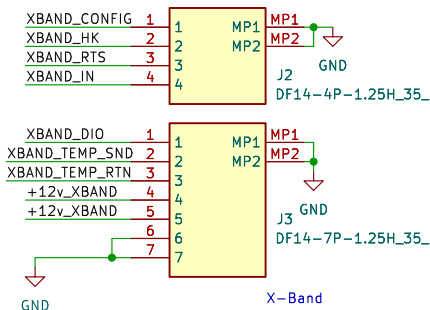
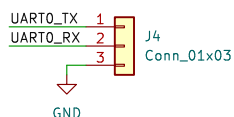


Connectors



FID1 Fiducial

FID2 Fiducial

H1 MountingHole

H2 MountingHole

H3 MountingHole

H4 MountingHole

Designed by Ezra Fielding

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Sheet: /

File: VERTECS-CCB_A.kicad_sch

Title: VERTECS Camera Control Board

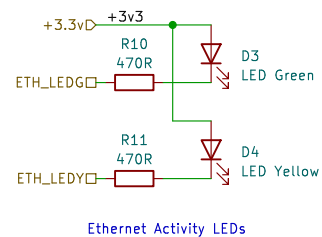
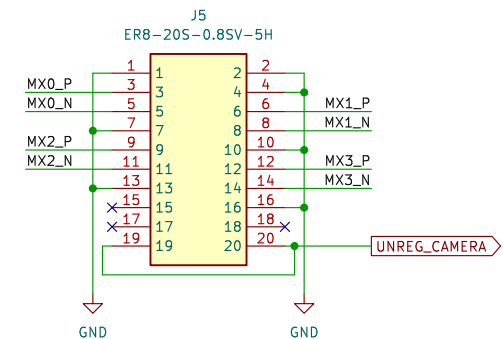
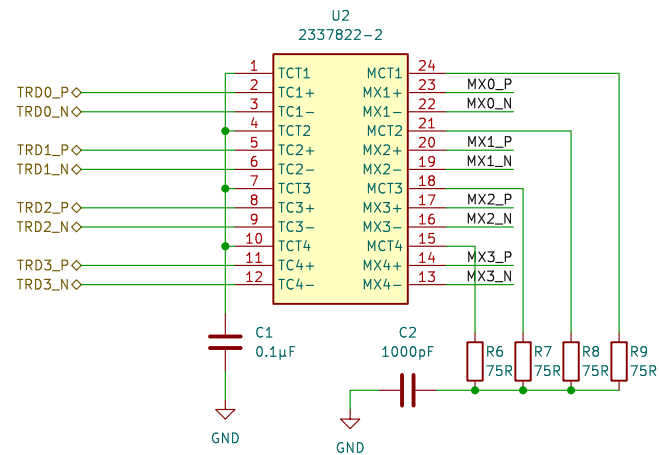
Size: A4

Date: 2024-09-11

KiCad E.D.A. kicad 7.0.8

Rev: 1.4

Id: 1/13



See KITSUNE CCB schematic and CM4 IO board datasheet for reference

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Sheet: /CM4 GPIO/Ethernet/

File: ethernet.kicad_sch

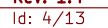
Title: VERTECS CCB – Ethernet Implementation

