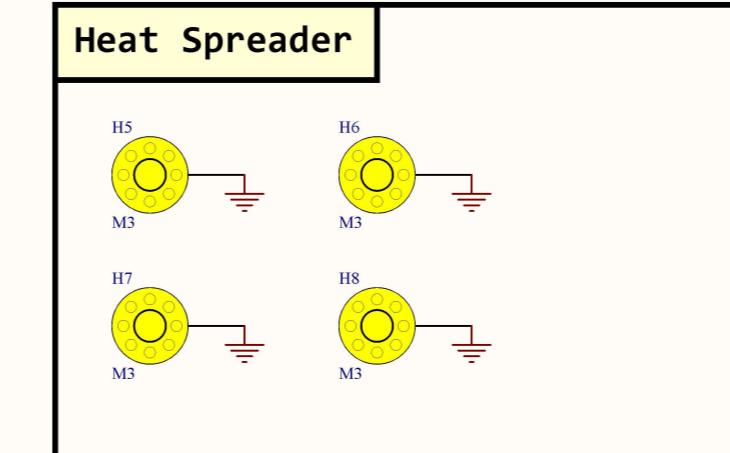
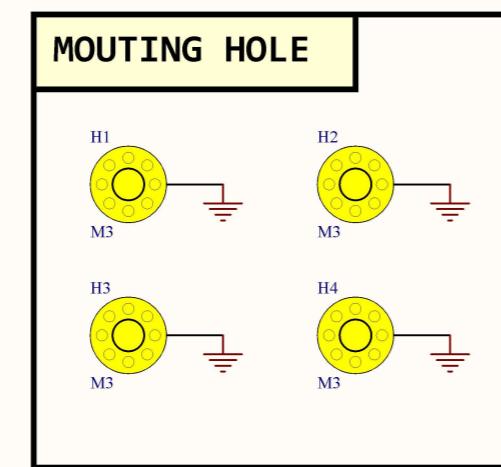


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Project: SLT 6U Satellite	Sub-system: SLT 6U Satellite
Design by: Cam Doan	Sheet title: I2C_Sensor.SchDoc
Checked by: Bao Bui	Document No: 20
Approved by: Vu Pham	Revision: 1.1.0
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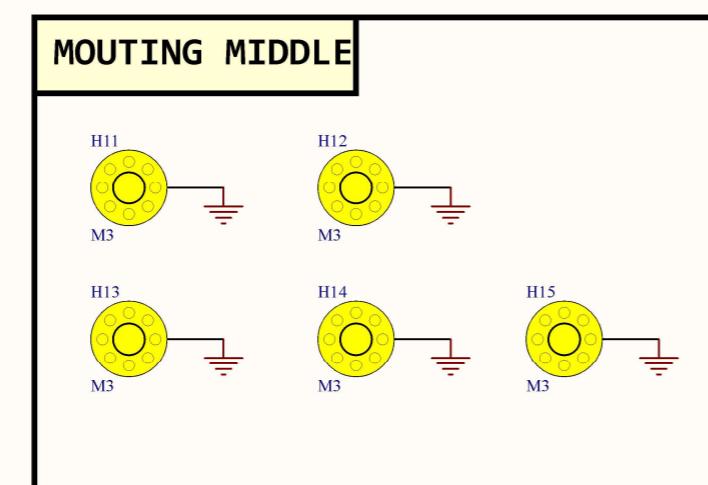
A

A



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C

Project: **SLT_110.PrjPcb**

Sub-system: *

Design by: **Cam Doan**

Sheet title: *

Sheet **21** of **21**Checked by: **BAO BUI Q.**Document No: **21**Size: **A3**Approved by: **VU PHAM**Revision: **1.1.0**Date: **09/29/2025**