AstraControl

23 June 2024

In review

ESP32 Based control PCB for other light fixture pcbs.

Features

- 5V 10A Input
- USB C
- External WiFi Antenna
- 5Mbps RS485 (half-duplex)
- ESP32
- I2C Auxilary
- GPIO Breakout
- Button
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File: overview.kicad_sch

File: block_diagram.kicad_sch

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Board Name Project Name Company Sheet Title Sheet Path File Name Date Revision Size Sheet

AstraControl AstraBeam LiveAstra Technologies AstraControl - Root / AstraControl.kicad_sch 2024-08-26 A A4 1 of 16

Overview 22 April 2024

Page Description

Page Description

- 1 Cover
- 2 Overview
- 3 Block Diagram
- 4 MCU Power
- 5 MCU
- 6 LED Drivers

7 Misc

Render placeholder

Notes

• Components marked with will not be fitted.

Design Considerations

Information

Generic information box to inform about

Generic information box to inform about specifics of the part or layout, notes, Project Name

Caution

Extra care is required here. Pay attention to details, routing, and try your best to follow the advice.

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Critical

It is critical to follow the instructions here. Failure to do so will result in poor performance of failuire.

AstraControl - Root /Overview/

File Name Date

overview.kicad sch

Revision Size
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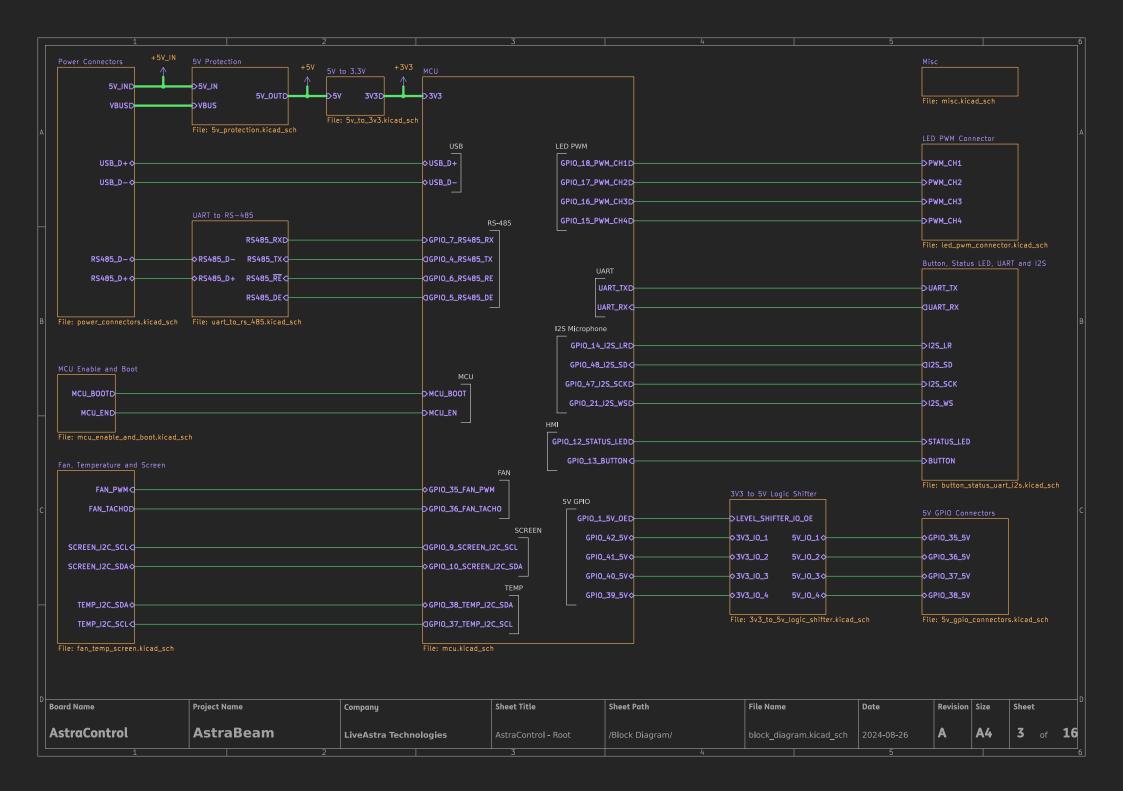
2 of **16**

