

Sheet: USB-TYPE-C

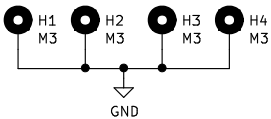


File: USB-TYPE-C.sch

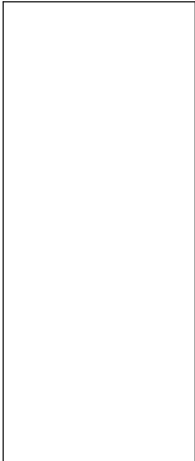
Sheet: INPUTS



File: INPUTS.sch

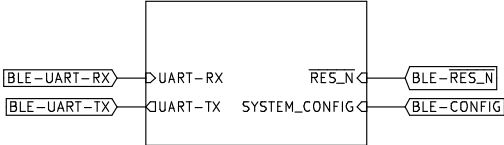


Sheet: MCU



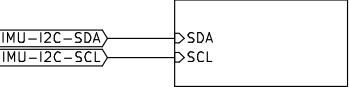
File: MCU.sch

Sheet: BlueTooth



File: BlueTooth.sch

Sheet: IMU



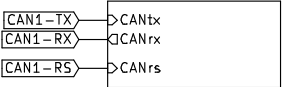
File: IMU.sch

Sheet: SD-CARD



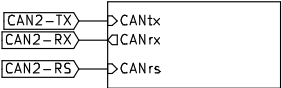
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Sheet: CAN1



File: CAN.sch

Sheet: CAN2



File: CAN.sch

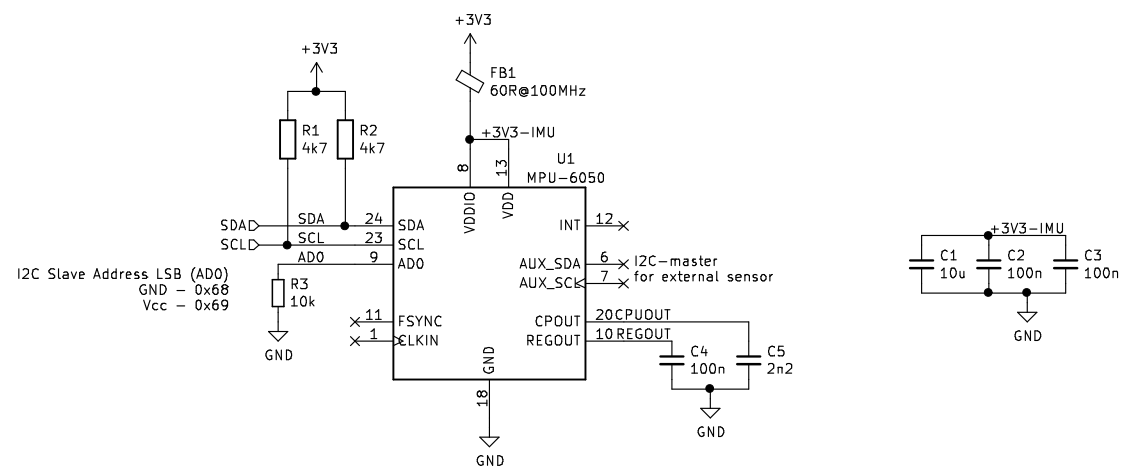
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File: MainControllerUnit.sch

Title:

Size: A4
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Date:

Rev:
Id: 1/24

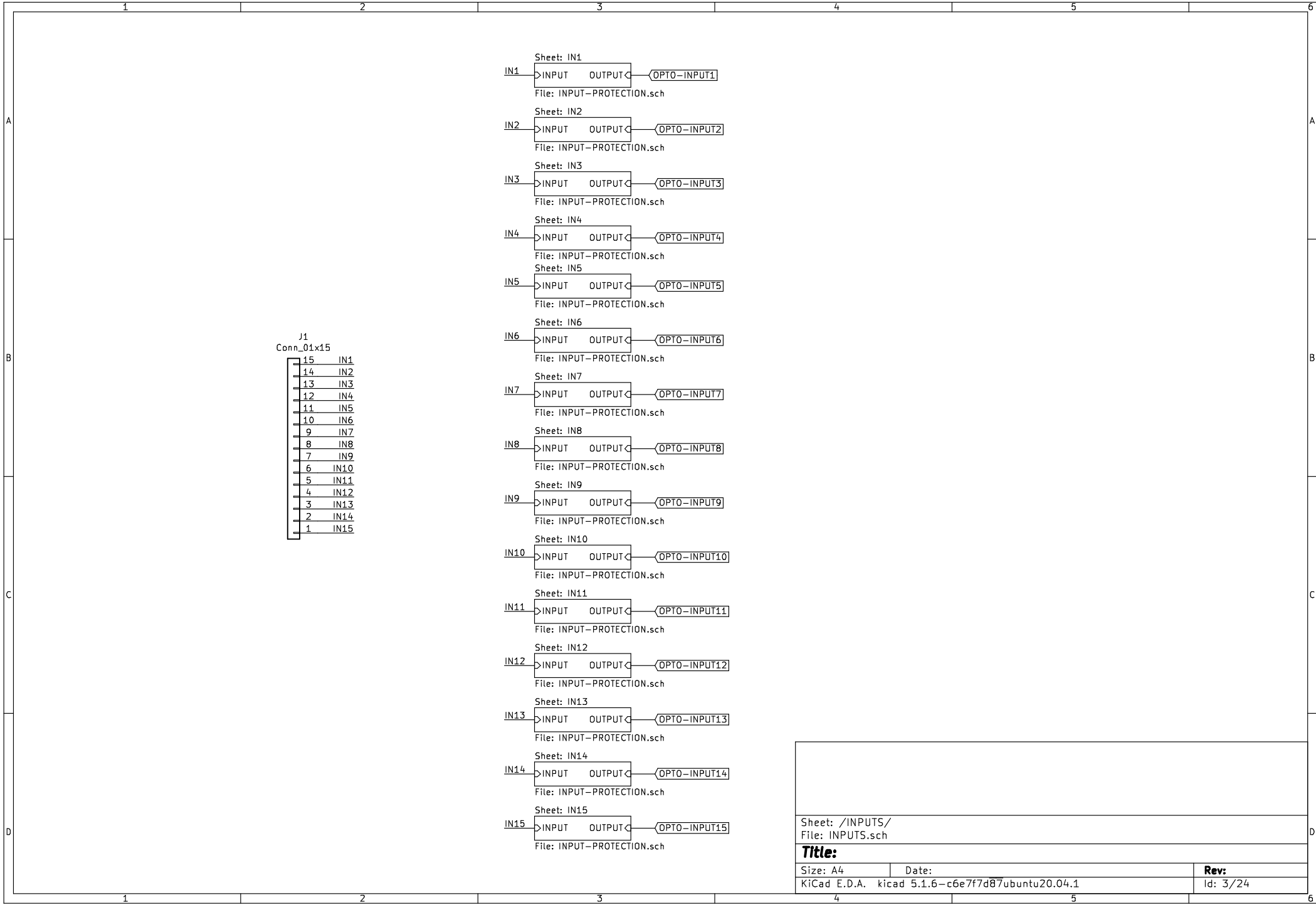


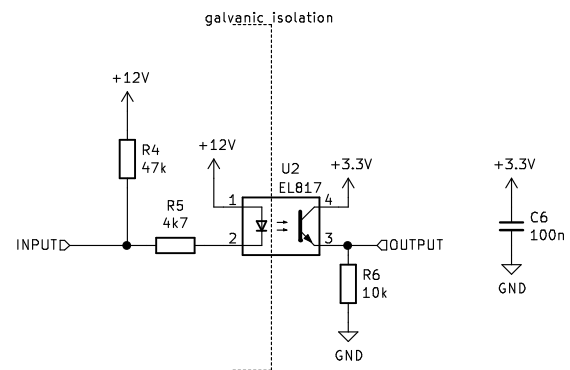
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Title:

Size: A4
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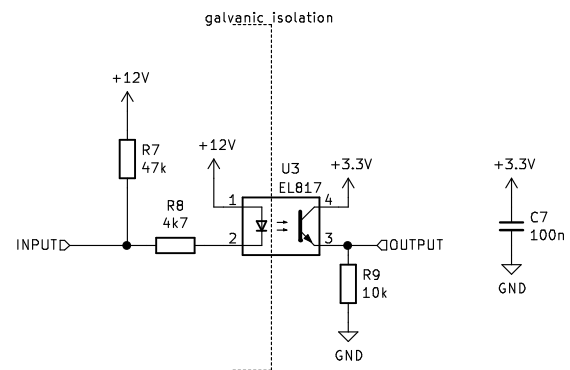
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN1/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

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Id: 4/24



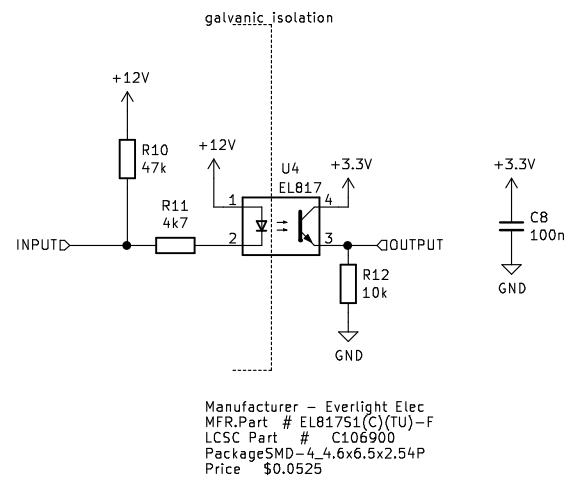
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN2/
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Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

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Id: 5/24

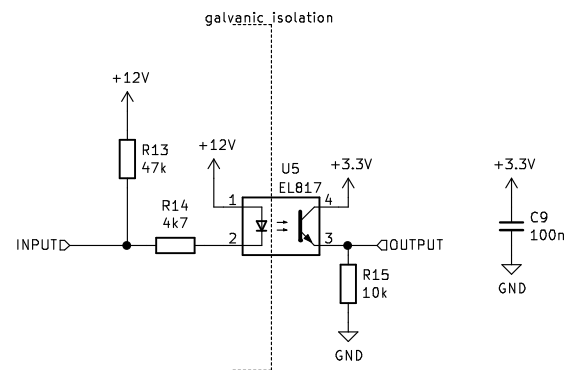


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File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
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Id: 6/24



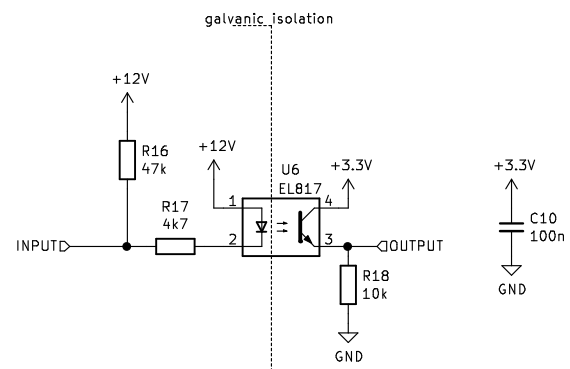
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MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN4/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 7/24



Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN5/
File: INPUT-PROTECTION.sch

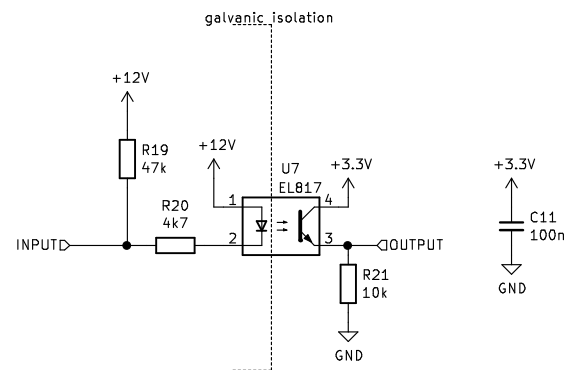
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Size: A4
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Date:

Rev:

Id: 8/24



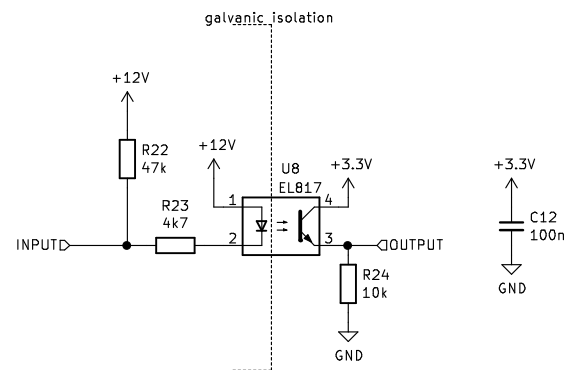
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN6/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date: KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

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Manufacturer - Everlight Elec
 MFR.Part # EL817S1(C)(TU)-F
 LCSC Part # C106900
 PackageSMD-4_4.6x6.5x2.54P
 Price \$0.0525

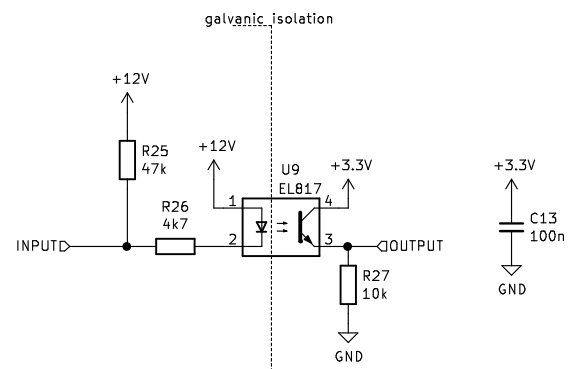
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Size: A4
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Date:
 kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
 Id: 10/24



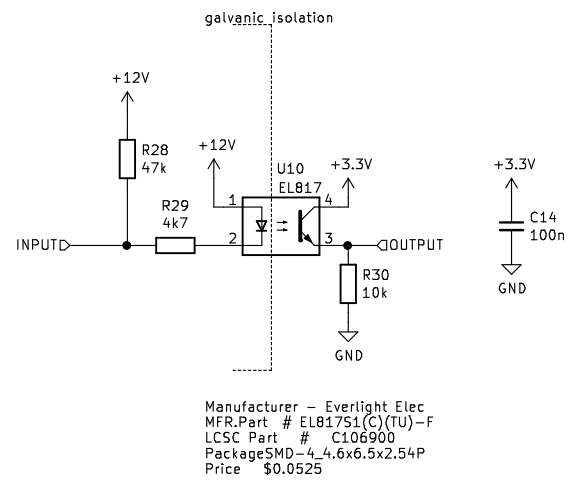
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN8/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 11/24

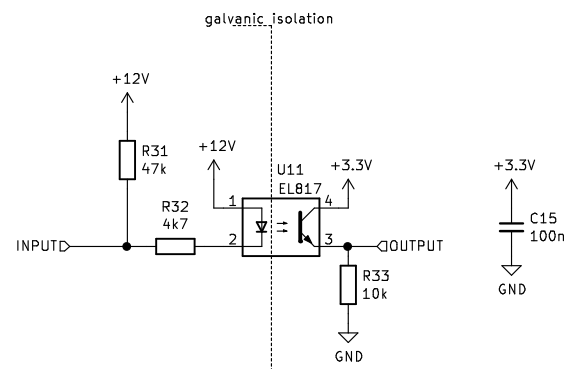


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Title:

Size: A4 Date:
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Rev:
Id: 12/24



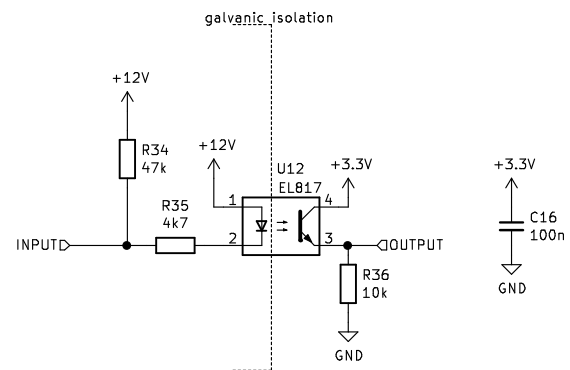
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN10/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 13/24



