Root

REVISION DESCRIPTION DATE APPROVED

RELEASED

SCHEMATIC STATUS: RELEASED

Page

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Index

RS485 Driver

CAN Driver

DALI Driver

LIN Driver

10Hz Astable Osc.

4 x Line LED Indicator

+5VDC Buck Reg.

MECHANICAL PARTS

PWR SEQUENCE

REVISION HISTORY

Page	Index
1	COVER PAGE
2	BLOCK DIAGRAM File: [02] - BLOCK DIAGRAM.kicad_sch
3	MCU Driver
4	USB TO UART Driver
5	USB OTG Port
6	+3.3VDC LDO Reg
7	2/0 Uni—Dir Isolator
8	4 x 1/1 Bi—Dir Isolator
9	I2C Bus Isolator
10	+5V DC/DC Conv.

VARIANT:

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TEMPLATE NOTES

Set Project Parameters

Symbols and Lables

Mark Not Fitted Components as --> **DNF**Differential Signal Example
Net Class Example

SCHEMATIC STATUS:

DRAFT — Very Early Stage of Schematic
PRELIMINARY — Close to Final Schematic
CHECKED — There Should Not Be Any Mistakes

- A Board with This Schematic Has Been Produced

DESIGN CONSIDERATION



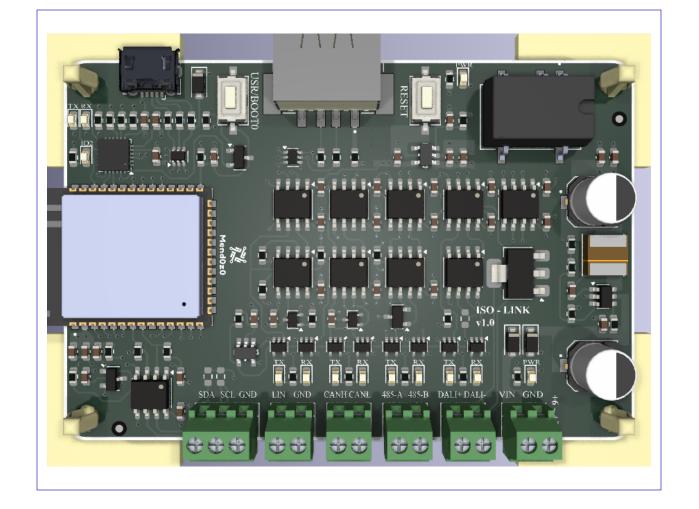
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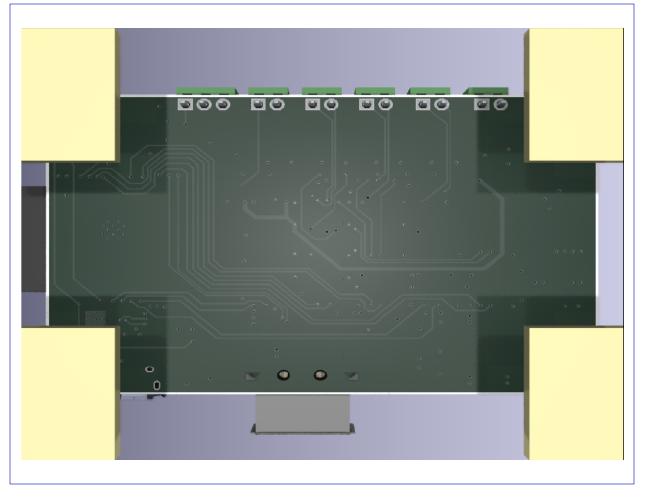