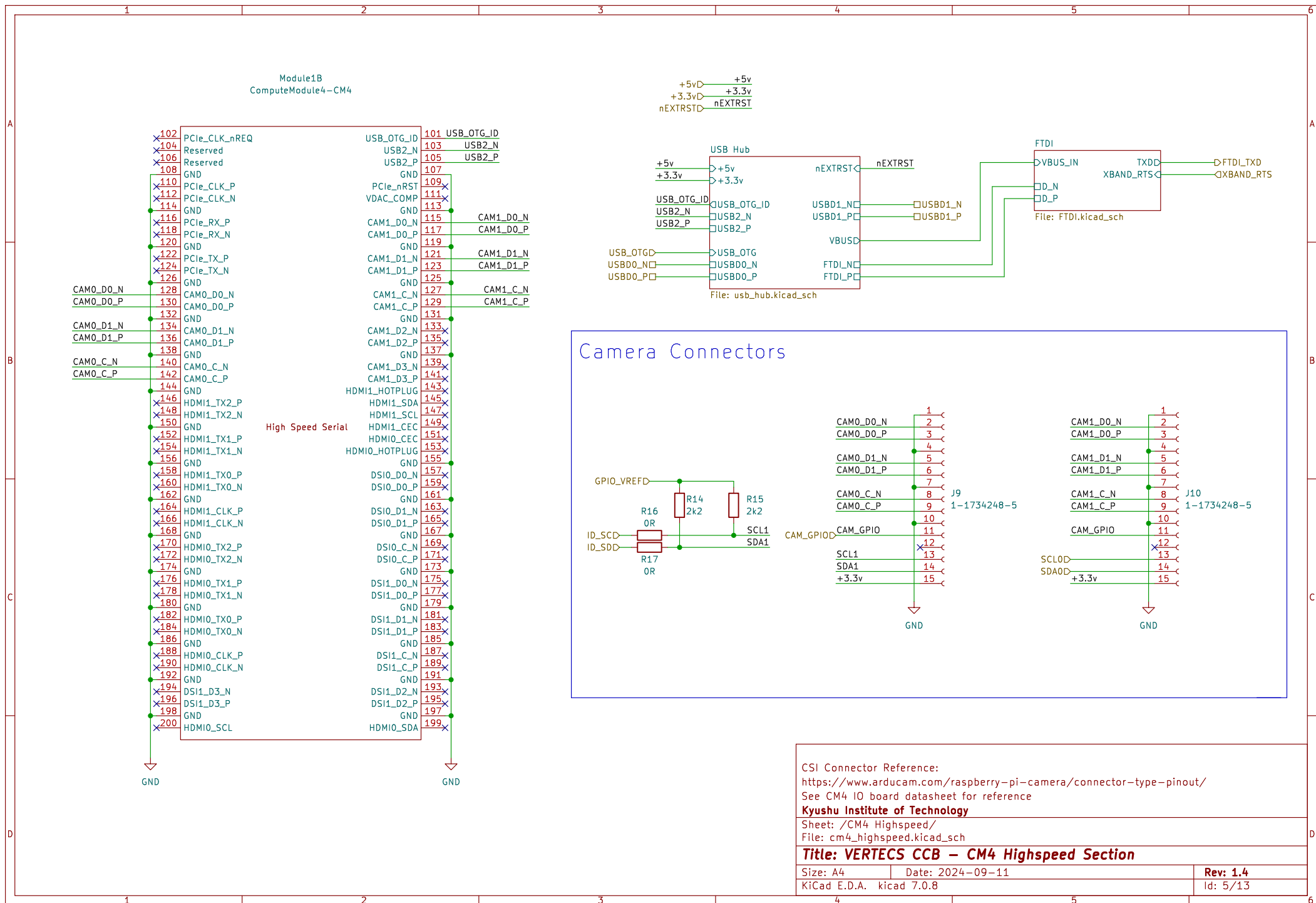
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