



3.3VDD Power Budget:
STM32: 46.33mA
2x LED: 4mA
2x AS5600: 2x 7mA
OR
2x TLE5012B: 2x 16mA
TOTAL: 82mA

$(12-3.3) \times 0.082 = 0.7W$
 $12V \times 0.082 = 1W$

3.0VAA from DRV8316C Power Budget:
3x Quad Opamp: TLV9154, 3x4x0.56mA
3x 5k pot: 3x0.6mA
3x 10k+10k NTC: 3x0.15mA
3x 10k+10k ampl: 3x0.15mA
=9.42mA

3.0VAA Reference
STM32 VDDA: 1mA



J4
Conn_02x05_Odd_Even

Pin	Signal
1	SPI1_SCK
2	SPI1_MOSI
3	SPI1_MISO
4	SPI1_NSS
5	SPI1_DC
6	SPI1_RES
7	SPI1_CS2
8	SPI1_BLK
9	VDD
10	GND

[illegible]