3D Preview TOP



3D Preview BOTTOM



Board Statistics Stackup Info

SHOULD BE ADDED

AFTER RELEASE

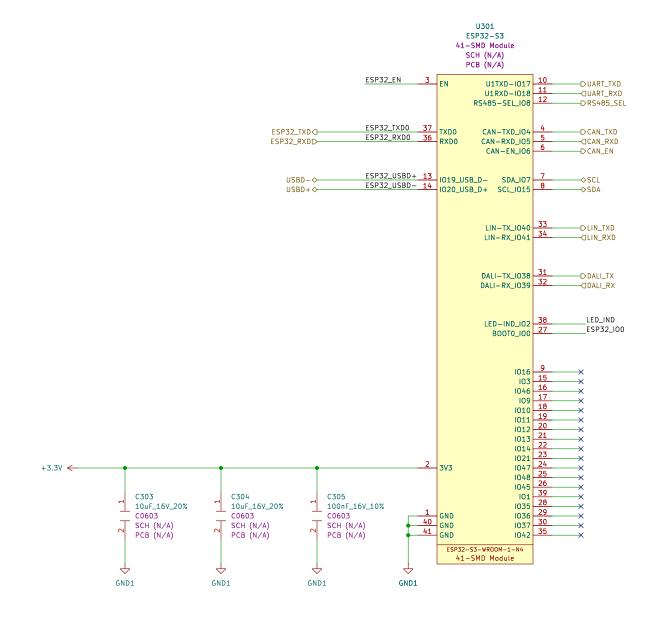
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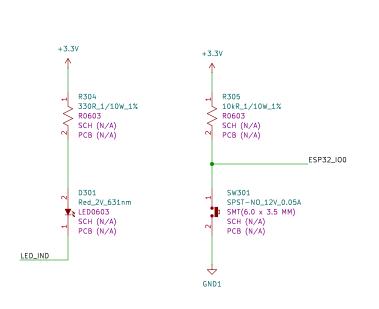
THIS DOCUMENT AND THE DATA DISCLOSED HEREIN OR HEREWITH ARE ALL OPEN—SOURCE AND THERE IS NO RESPONSIBILITY FOR PROBABLE FAILURE OR INJURY REVISION DESCRIPTION BLOCK DIAGRAM RELEASED +5VDC BUCK REG. +3.3VDC LDO REG. +5VDC ISOLATED DCDC +3.3V 20 UIN-DIR ISOLATOR 10Hz ASTABLE OSCILLATOR >IS06520_INA_3.3V >IS06520_INB_3.3V IS06520_0UTA_5VD IS06520_0UTB_5VD 1-1 BI-DIR ISOLATOR RS485 DRIVER >IS06521_INB_3.3V ⟨IS06521_0UTA_3.3\ IS06521_0UTB_5VD IS06521_INA_5V RS485_SELD-CAN_END-File: [11]_RS485 DRIVER.kicad_sch 1-1 BI-DIR ISOLATOR1 → CLOCK → ATA6561_STBY → ATA6561_TXD — □ ATA6561_RXD IT DOESN'T SUPPORT CANFD!!! IS06521_0UTB_5VD IS06521_INA_5V< USB to UART Bridge File: [08]_1-1 BI-DIR ISOLATOR.kicad_sch File: [12]_CAN DRIVER.kicad_sch CP2105_RXD C CP2105_TXDD CP2105_RTSD CP2105_DTRD GESP32_TXD DESP32_RXD 1-1 BI-DIR ISOLATO >IS06521_INB_3.3V ⟨IS06521_0UTA_3.3\ File: [04]_USB to UART Bridge.kicad_sch File: [03]_MCU Driver.kicad_sch File: [13]_LIN DRIVER.kicad_sch 1-1 BI-DIR ISOLATOR3 >IS06521_INB_3.3V CIS06521_OUTA_3.3V I2C BUS ISOLATOR APPROVALS ENG: Siavash Taher Parvar DSN: Siavash Taher Parvar Mend0z0 CHK: Siavash Taher Parvar REFERENCE DOCUEMNTS Find the SCH Ref. DOC.: [02] - BLOCK DIAGRAM.kicad_sch Right License? BOM Ref. DOC.: PCB Ref. DOC.: FILE NAME: [02] - BLOCK DIAGRAM.kicad_sch GBR Ref. DOC.: SHEET 2 OF 24 SIZE: C SCALE: 1:1 VARIANT NAME: ASM Ref. DOC.:

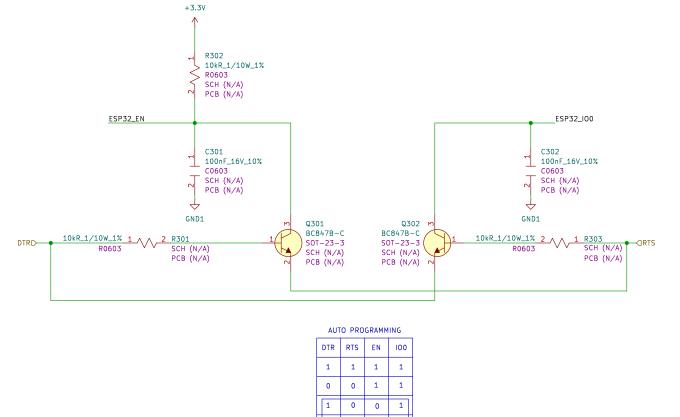
MCU Driver

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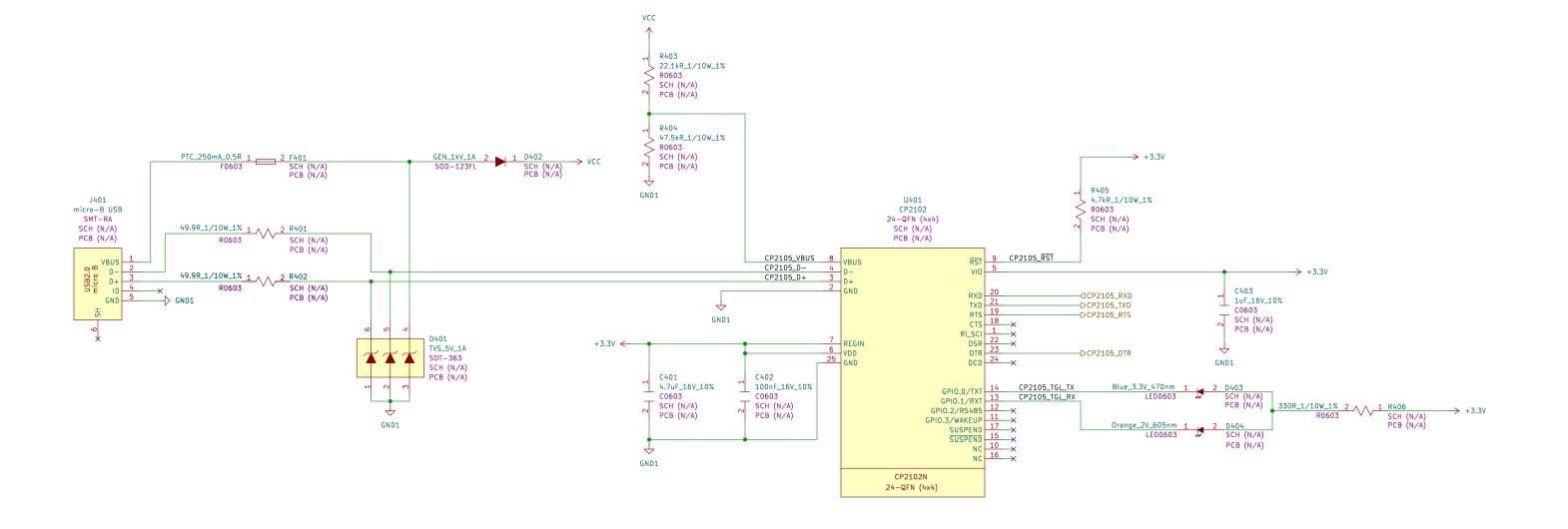
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USB to UART Bridge

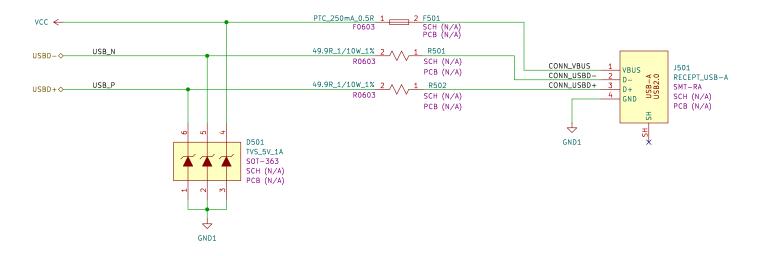
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USB OTG