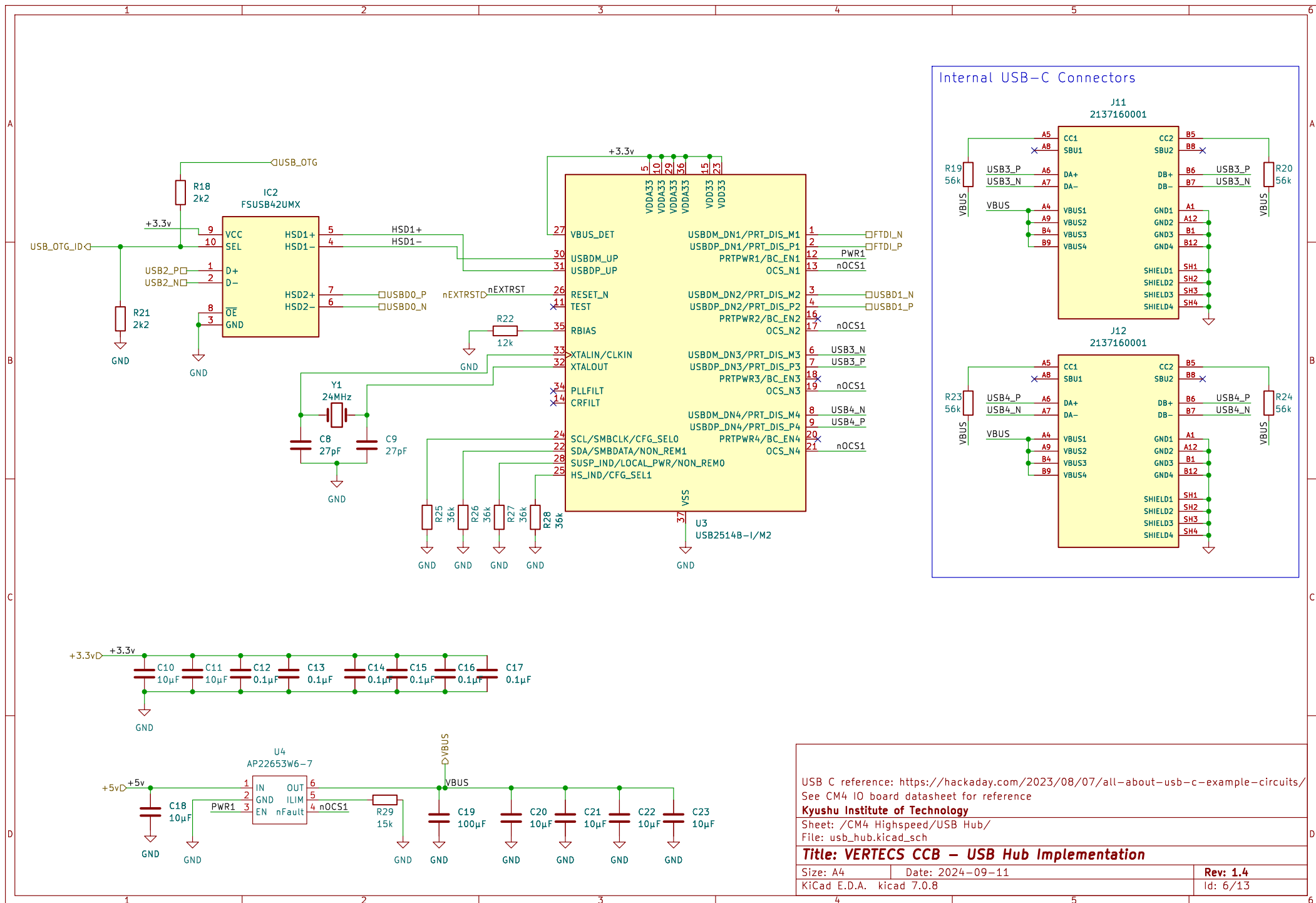
