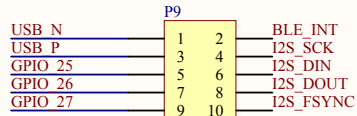
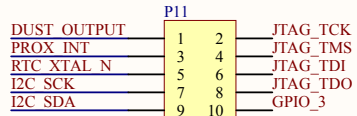


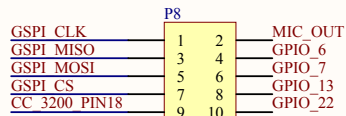
Debugging connectors



DNP



DNP

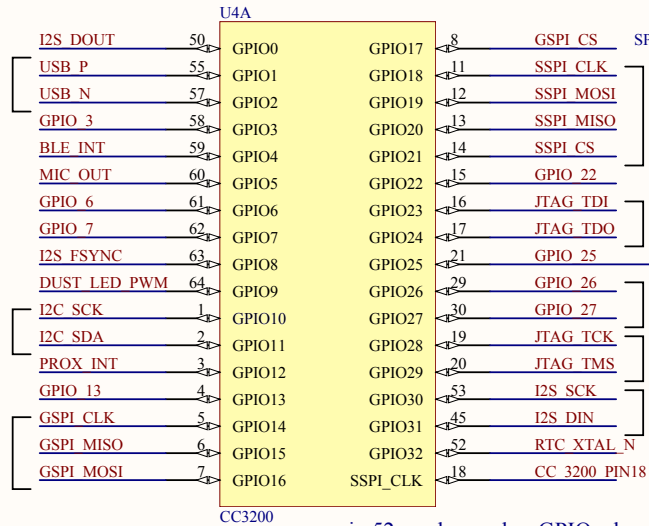


DNP

I2S codec
USB lines connected to UART0
Analog sig from dust sensor
interrupt from nRF
analog microphone

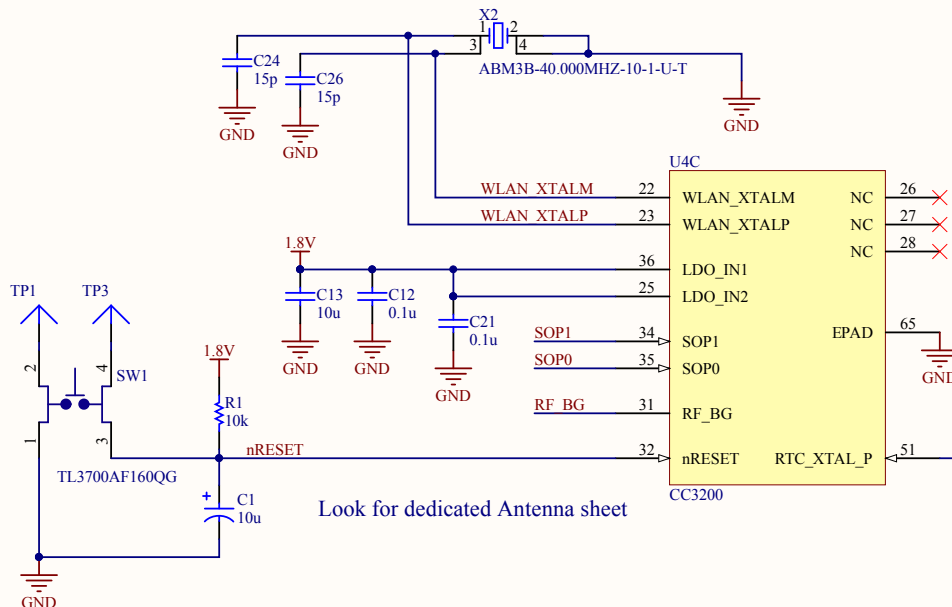
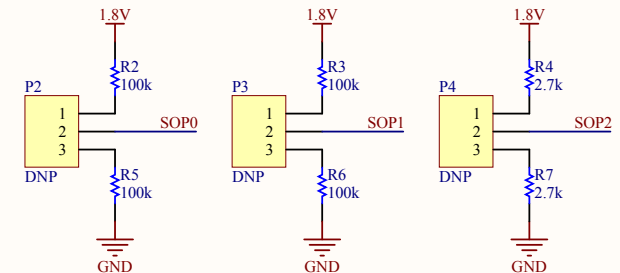
I2S codec
2-wire I2C
interrupt from prox sensor

