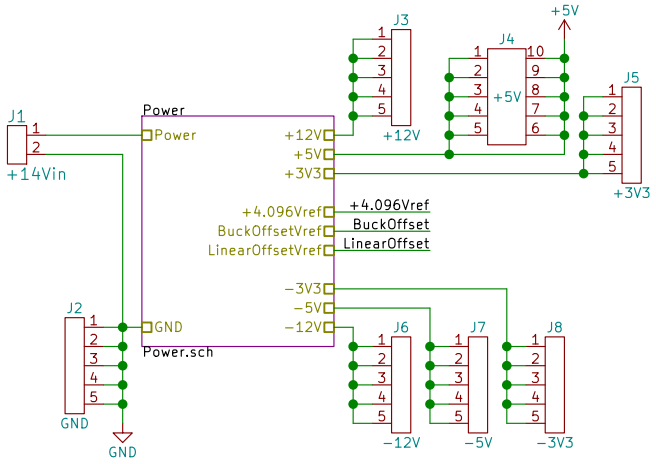
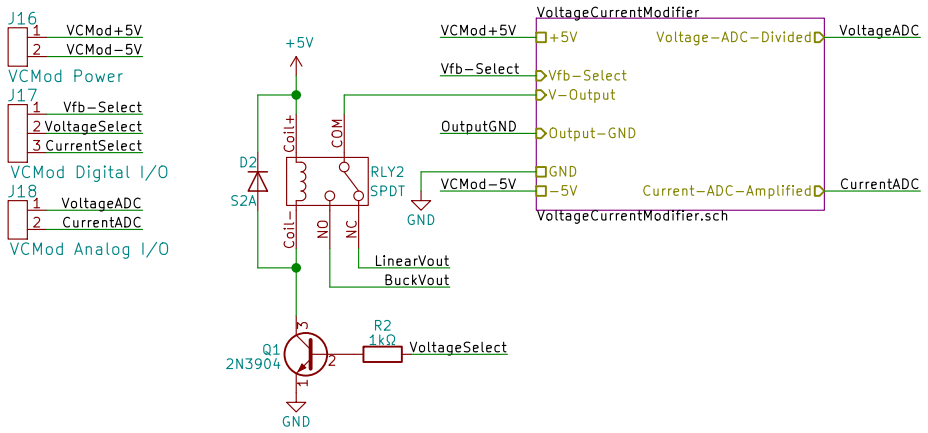
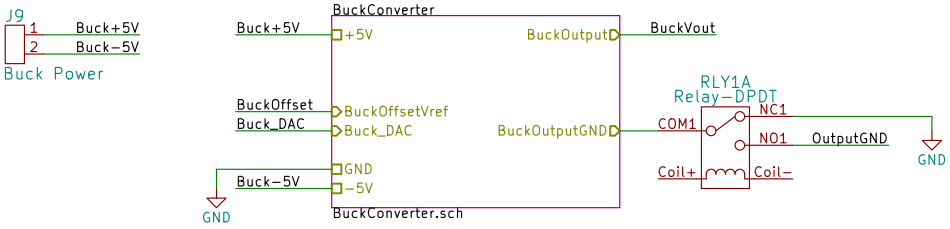
Power Section