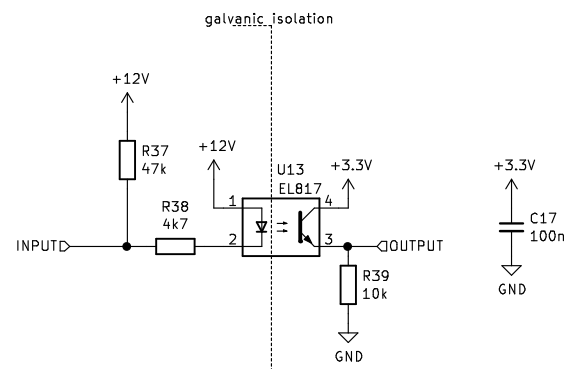
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN11/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 14/24



Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN12/
File: INPUT-PROTECTION.sch

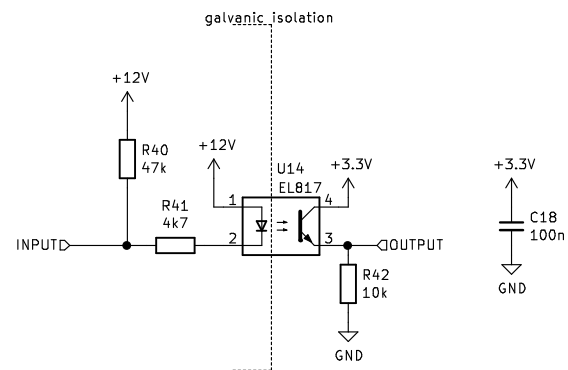
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Date:

Rev:

Id: 15/24



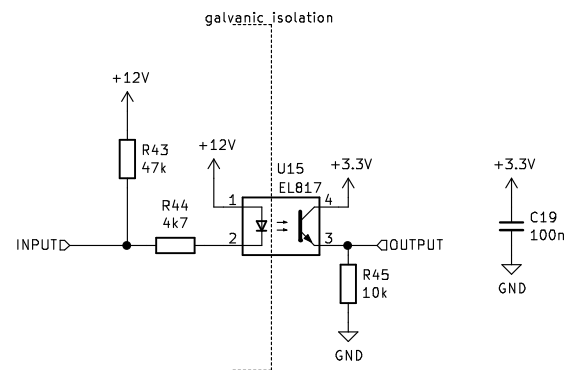
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN13/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date: KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev: Id: 16/24



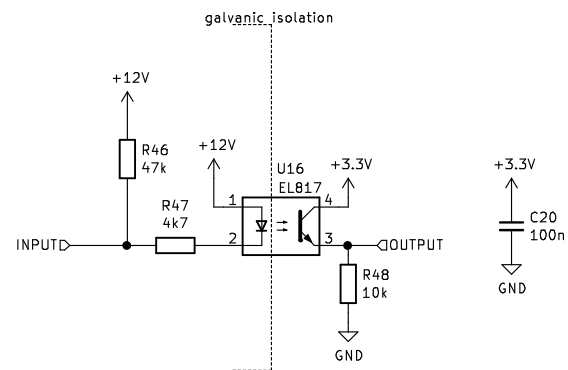
Manufacturer - Everlight Elec
MFR.Part # EL817S1(C)(TU)-F
LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN14/
File: INPUT-PROTECTION.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 17/24