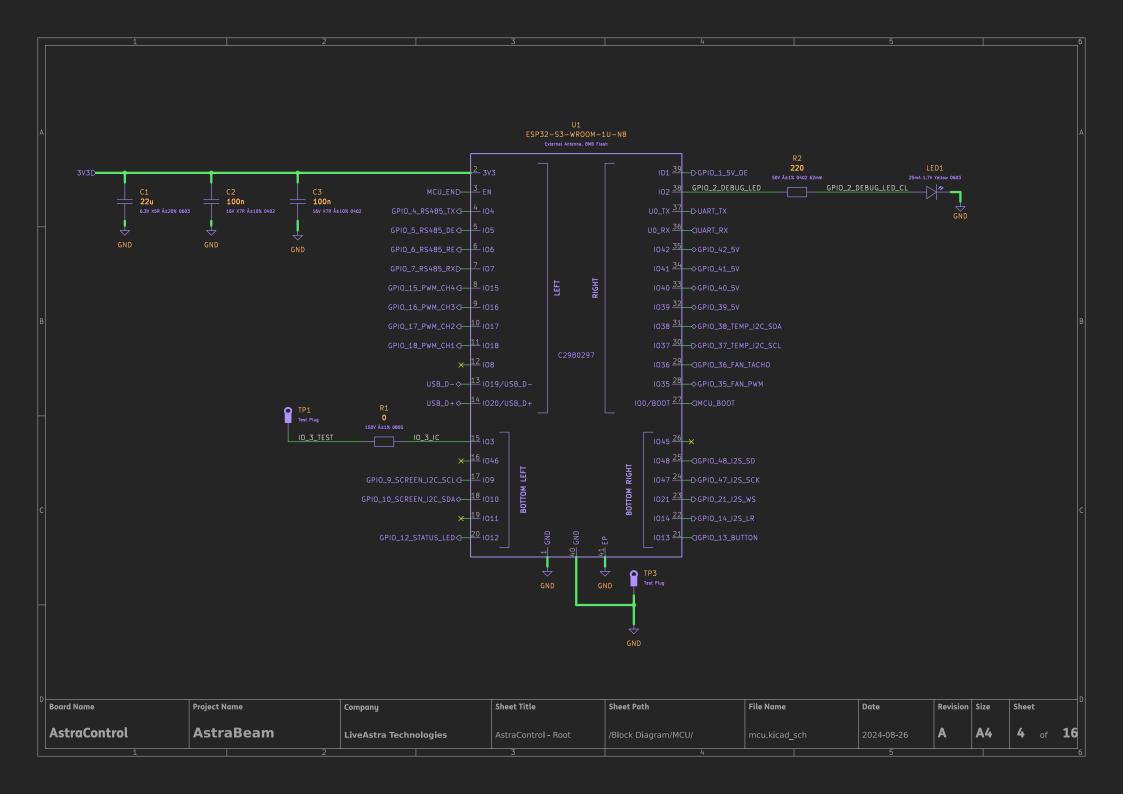
AstraControl

AstraBeam

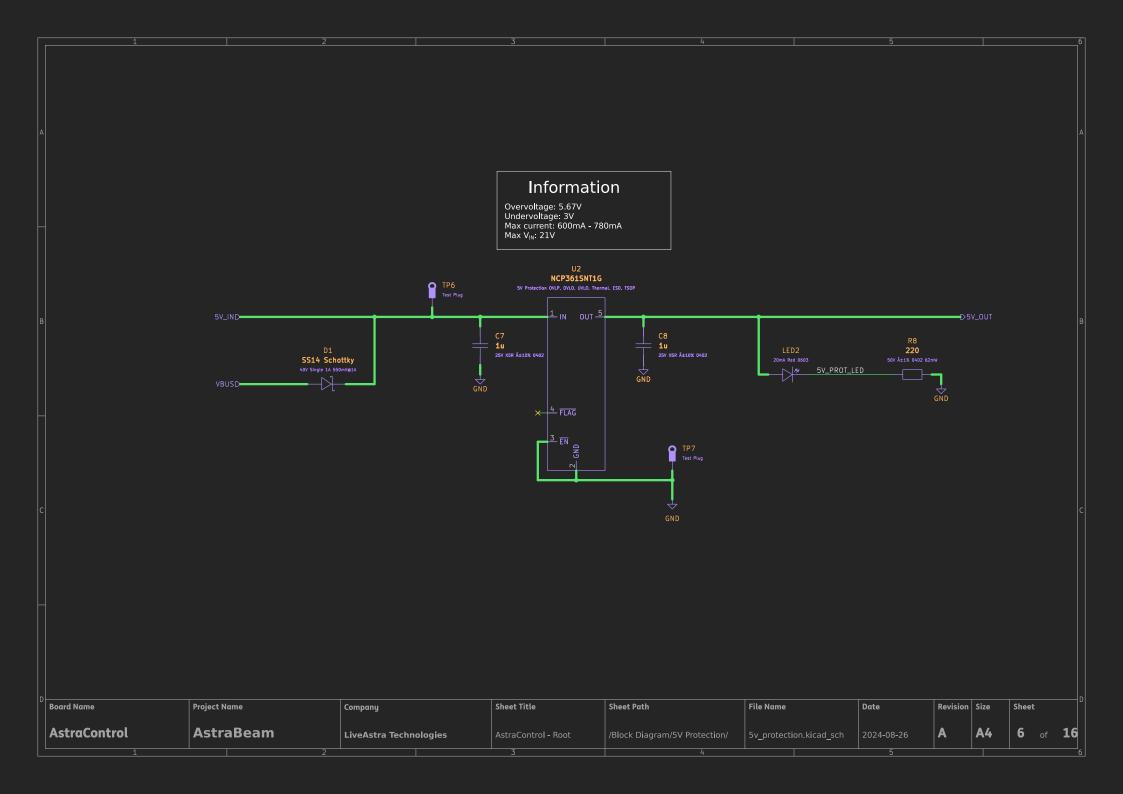