SPI to nRF



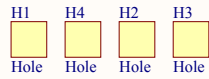
pin 52 can be used as GPIO when getting 32 kHz clk from another IC
pin 18 is not usable as GPIO

4-wire JTAG available to the developer
Defaults: P1 = 2-3, P2 = 2-3, P3 = 2-3

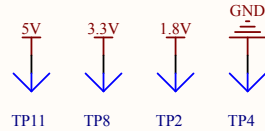


Hello

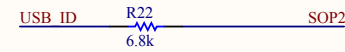
TITLE	M4F_MCU	REV	1
DATE	7/11/2014	DRAWN BY	D. Fusi
		SHEET 1 OF 6	



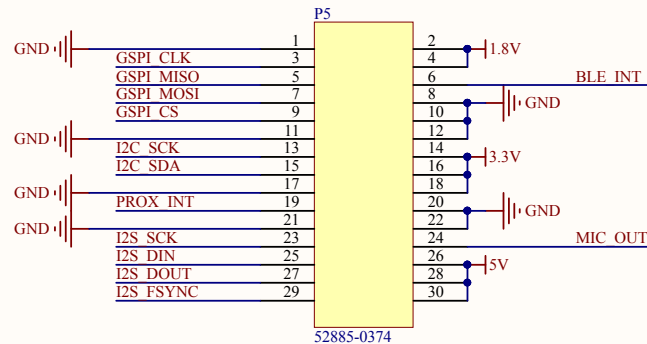
mounting holes



SOP2 pull-up from ID line. Needed to reprogram the device from USB
R22 brings voltage down to 1.8V

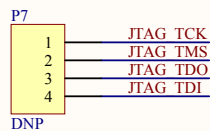


to the top board



Connect UART1 to UART on nRF

programming / debugging connectors



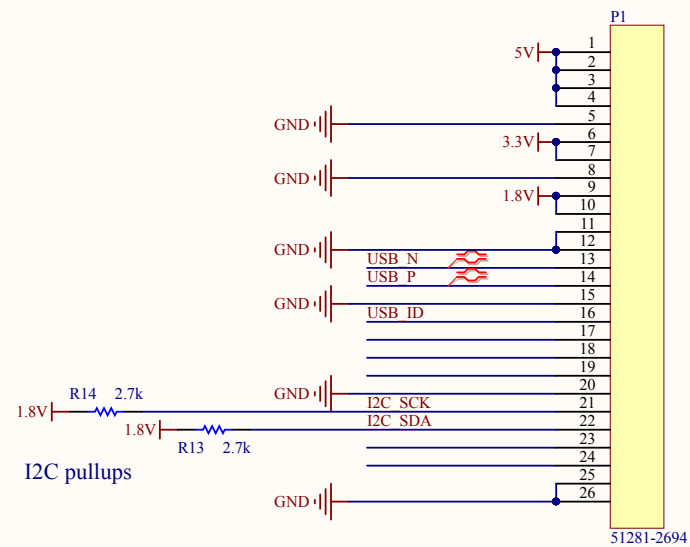
Bring out these signals on a ribbon cable:

1.8 V, GND

nRF 2-JTAG and UART

CC3200 4-JTAG and UART

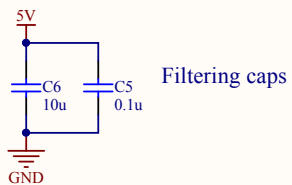
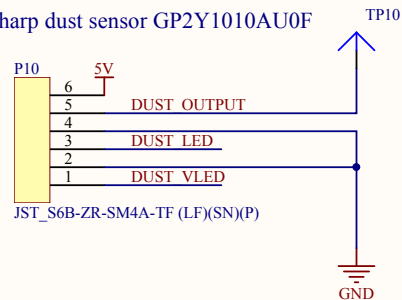
to the bottom board