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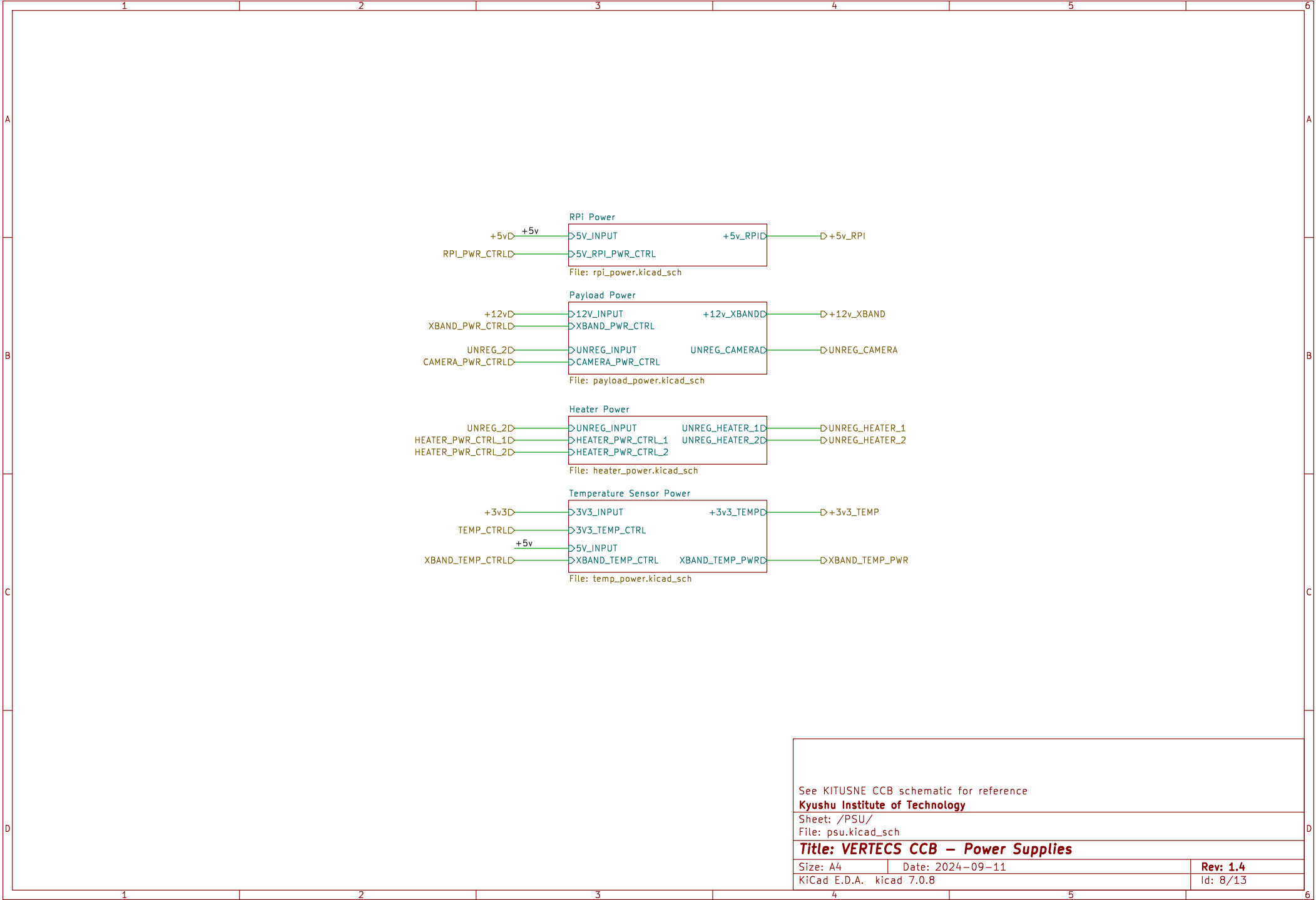
Rev: 1.4