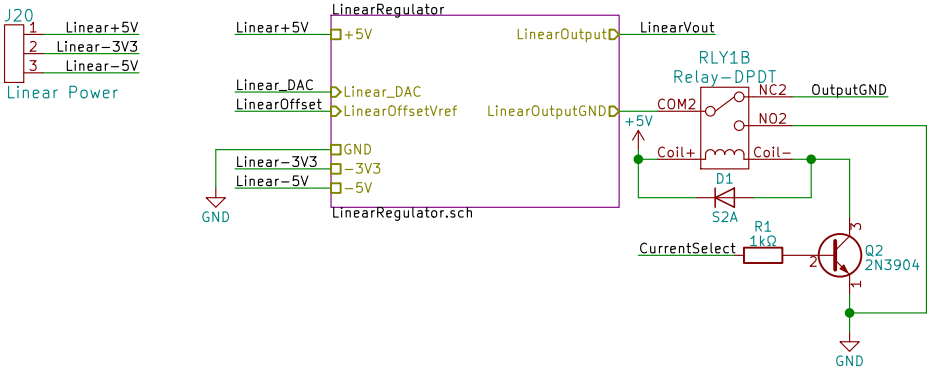
Voltage Current Modifier Section



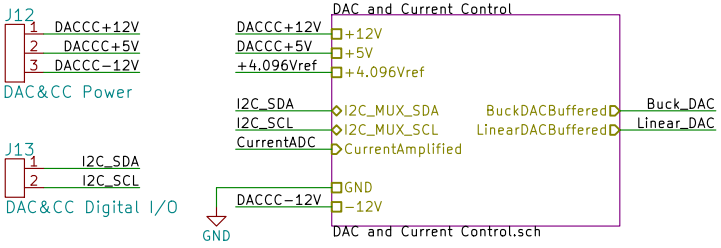
Buck Converter Section



Linear Regulator Section



DAC and Current Control Section



Look at Attachment for more information

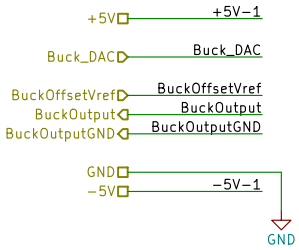
QuadTouch Engineering

Sheet: /
File: Version 4.sch

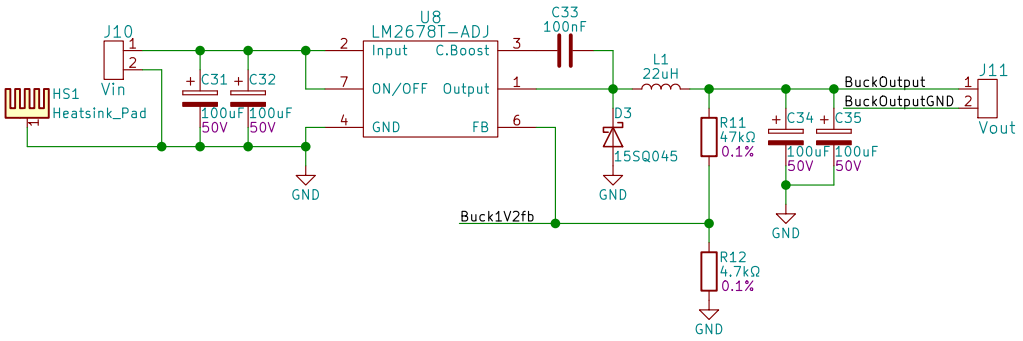
Title: Commercial PSU Main Overview

Size: A4	Date: 2019−07−07	**Rev: 4**
KiCad E.D.A. eeschema (5.0.2)−1		Id: 1/6

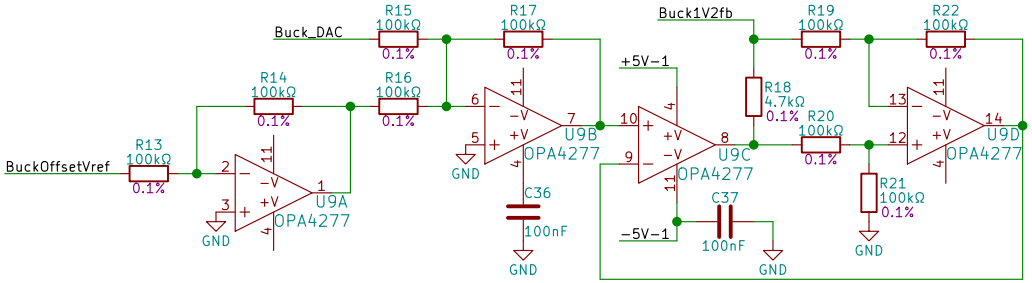
Connector



Buck Converter Section



Buck Converter Feedback Variable Current Source Section



Look at Attachment for more information