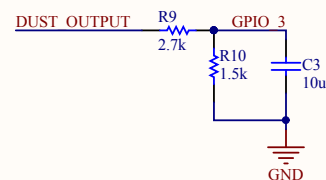
Hello

TITLE Morpheus_middle		REV 1
DATE 7/22/2014	DRAWN BY D. Fusi	SHEET 2 OF 6

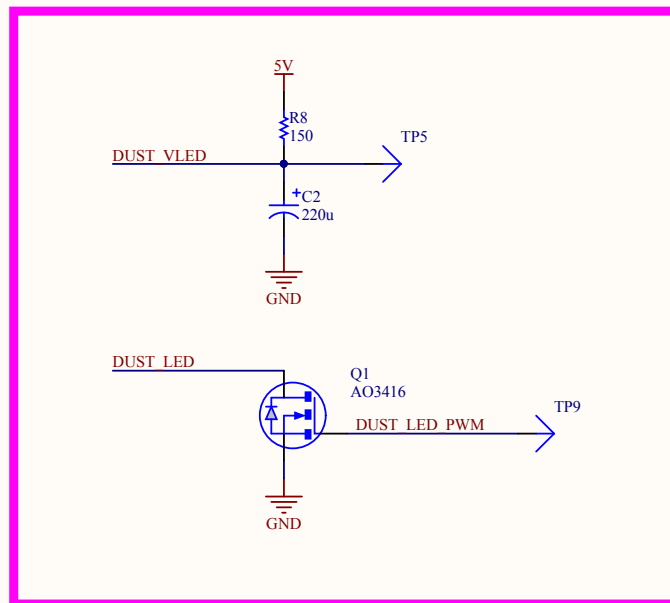
Connector for Sharp dust sensor GP2Y1010AU0F



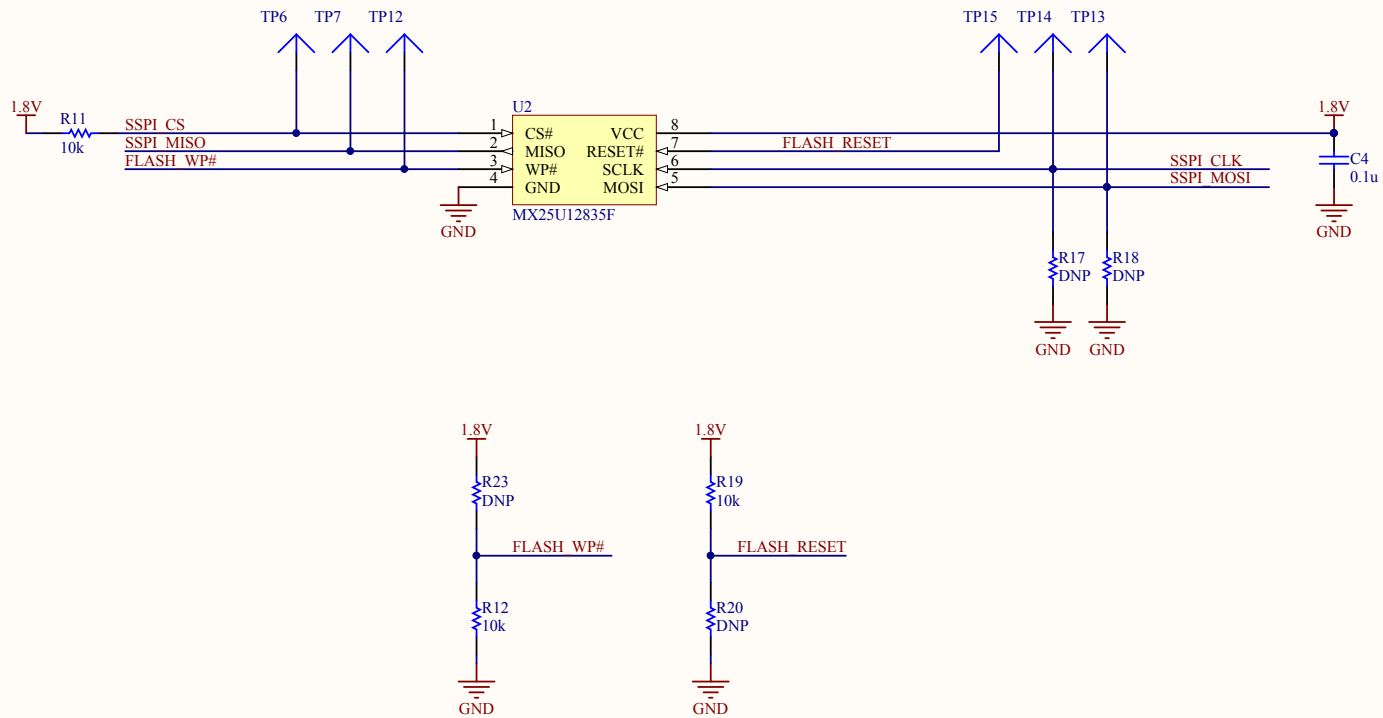
level shifting from 4V to 1.8V, plus anti-aliasing filter