LiveAstra Technologies

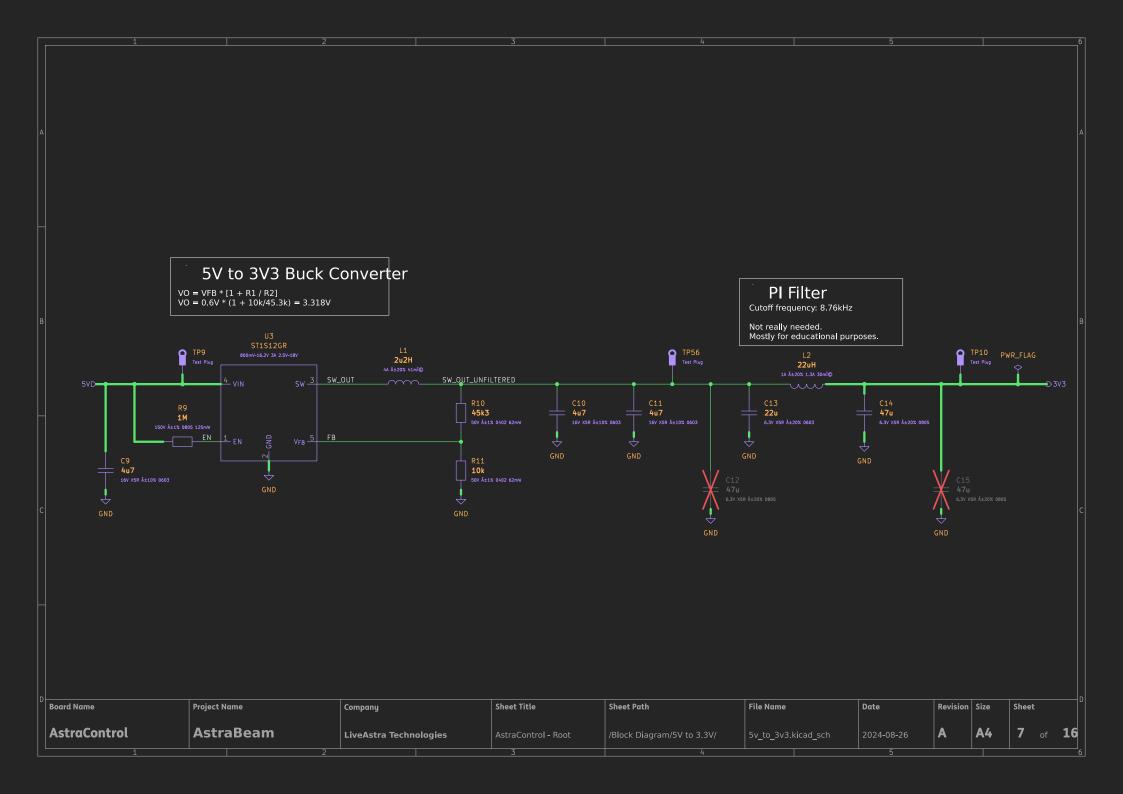