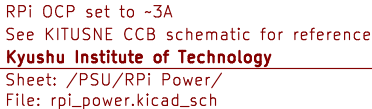
Id: 3/13





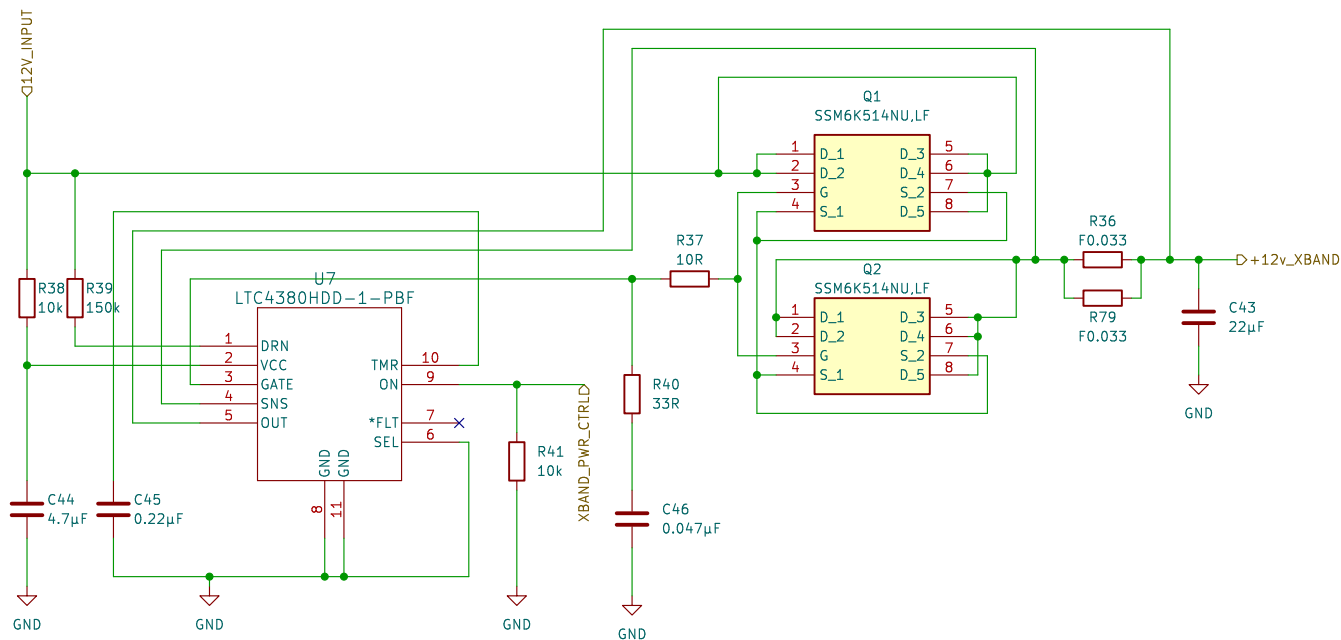




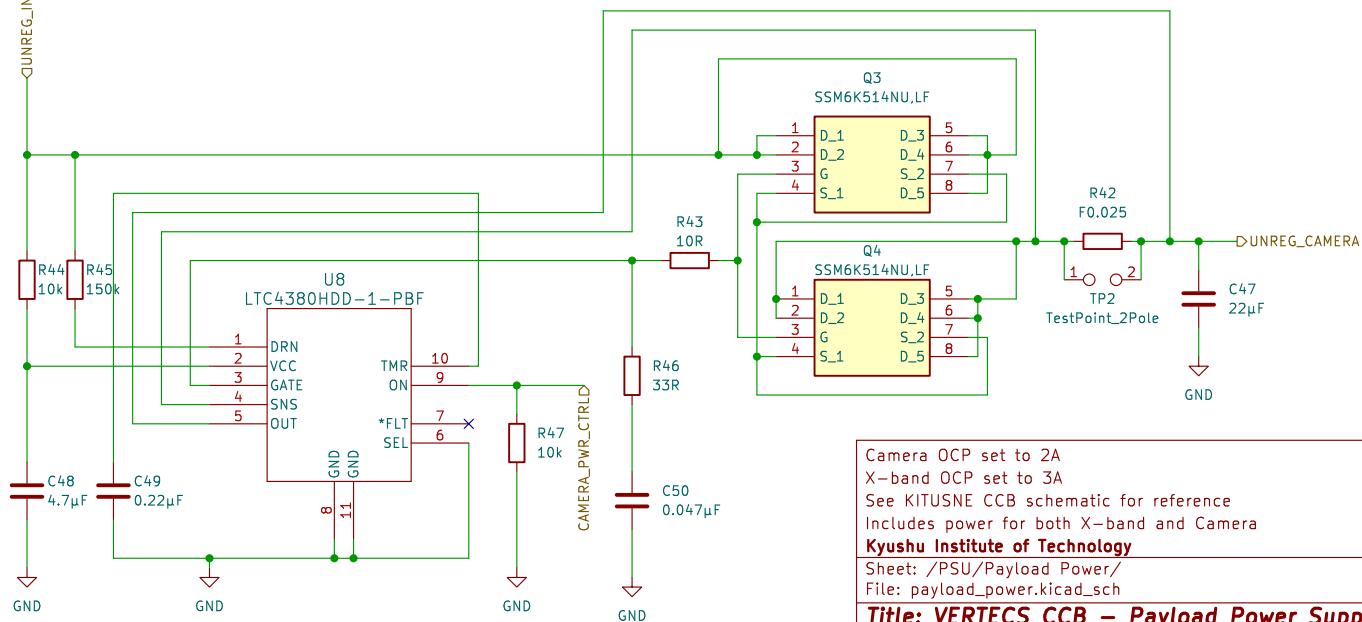


Id: 9/13

X-Band PWR



Camera PWR



Camera OCP set to 2A
X-band OCP set to 3A
See KITUSNE CCB schematic for reference
Includes power for both X-band and Camera