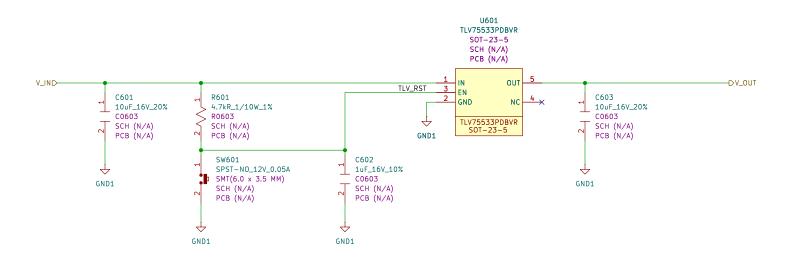
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+3.3VDC LDO REG.

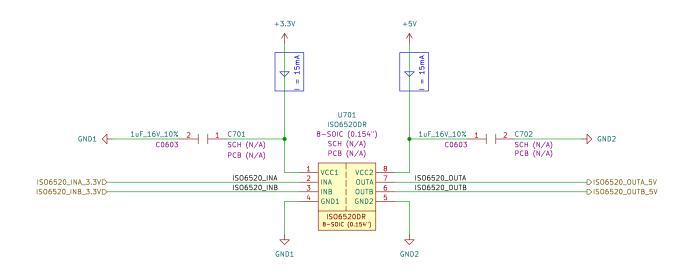
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20 UIN-DIR ISOLATOR

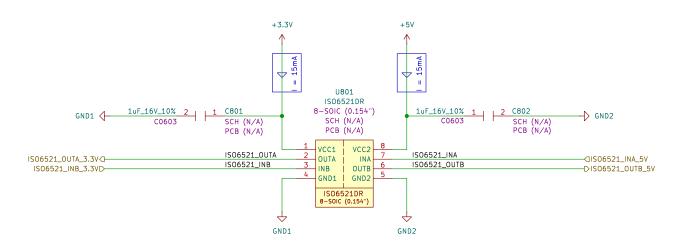
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1-1 BI-DIR ISOLATOR

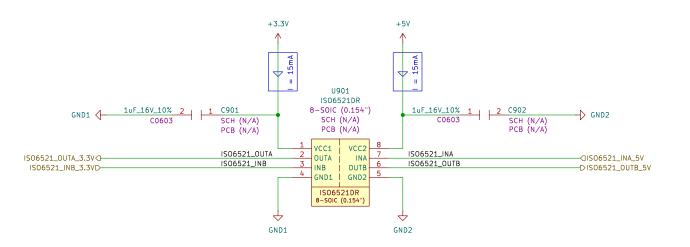
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1-1 BI-DIR ISOLATOR1

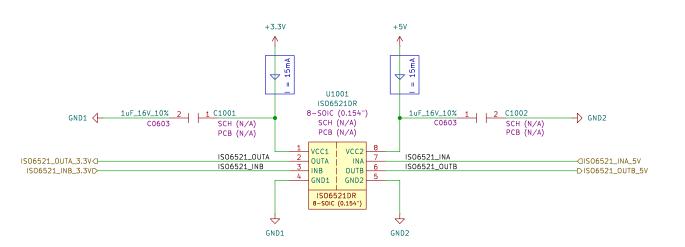
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1-1 BI-DIR ISOLATOR2

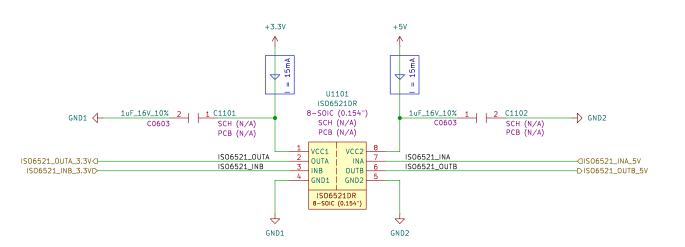
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1-1 BI-DIR ISOLATOR3

