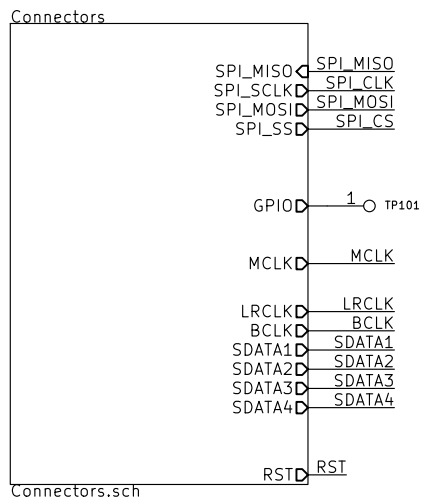
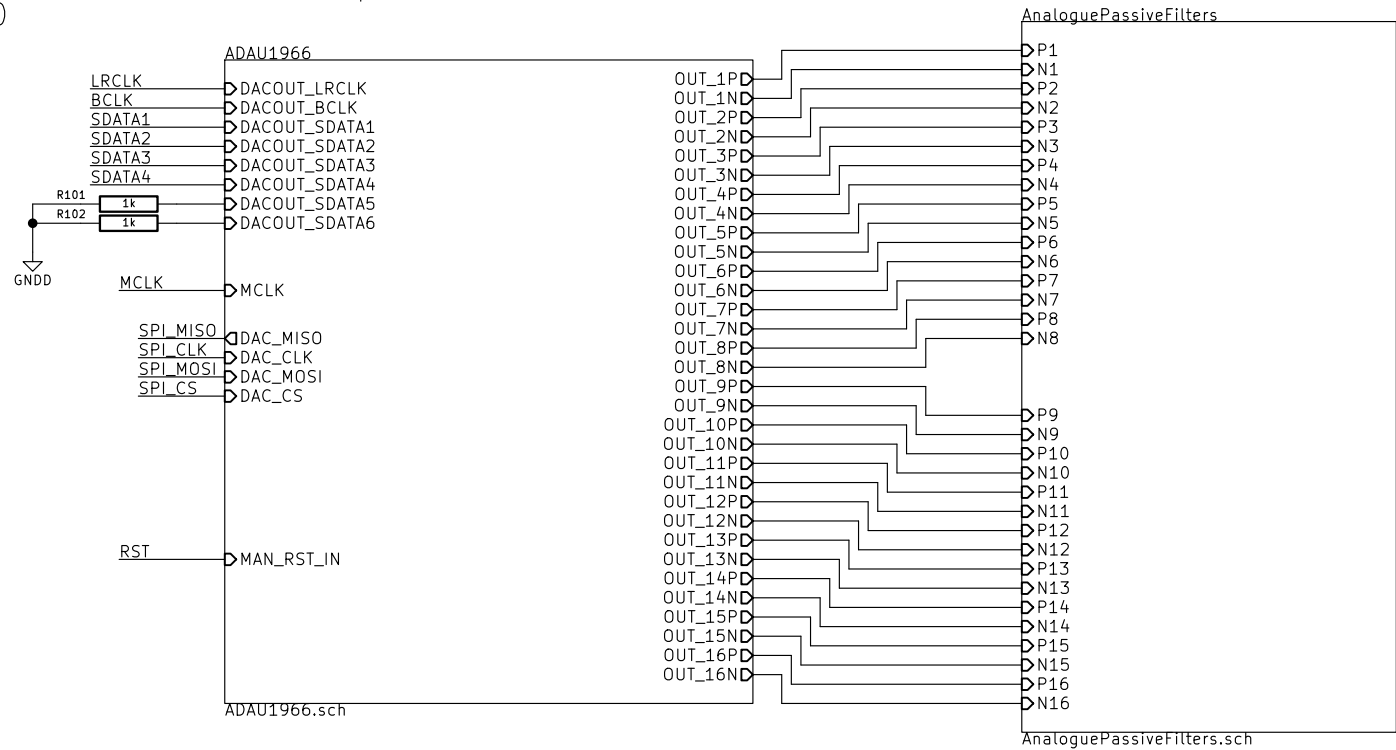


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ADAU1966 DAC with Passive Output Filters
Revision 2.0

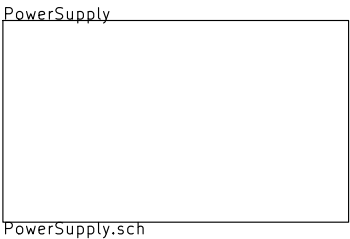


Notes:

All digital I/O is 3V3. Use outside this voltage can cause damage.