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Sheet: /PSU/Payload Power/

File: payload_power.kicad_sch

Title: VERTECS CCB – Payload Power Supplies

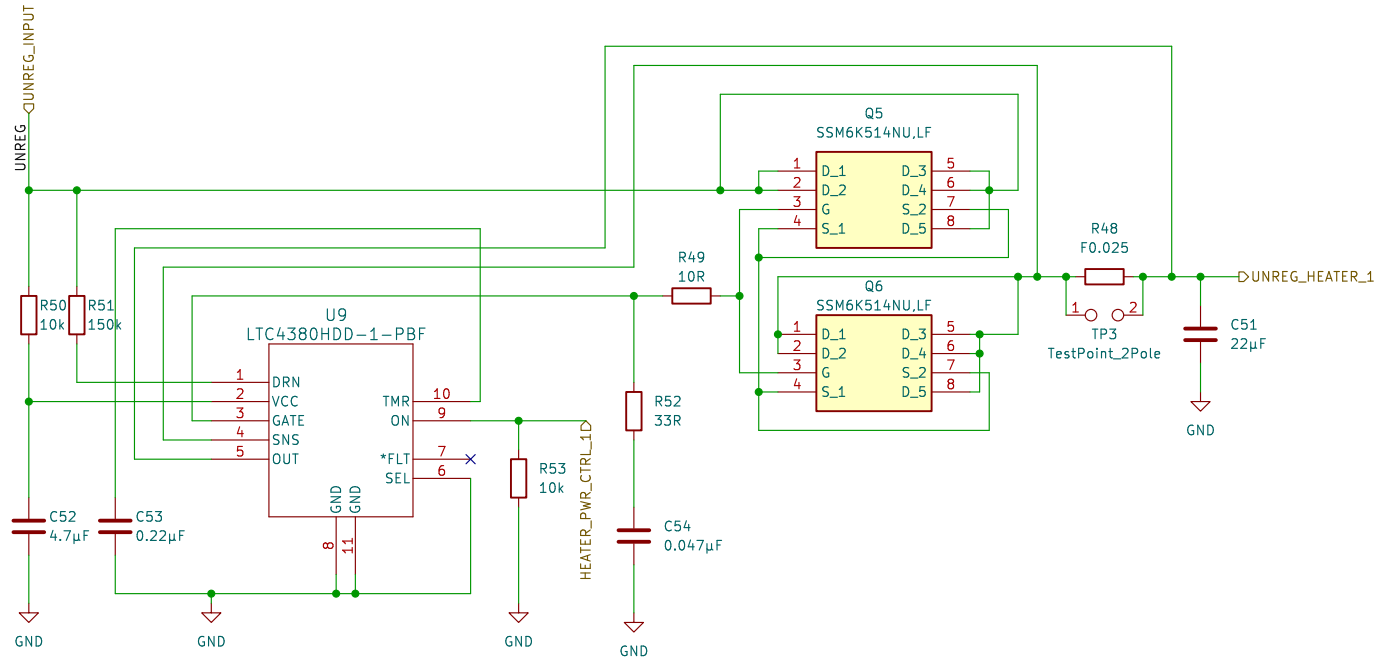
Size: A4 Date: 2024-09-11

KiCad E.D.A. kicad 7.0.8

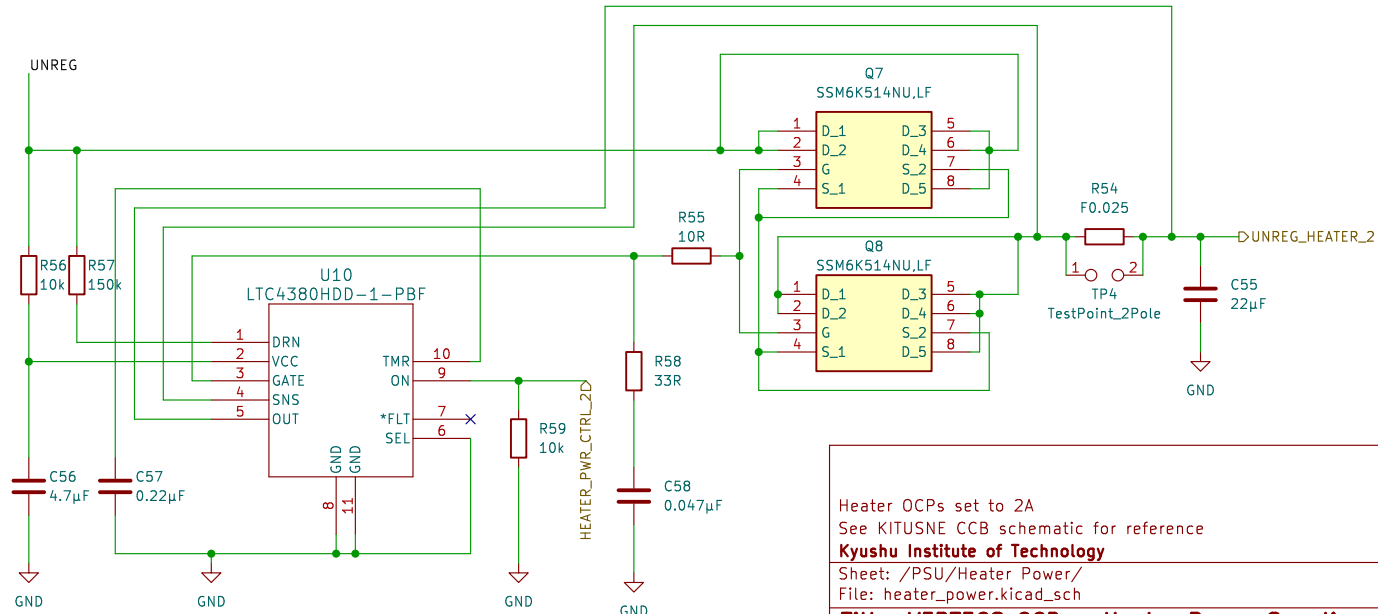
Rev: 1.4

Id: 10/13

Heater 1 PWR



Heater 2 PWR



Heater OCPs set to 2A
See KITUSNE CCB schematic for reference

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Sheet: /PSU/Heater Power/

File: heater_power.kicad_sch