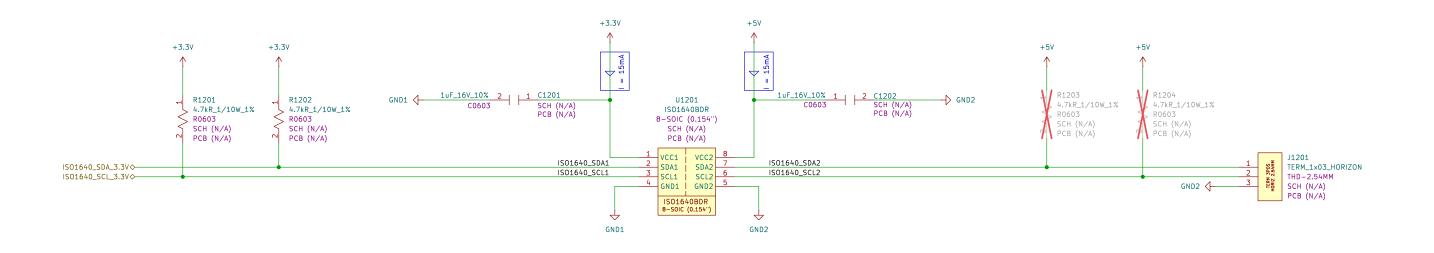
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12C BUS ISOLATOR

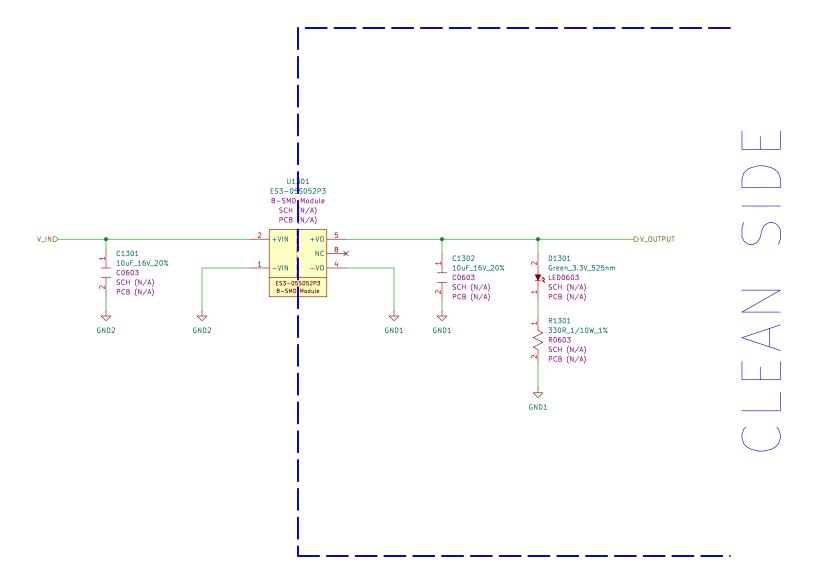
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+5VDC ISOLATED DCDC CONV.

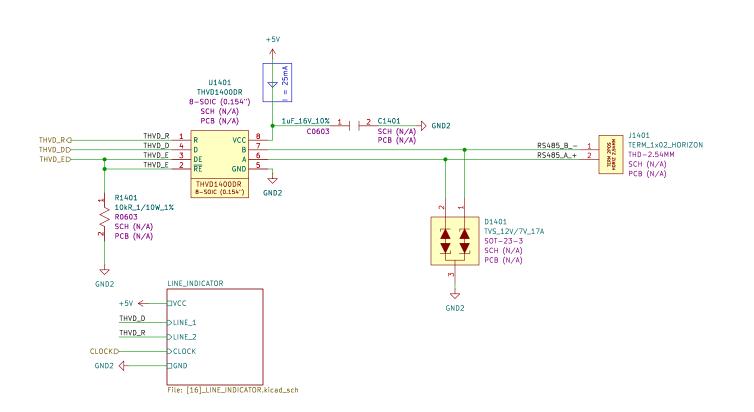
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RS485 DRIVER