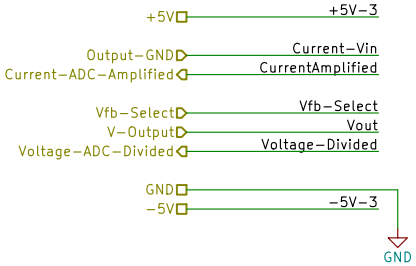
QuadTouch Engineering

Sheet: /BuckConverter/
File: BuckConverter.sch

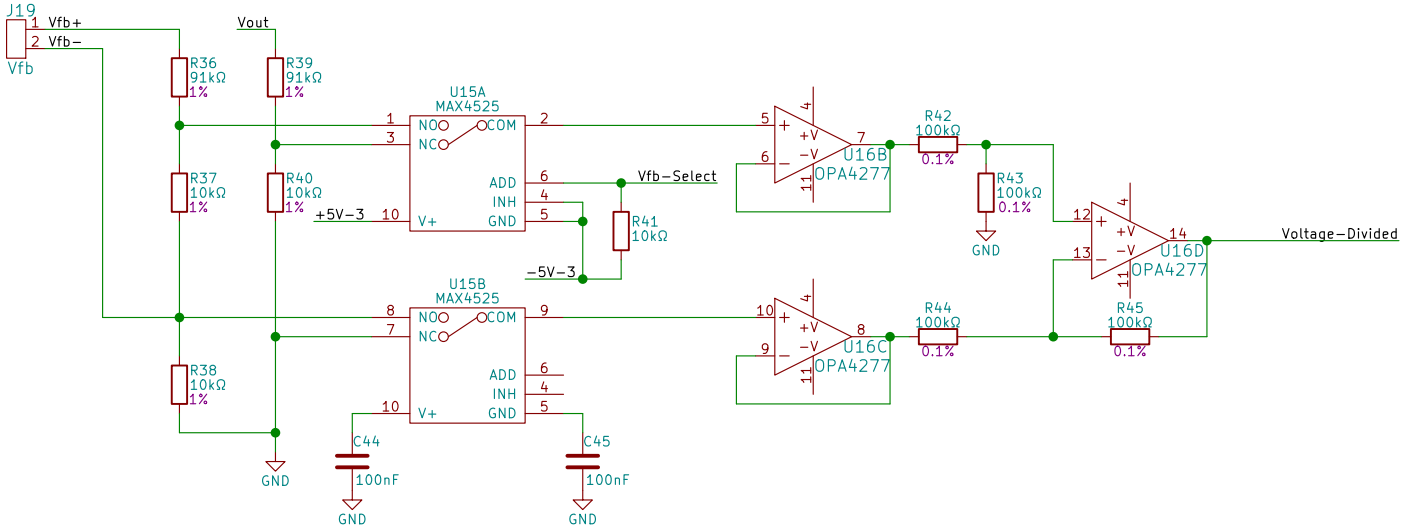
Title: Commercial PSU Buck Converter Section

Size: A4	Date: 2019-07-07	**Rev: 4**
KiCad E.D.A. eeschema (5.0.2)-1		Id: 2/6

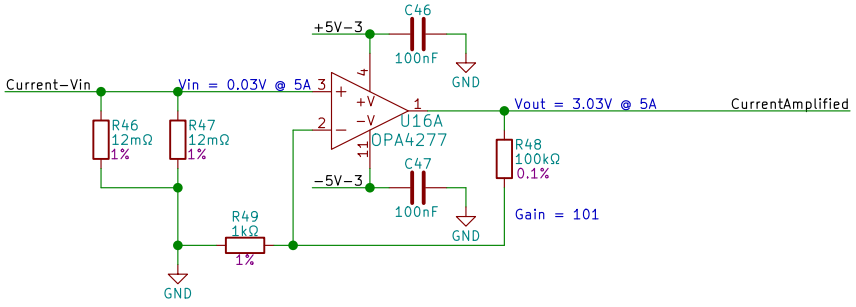
Connector



Voltage Divider Analog Reading



Current Analog Reading Amplifier



Look at Attachment for more information

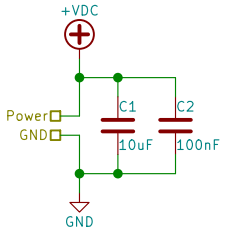
QuadTouch Engineering

Sheet: /VoltageCurrentModifier/
File: VoltageCurrentModifier.sch

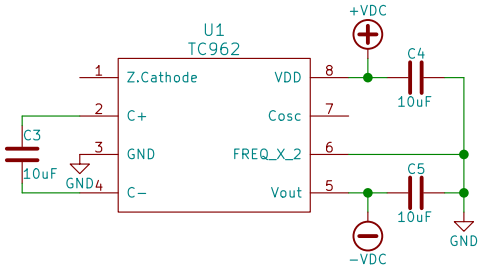
Title: Commercial PSU Voltage and Current Modifier Section