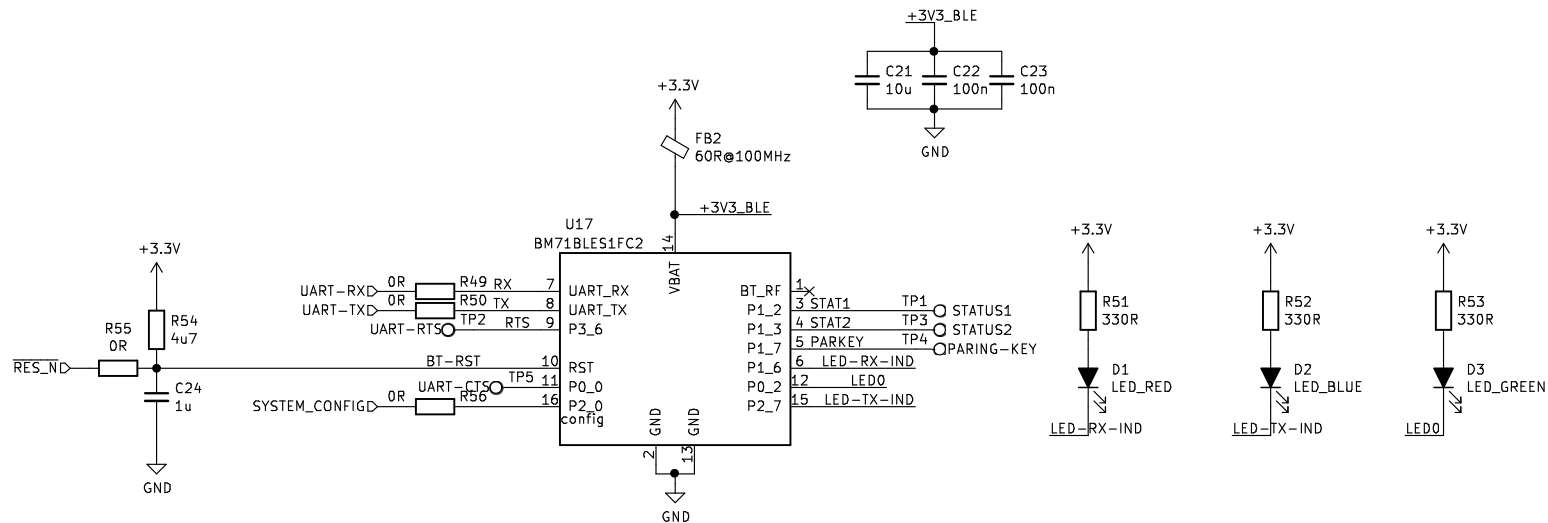
Manufacturer - Everlight Elec
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LCSC Part # C106900
PackageSMD-4_4.6x6.5x2.54P
Price \$0.0525

Sheet: /INPUTS/IN15/
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Title:

Size: A4
Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

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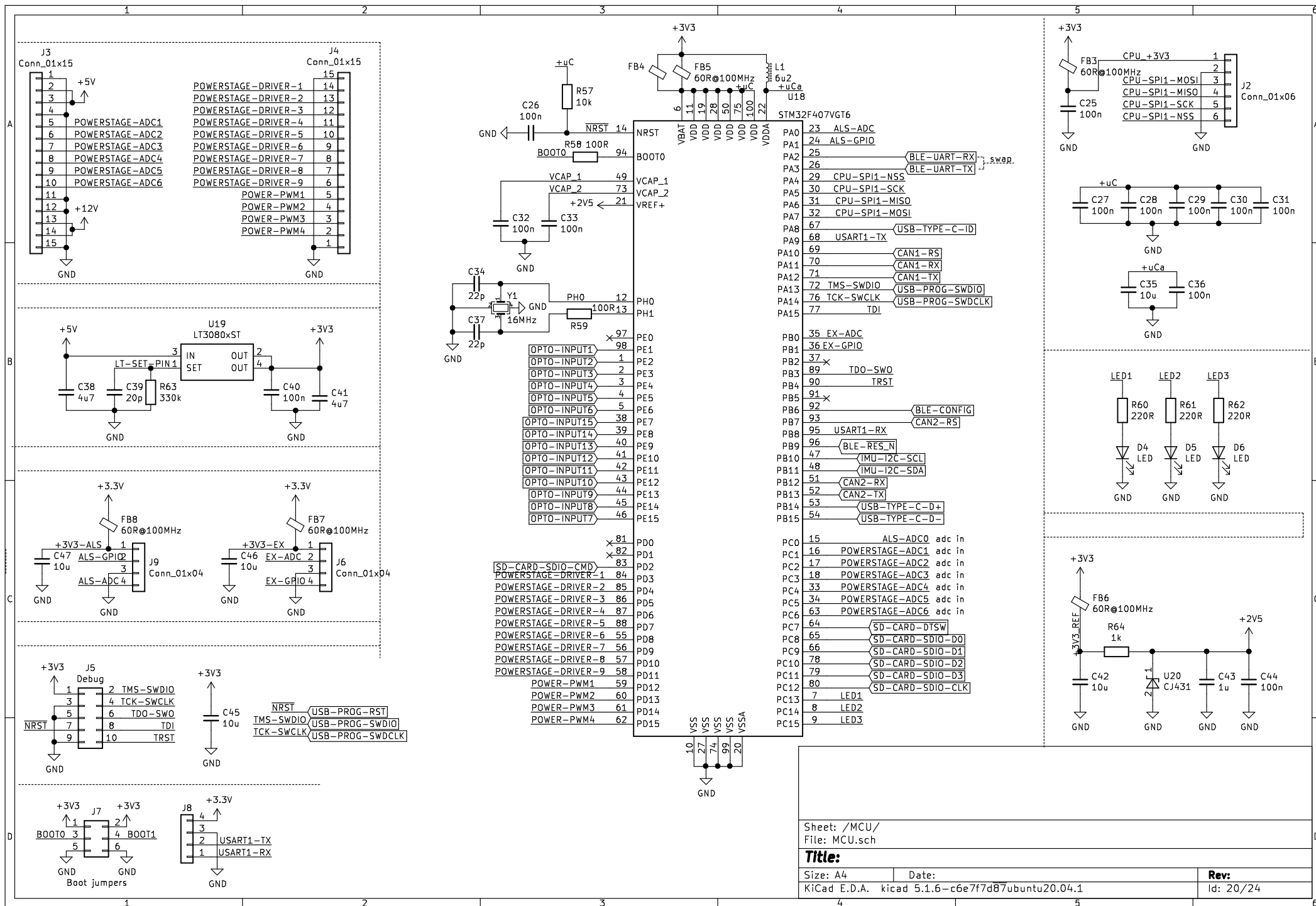