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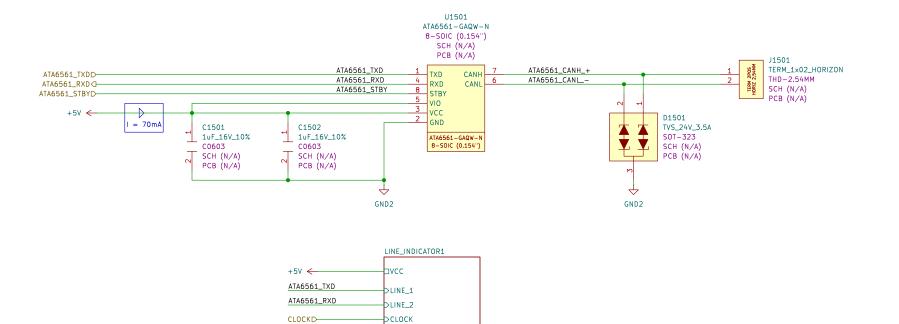


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CAN DRIVER

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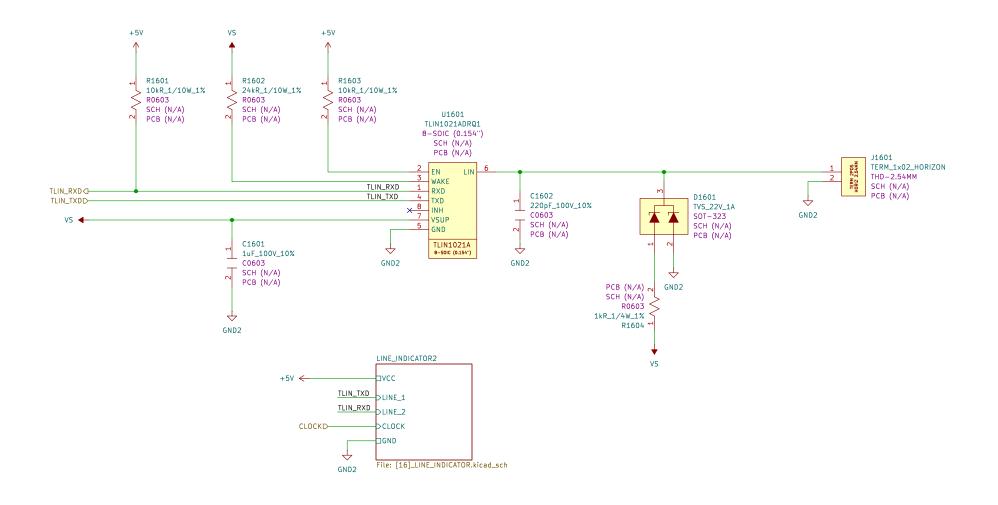
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GND2

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LIN DRIVER

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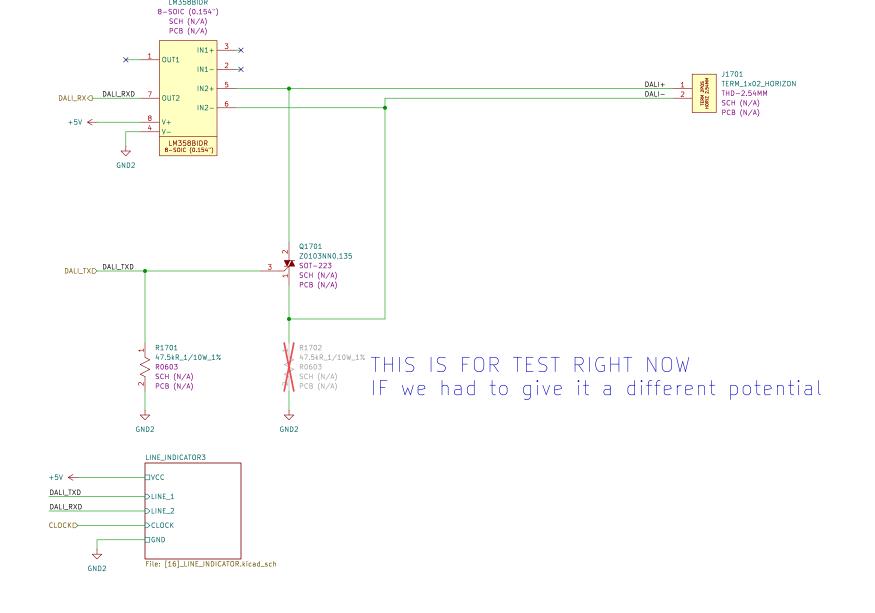
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DALI ISOLATOR