Size: A4	Date: 2019-07-07	**Rev: 4**
KiCad E.D.A. eeschema (5.0.2)-1		Id: 3/6

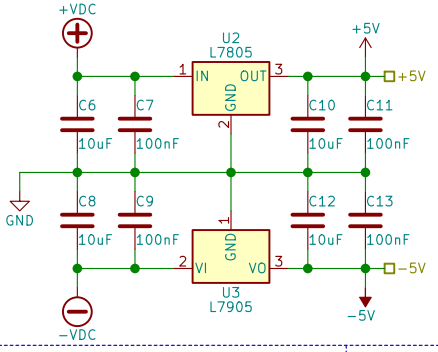
Power In



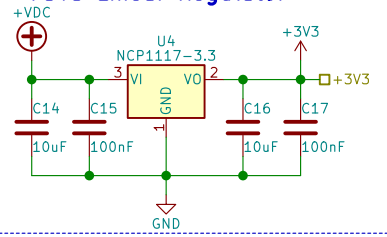
Charge Pump to generate −Vs



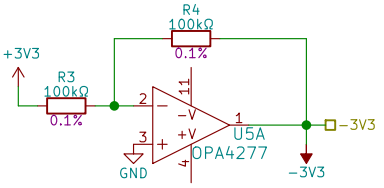
±5V Linear Regulator



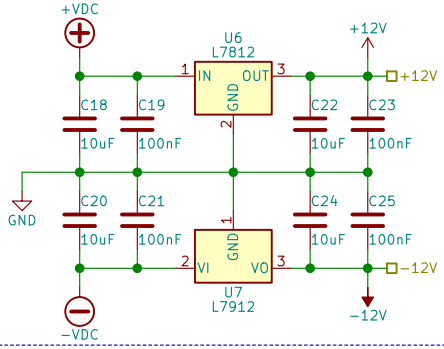
+3V3 Linear Regulator



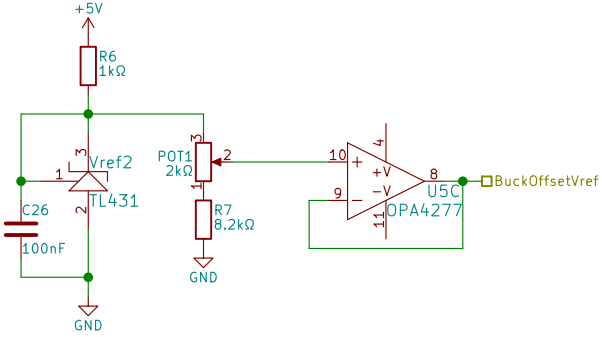
−3V3 Voltage Source



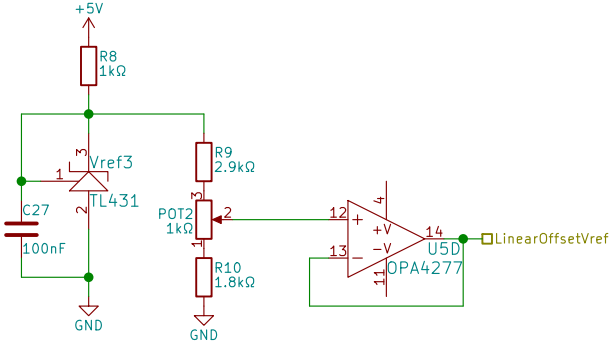
±12V Linear Regulator



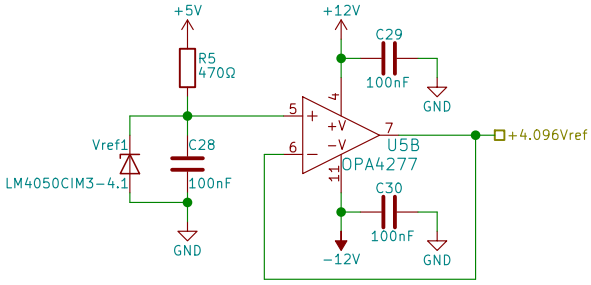
Buck Converter Offset Voltage



Linear Regulator Offset Voltage



+4.096 Voltage Refrence



Look at Attachment for more information