As on the GP2Y1010 datasheet

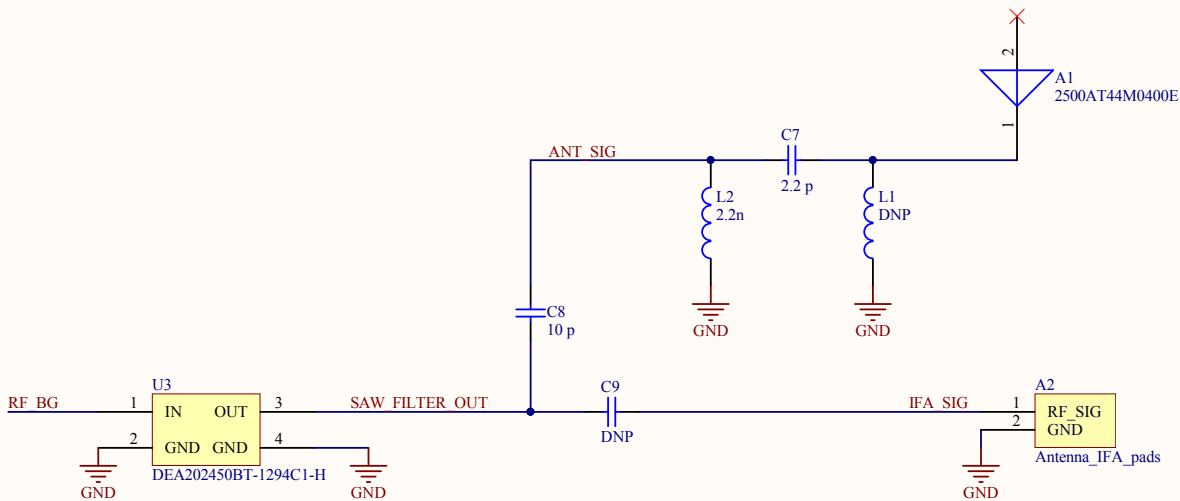


Hello		
TITLE	REV	
Air_quality	1	
DATE	DRAWN BY	SHEET 4 OF 6
7/17/2014	D. Fusi	



Datasheet is unclear, so for now we pull reset high and WP low

Hello		
TITLE	Flash memory	REV
DATE	7/17/2014	1
DRAWN BY	D. Fusi	SHEET 5 OF 6



Hello

TITLE		REV
M4F_MCU_Antennas		1
DATE	DRAWN BY	SHEET 6 OF 6
7/17/2014	D. Fusi	