Title: VERTECS CCB – Heater Power Supplies

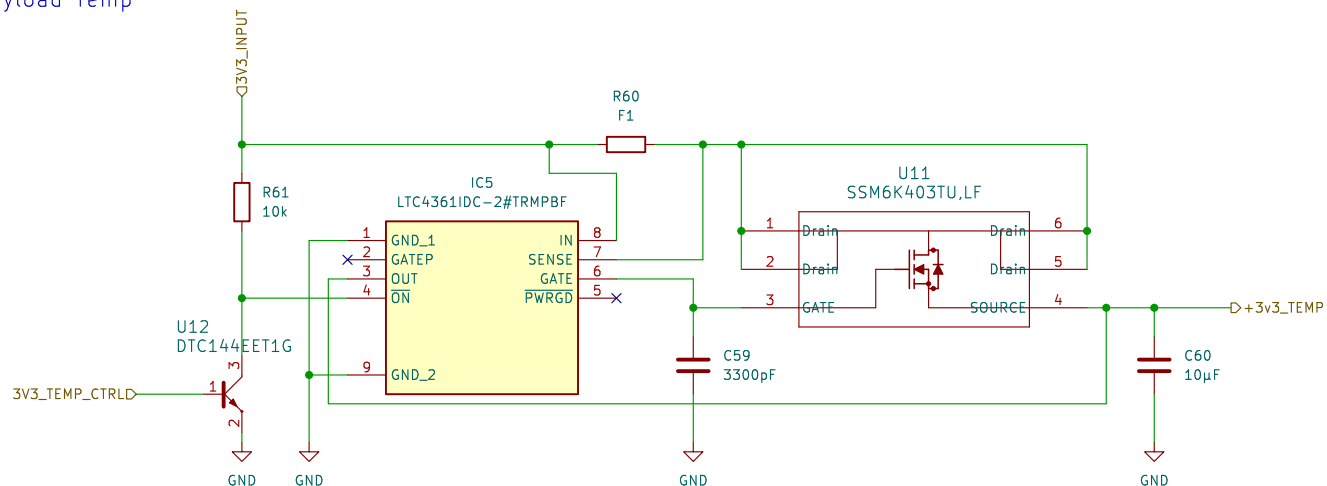
Size: A4 Date: 2024-09-11

KiCad E.D.A. kicad 7.0.8

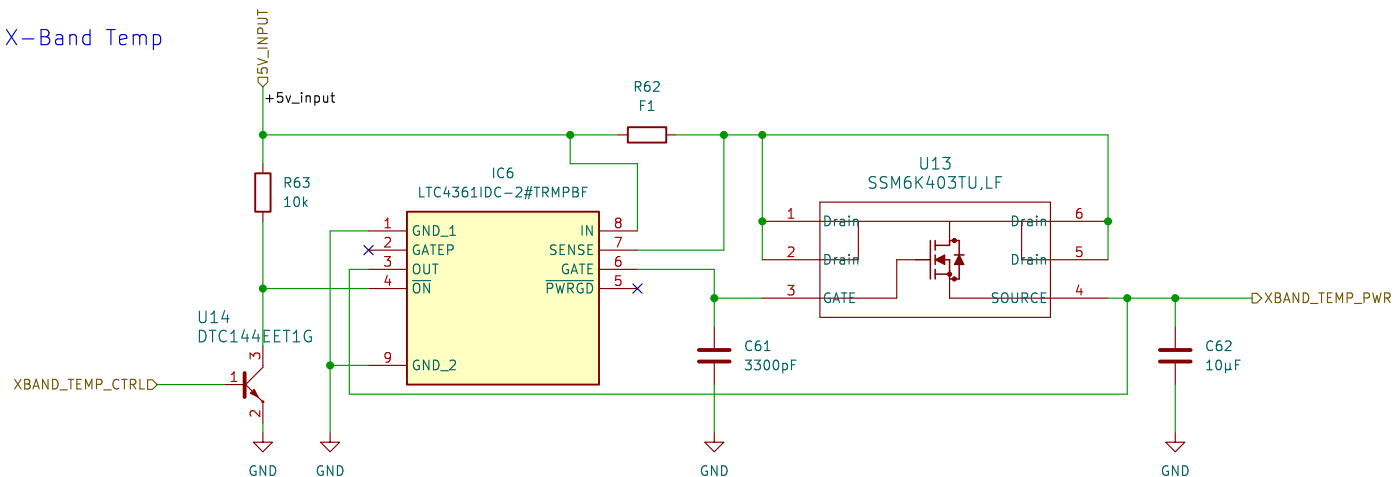
Rev: 1.4

Id: 11/13

Payload Temp



X-Band Temp



X-Band Temp OCP set to 1A
 Payload Temp OCP set to 1A
 See KITUSNE CCB schematic for reference

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Sheet: /PSU/Temperature Sensor Power/
 File: temp_power.kicad_sch

Title: VERTECS CCB – Temperature Sensor Power Supply