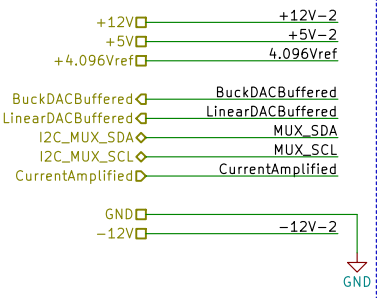
QuadTouch Engineering

Sheet: /Power/
File: Power.sch

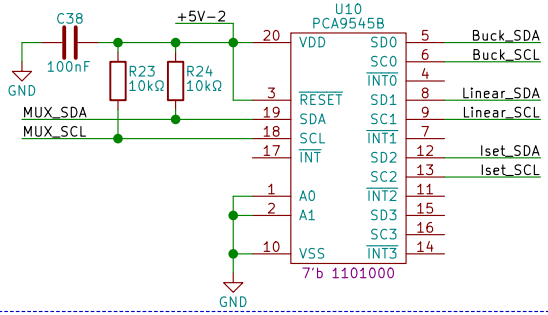
Title: Commercial PSU Power Section

Size: A4	Date: 2019-07-07	**Rev: 4**
KiCad E.D.A. eeschema (5.0.2)-1		Id: 4/6

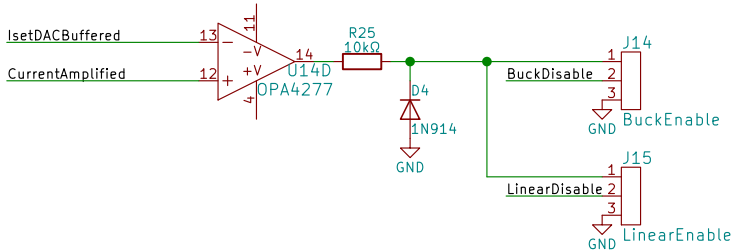
Connector



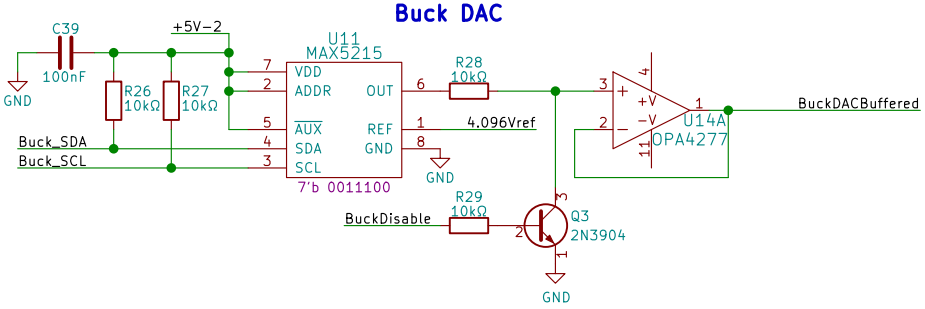
I2C Multiplexer



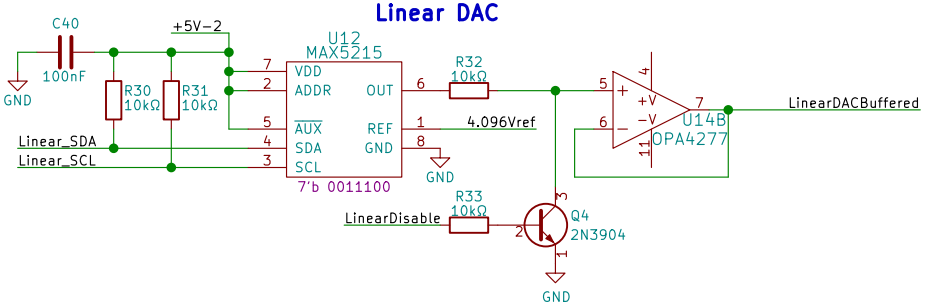
Current Limit Comparator



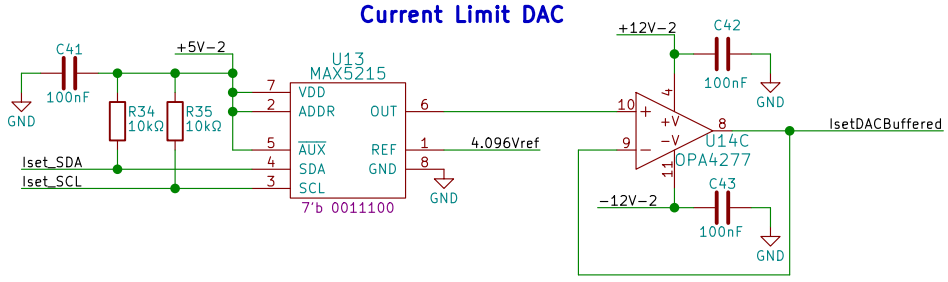
Buck DAC



Linear DAC



Current Limit DAC



Look at Attachment for more information

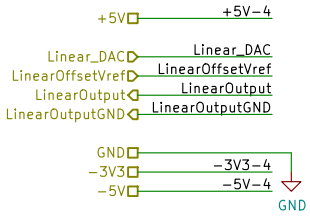