See bill of materials for detailed parts information.

Trace impedance on SPI/I2C, MCLK, and I2S is designed for approx 89ohm.
26AWG ribbon cable used with Ground–Signal–Ground is approx 89ohm.

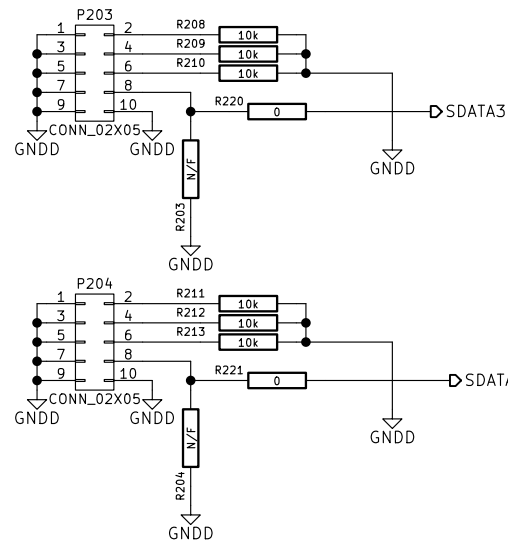
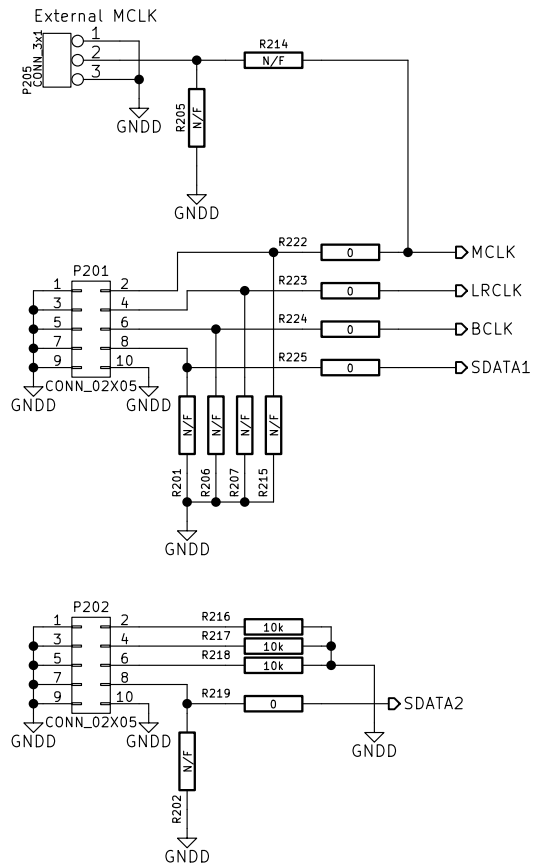


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Sheet: / File: DAC–ADAU1966.sch		
Title: ADAU1966 DAC with Passive Output Filters		
Size: A4	Date: 2016–05–25	Rev: 2.0
KiCad E.D.A. kicad 4.0.2–stable	Id: 1/5	

Connectors

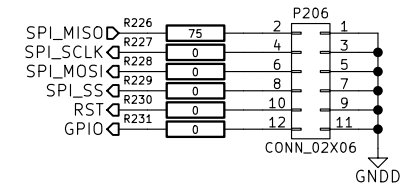
I2S/TDM Connectors

External I2S/TDM audio data.
Only 4 of the 8 SDATA lines are routed.
Minimum input for 16 channels is 4 TDM4 data streams.
Stereo I2S gives 8 channels only.