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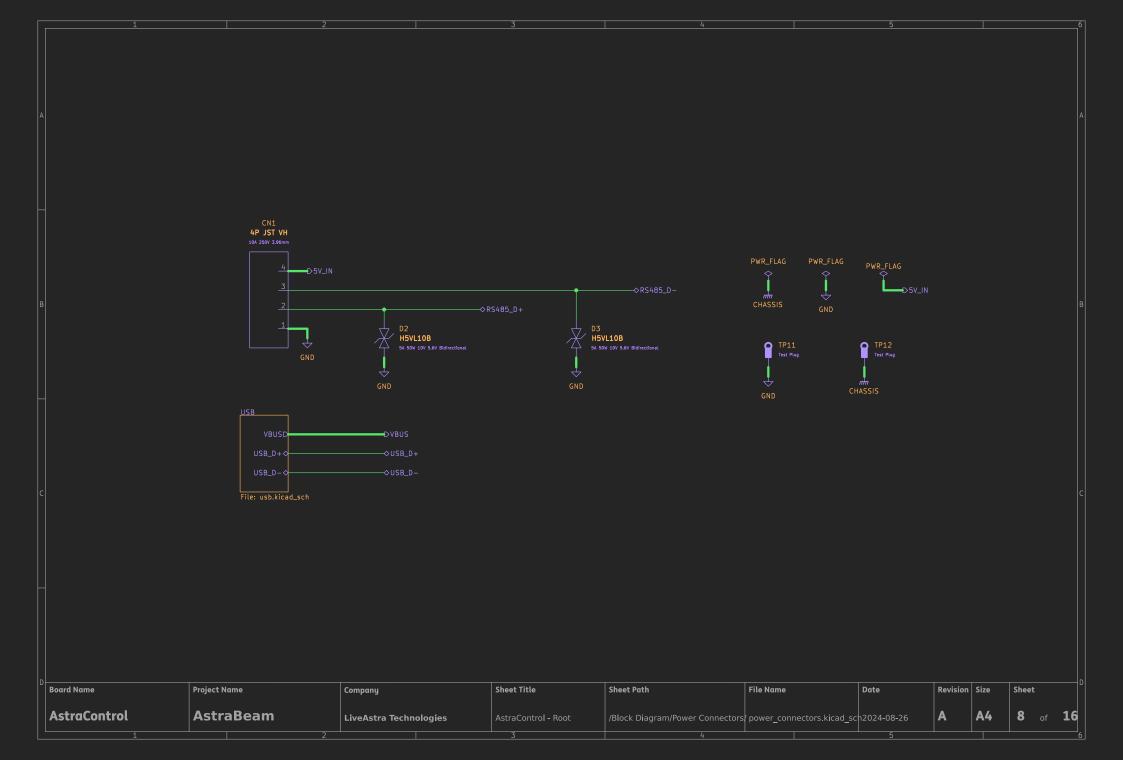