QuadTouch Engineering

Sheet: /DAC and Current Control/
File: DAC and Current Control.sch

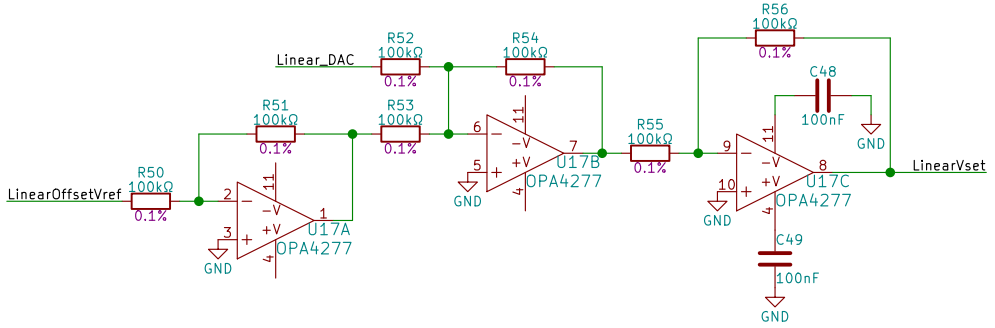
Title: Commercial PSU DAC and Current Control Section

Size: A4	Date: 2019-07-07	**Rev: 4**
KiCad E.D.A. eeschema (5.0.2)-1		Id: 5/6

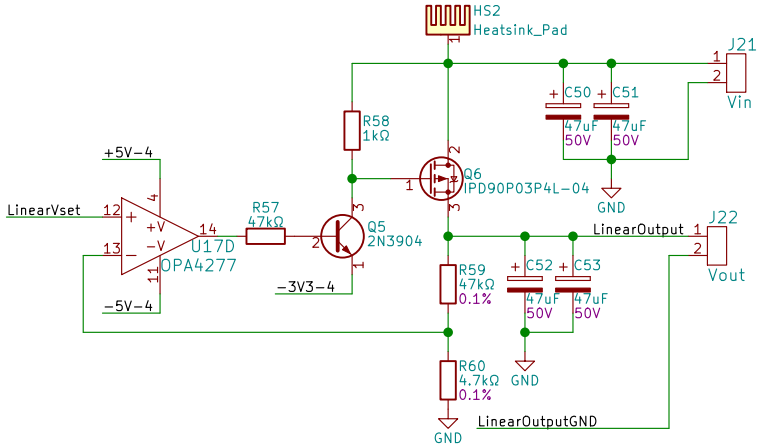
Connector



Control Voltage Compensator



Linear Regulator Section



Look at Attachment for more information

QuadTouch Engineering

Sheet: /LinearRegulator/
File: LinearRegulator.sch

Title: Commercial PSU Linear Regulator Section

Size: A4	Date: 2019-07-07	**Rev: 4**
KiCad E.D.A. eeschema (5.0.2)-1		Id: 6/6