Sheet: /BlueTooth/
File: BlueTooth.sch

Title:

Size: A4 Date: KICad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 19/24



Sheet: /MCU/
File: MCU.sch

Title:

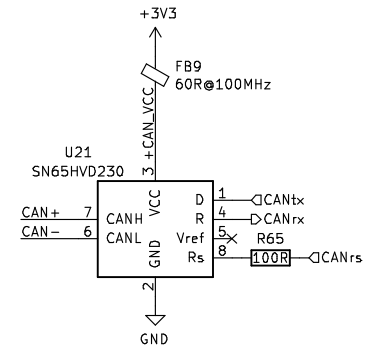
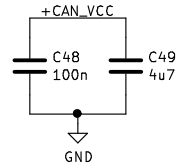
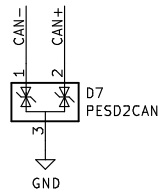
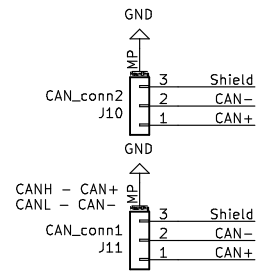
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Date:

KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:

Id: 20/24



Sheet: /CAN1/
File: CAN.sch

Title:

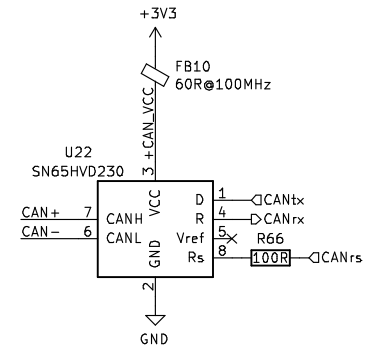
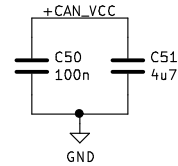
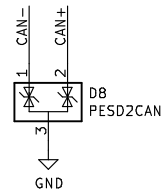
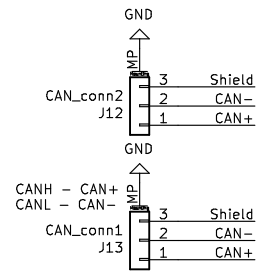
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Date:

KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

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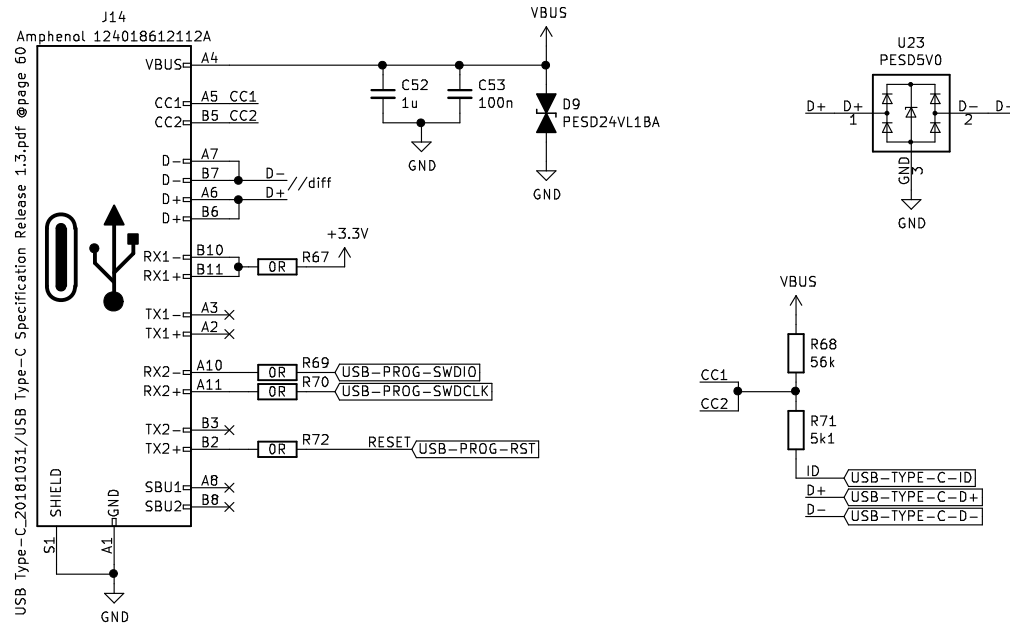
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File: CAN.sch

Title:

Size: A4 Date:
KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
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USB Type-C receptacle



https://www.reddit.com/r/electronics/comments/c365zm/a_quick_guide_to_highspeed_usb/

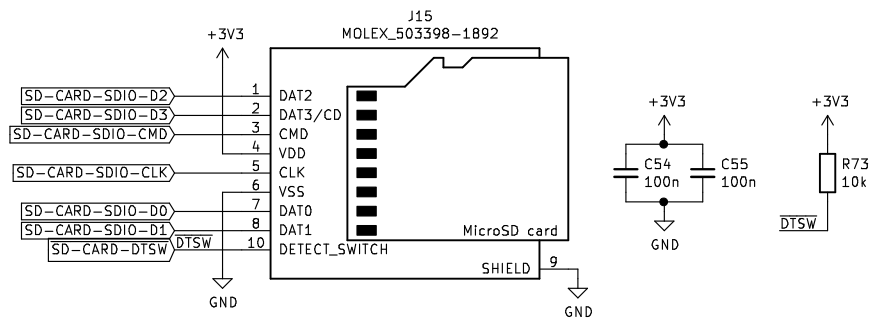
<https://card10.badge.events.ccc.de/en/usbc/>

Sheet: /USB-TYPE-C/
File: USB-TYPE-C.sch

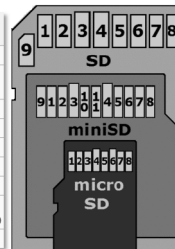
Title:

Size: A4 Date: KiCad E.D.A. kicad 5.1.6-c6e7f7d87ubuntu20.04.1

Rev:
Id: 23/24



SD Pin	miniSD Pin	microSD Pin	Name	I/O	Logic	Description
1	1	2	DAT3	IO	PP	SD Serial Data 3
2	2	3	CMD	IO	PP	Command, Response
3	3		VSS	S	S	Ground
4	4	4	VDD	S	S	Power
5	5	5	CLK	I	PP	Serial Clock
6	6	6	VSS	S	S	Ground
7	7	7	DAT0	IO	PP	SD Serial Data 0
8	8	8	DAT1	IO	PP	SD Serial Data 1 (memory cards)
			nIRQ	O	OD	Interrupt Period (SDIO cards share pin via protocol)
9	9	1	DAT2	IO	PP	SD Serial Data 2



Picture by Steve