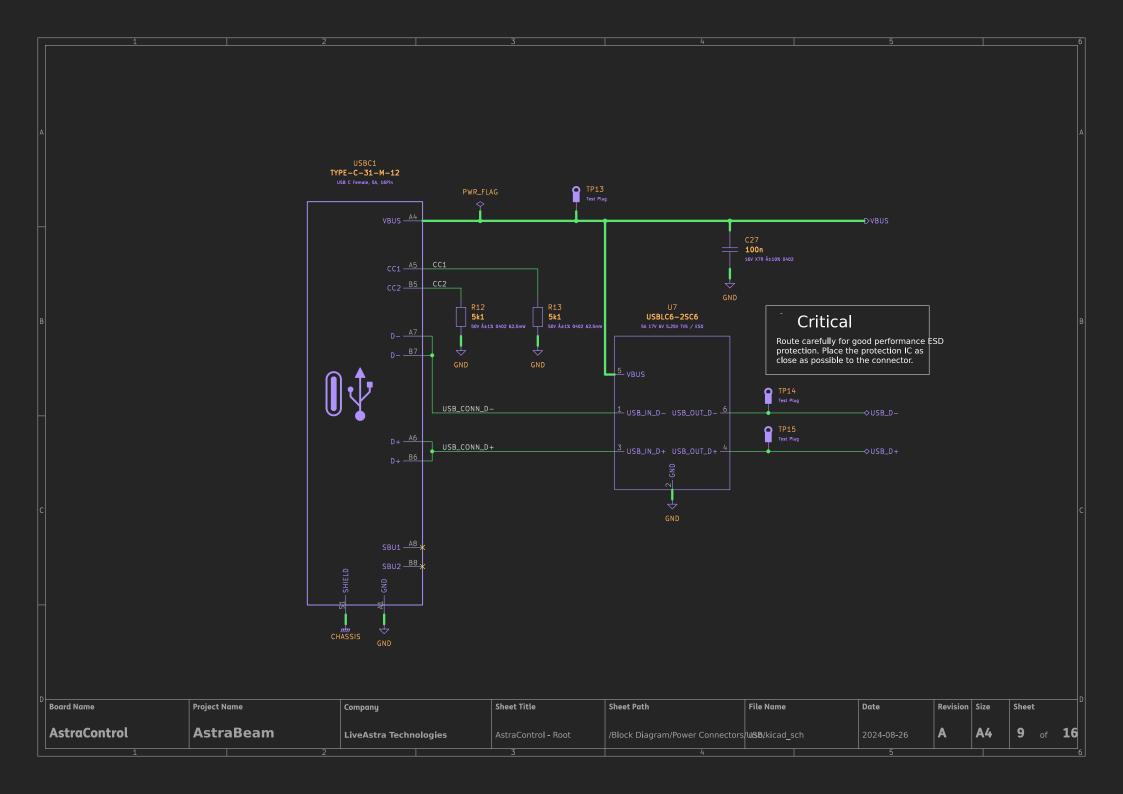


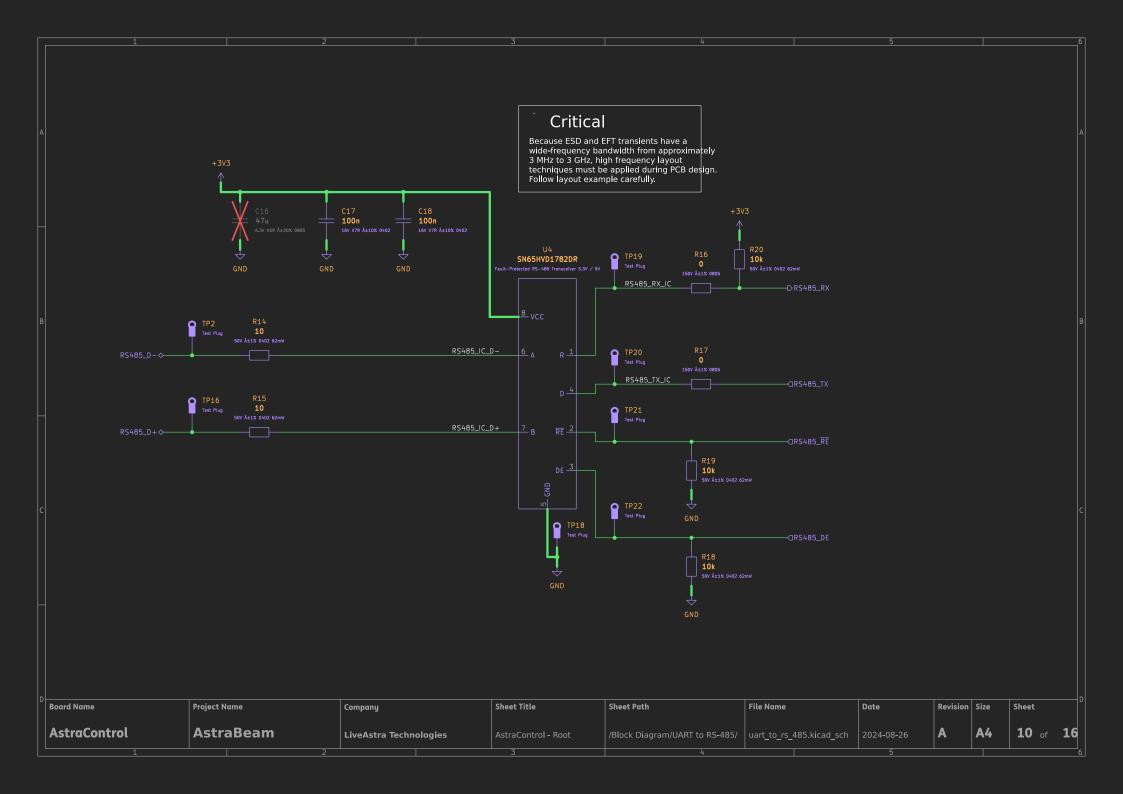
Information To ensure that the power supply to the ESP32-S3 chip is stable during power-up, it is advised to add an RC delay circuit at the EN pin. R4 **10k** EN_DELAY_0 EN_DELAY O TP4 Test Plug 50mA 12V 5.1mmx1.5mm EN_SW C5 **100**n BOOT_SW Sheet Title Sheet **Board Name** Project Name Company Sheet Path File Name Date Revision Size A4 **5** of **16 AstraBeam AstraControl** Α /Block Diagram/MCU Enable and Boott/u_enable_and_boot.kicad 2002:4-08-26 LiveAstra Technologies