SAMPLE1701

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DALI SPEC. IEC60929 • Short specification - Maximum 64 individual addressable ballasts within one system - The ballast can not act as a master controller - Multiple ballast groups - Bi-phase coding for error detection (see £.4.3.6, Pulse diagram) - Asynchronous start--stop transmission protocol - Low information rate: 1 200 bit/s - Allowed cable voltage drop: 2 ∨ - No ground-loops because of isolation in the ballast The tolerance at all mentioned timing specifications in this document shall be ±10 % if minimum/maximum are not specified. Impedance control terminals (see Figure E.1): Rin ≥ 8 KΩ static at typical high input voltage Cin ≤ 1 nF Lin ≤ 1 mH The robustness can be increased with the optional implementation of: - polarity insensitive interface input: - overvoltage protection for accidental mains voltage between the control wires. - Transmission characteristics The transmission rate, expressed in bandwidth, is specified with 1 200 Hz for the forward channel and for the backward channel. All specified voltage and current levels refer to the terminals of the electronic ballast. Voltage rating (IEC60929) In general, the interface voltage is high if there is no communication (idle state). The slopes of the received and transmitted data signal shall be 10 us ≤ tfall ≤ 100 μs and 10 μs ≤ trise ≤ 100 μs at the ballast terminals of the digital interface. The voltage range shall be between 9.5 V and 22.5 V for "high levet" and between −6.5 V and +6.5 V for "low levet" respectively. Between 6.5 V and 9.5 V, the levet is undefined. Current rating (IEC60929) In non-active state, the sink current of the ballast shall not exceed 2 mA at ≤22.5 V because of the actual maximum number of ballasts per control unit. This shall be guaranteed by each ballast manufacturer. The ballast shall be able to sink at least 250 mA at ≤ 4.5 V at active state. The ballast shall keep the interface voltage lover than 4.5 V. The interface power supply shall limit the supply current to max. 250 mA under all circumstances. This curr

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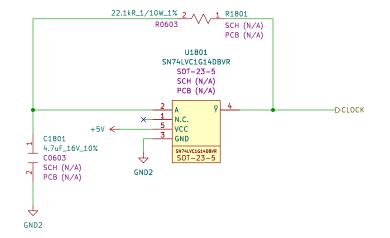
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10Hz ASTABLE OSCILLATOR

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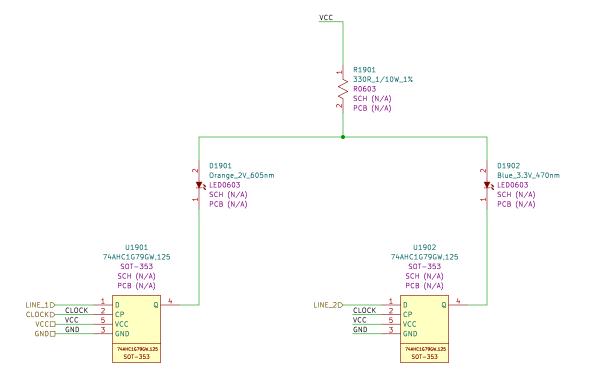
expecting around 10Hz output formula is a simple RC charge curve in considering the schmit triger lvl



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LINE_INDICATOR

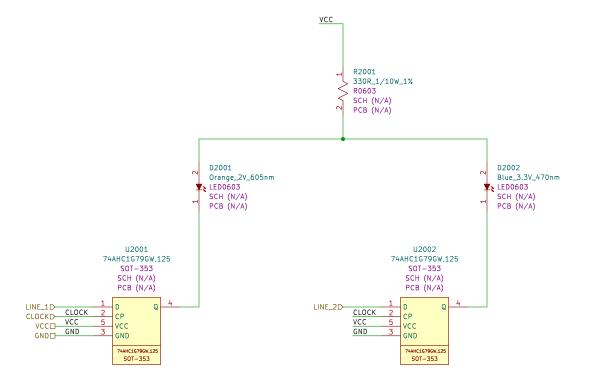
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LINE_INDICATOR1