SPI Connector

For software control
See notes on page 5 for use



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Sheet: /Connectors/

File: Connectors.sch

Title: ADAU1966 DAC with Passive Output Filters

Size: A4 Date: 2016-05-25

Rev: 2.0

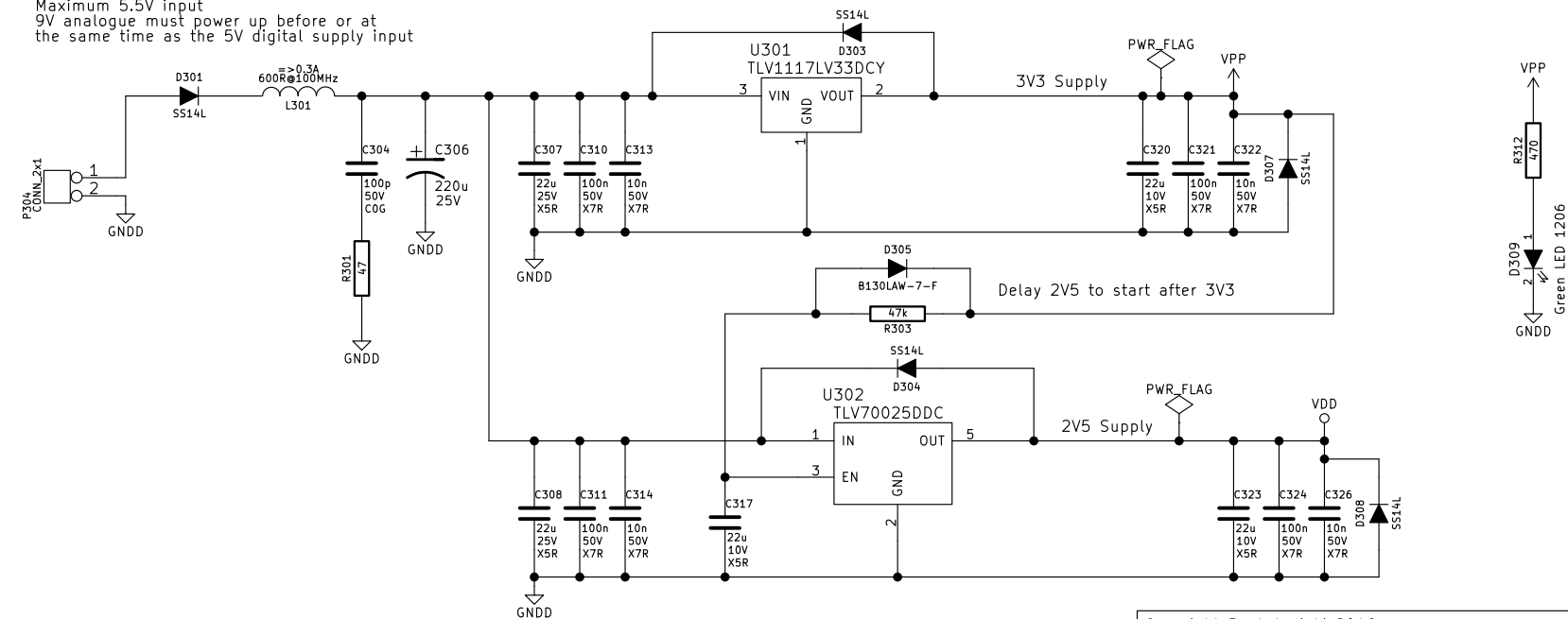
KiCad E.D.A. kicad 4.0.2-stable

Id: 2/5

Analogue PSU

Digital PSU

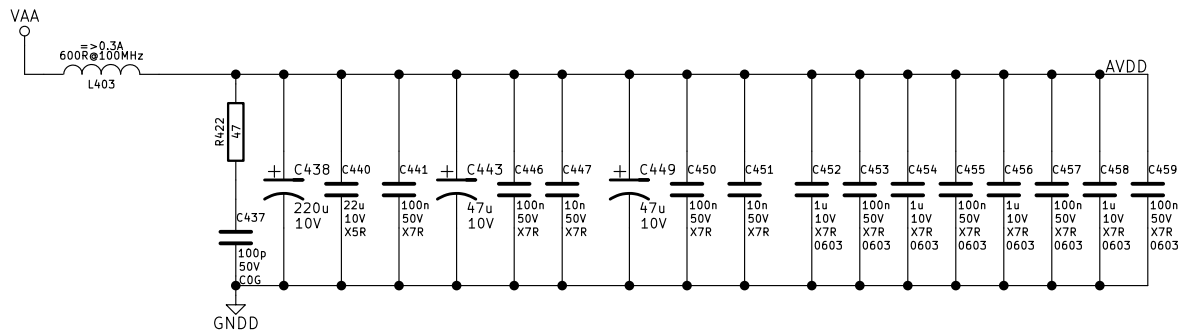
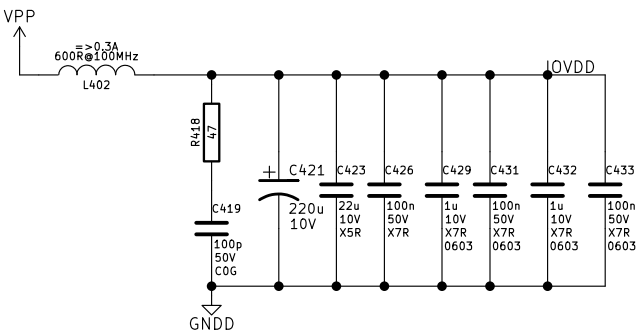
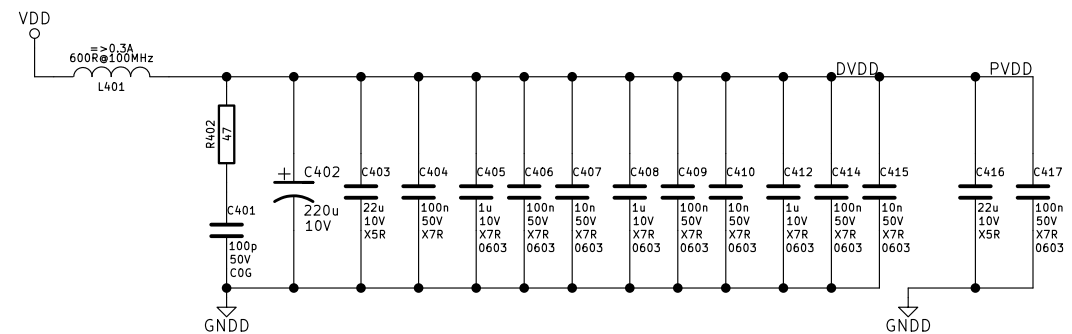
5V input, this generates 3V3 and 2V5 for DAC digital supplies
Maximum 5.5V input
9V analogue must power up before or at
the same time as the 5V digital supply input