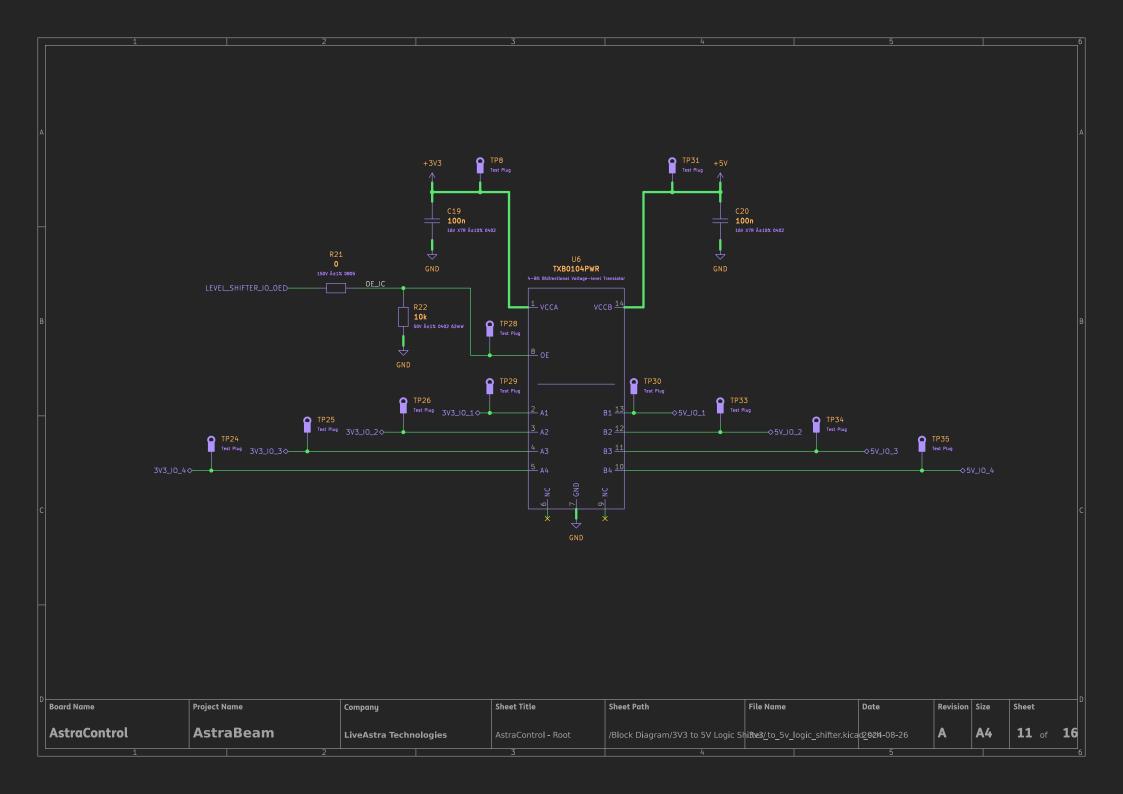


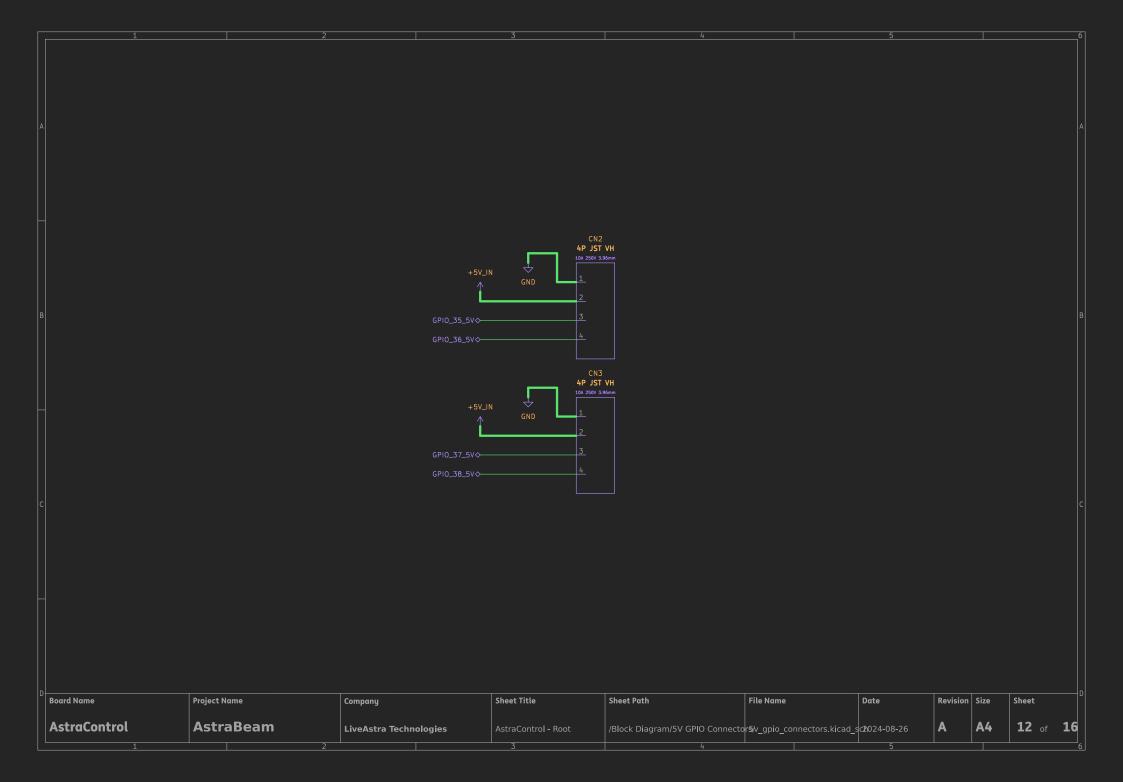


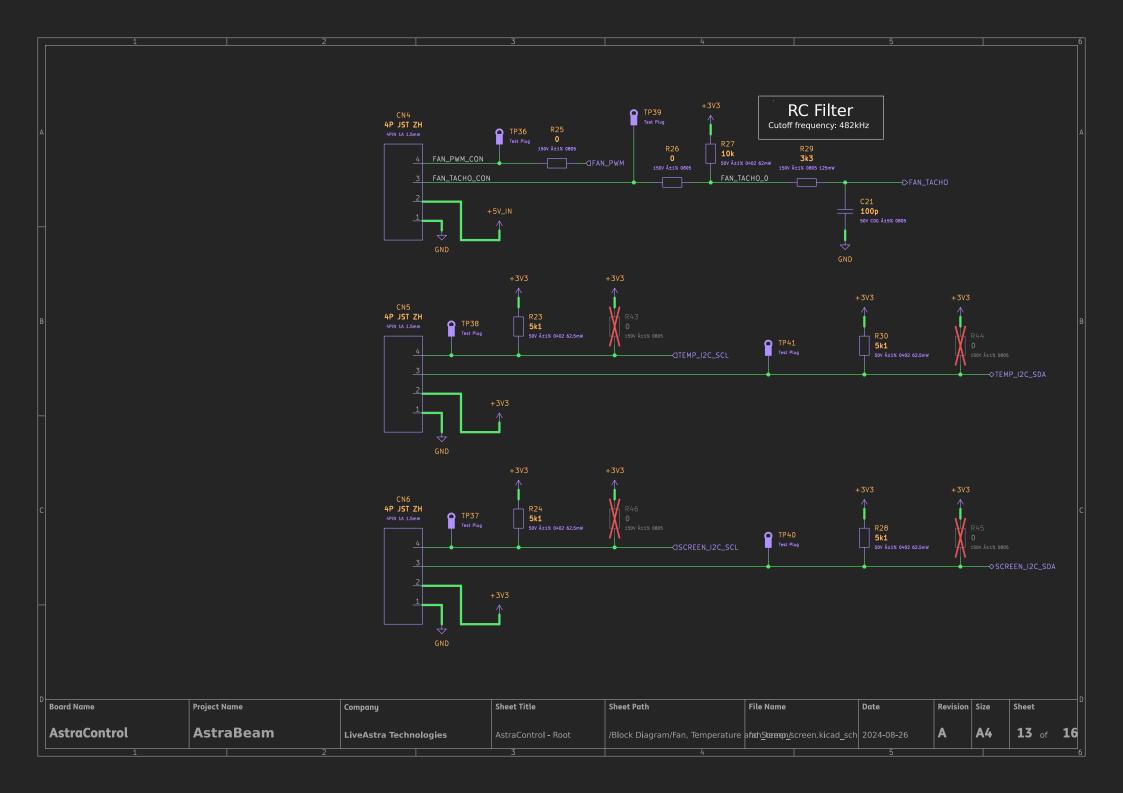