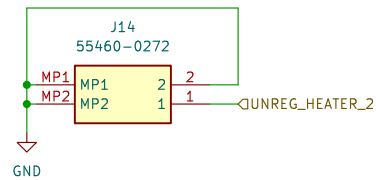
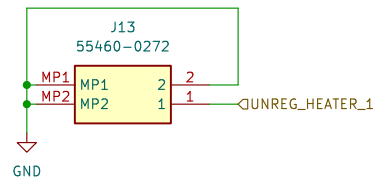
Size: A4 Date: 2024-09-11

Rev: 1.4

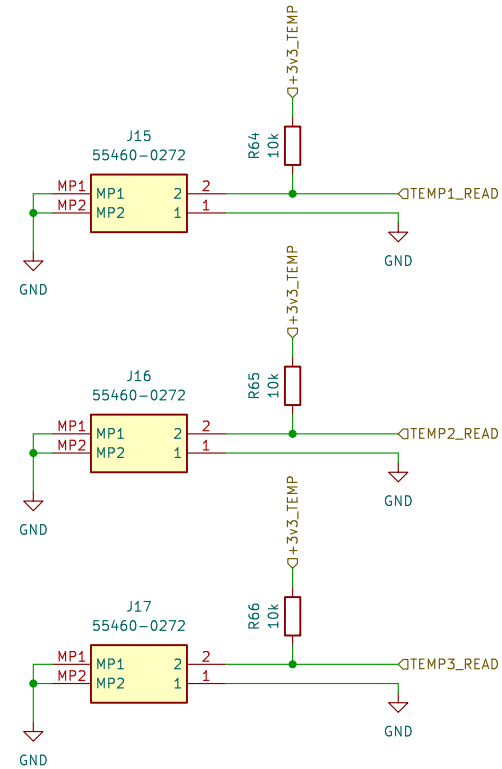
KiCad E.D.A. kicad 7.0.8

Id: 12/13

Heater Connectors



Temp Sensor Connectors



See KITUSNE CCB schematic for reference

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Sheet: /Thermal Control/

File: thermal_control.kicad_sch

Title: VERTECS CCB – Thermal Control Connectors

Size: A4 Date: 2024-09-11

KiCad E.D.A. kicad 7.0.8

Rev: 1.4

Id: 13/13