○

Size: A4	Date: 2010-0
KiCad E.D.A.	kicad 4.0.2-stable

ADAU1966



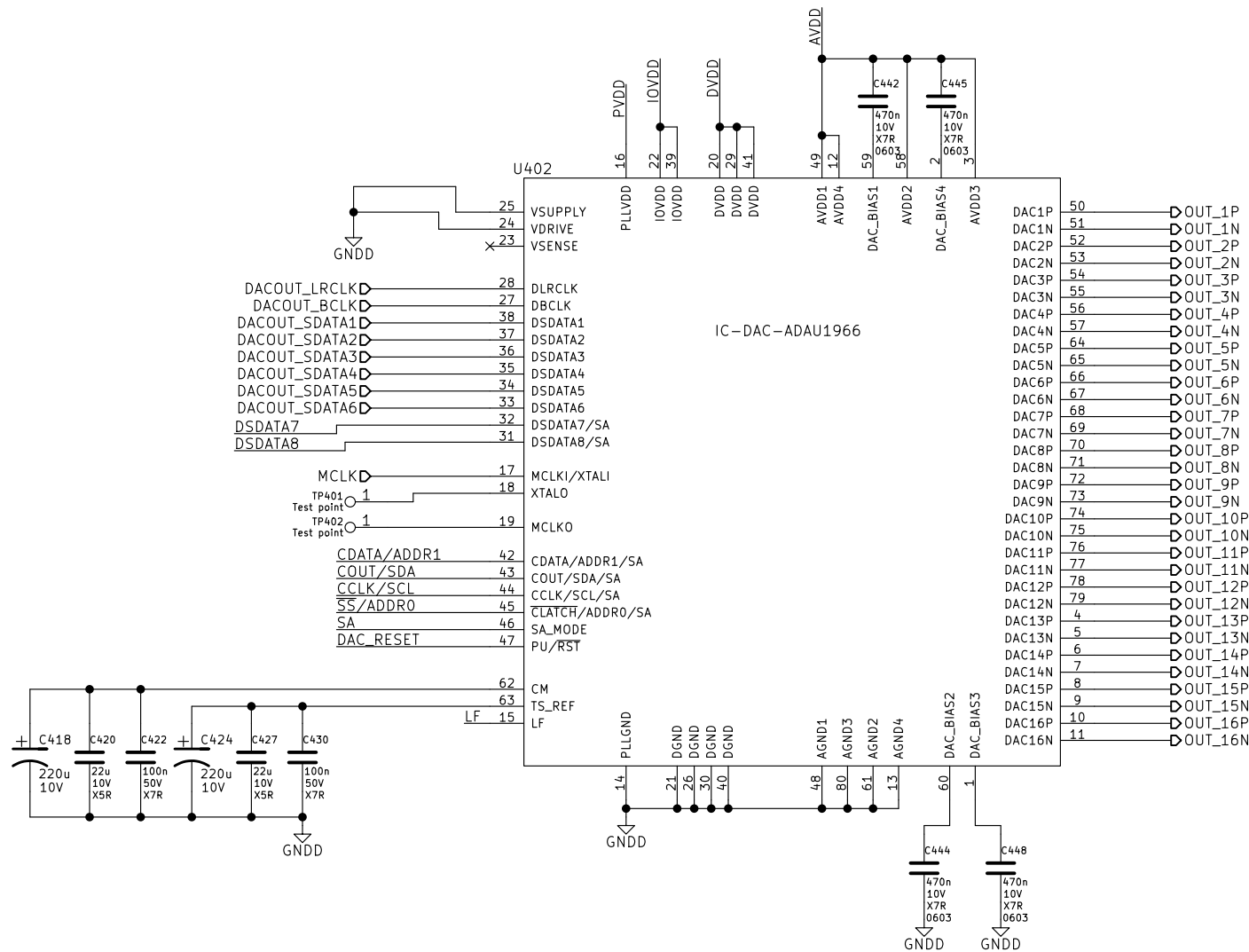
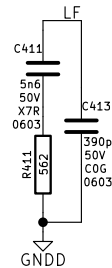
External SPI Interface