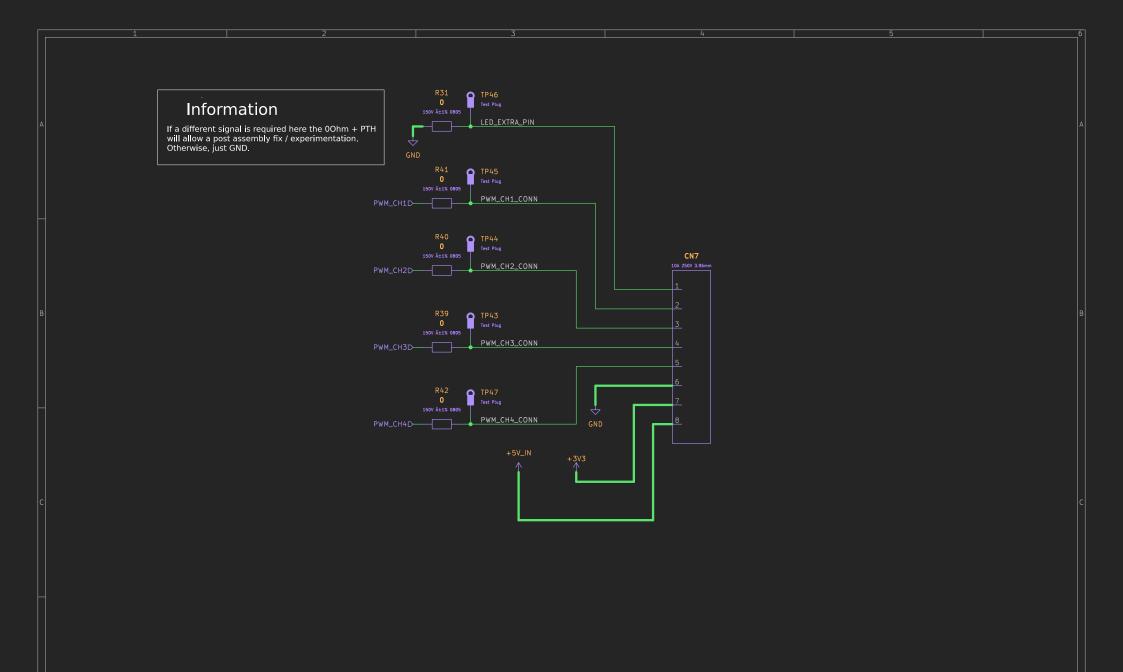












Board Name	Project Name	Company	Sheet Title	Sheet Path	File Name	Date	Revision	Size	Sheet	ر ا
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