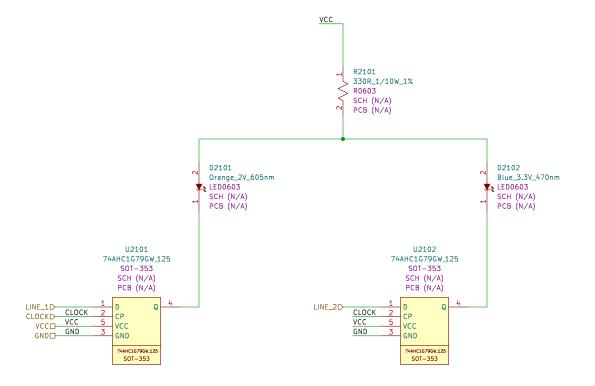
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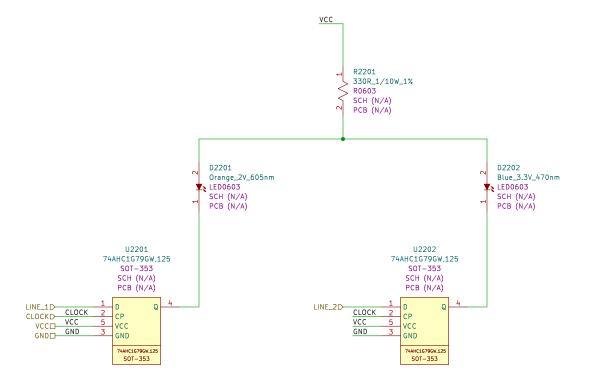
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LINE_INDICATOR3

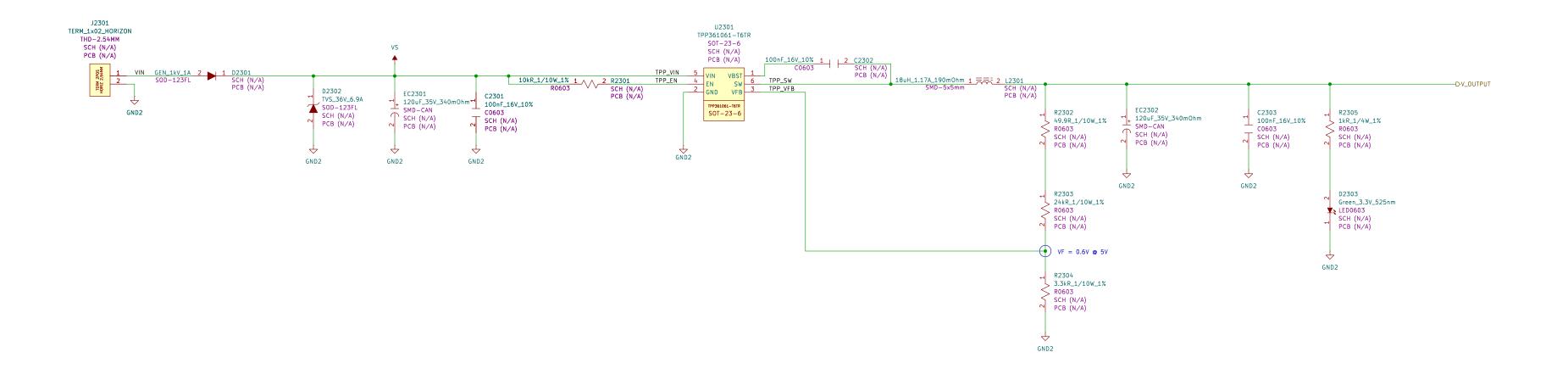
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+5VDC BUCK REG.

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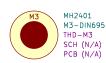
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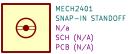




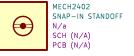














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