For software control short JP401 and remove all other jumpers.

DAC_MOSI \rightarrow CDATA/ADDR1
DAC_CLK \rightarrow CCLK/SCL
DAC_MISO \rightarrow COUT/SDA
DAC_CS \rightarrow SS/ADDR0

Loop Filter

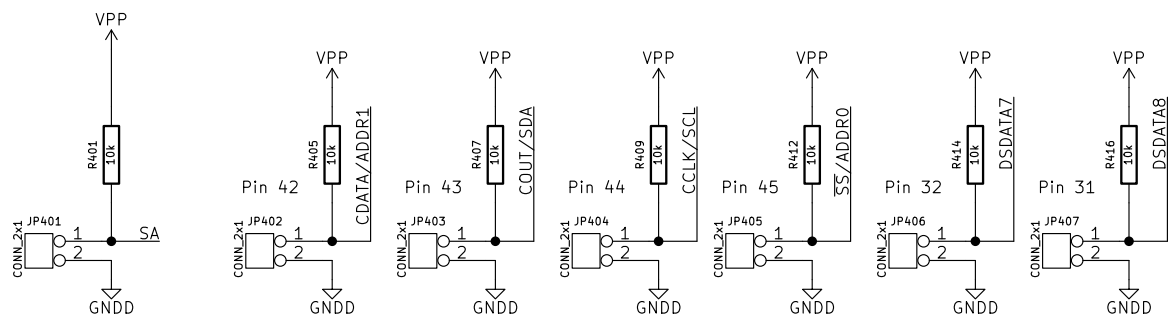
Values for MCLK mode



Stand Alone Control

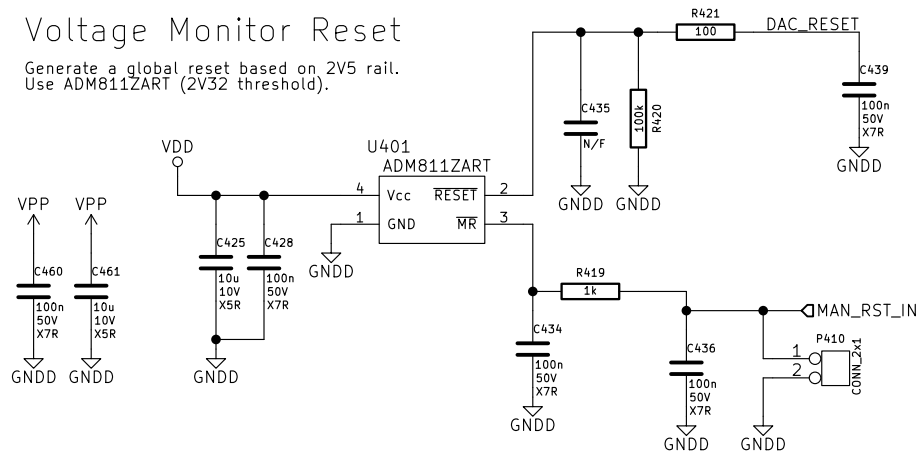
These jumpers choose/configure SA mode settings. See datasheet for settings of pins 42-45 and 31-32.

Short JP401 for SPI software control and remove all other jumpers. Leave JP401 open for Stand Alone mode.



Voltage Monitor Reset

Generate a global reset based on 2V5 rail. Use ADM811ZART (2V32 threshold).



Analogue Passive Filters
Differential Outputs

