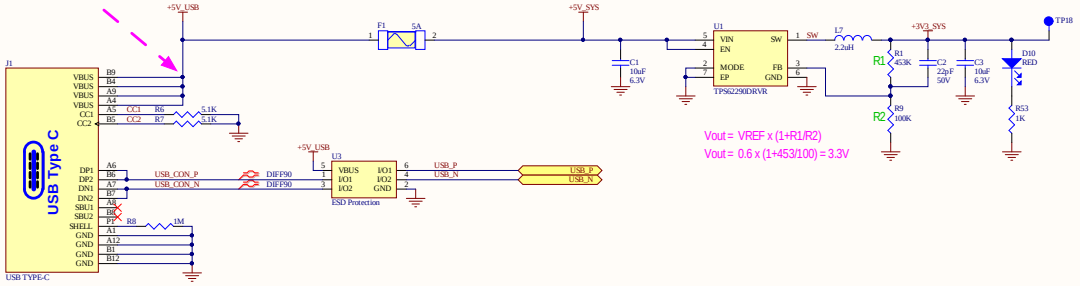
POWER

Current rating:3A collectively for VBUS pins(i.e.,pinsA4,A9,B4,and B9)



Vout = VREF x (1+R1/R2)

Vout = 0.6 x (1+453/100) = 3.3V

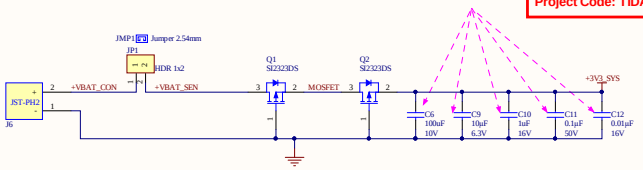
SYS PWR

LOW ESL CAP

DESIGN NOTE:

Reference Design: Low Power CO Gas Sensor w/ BLE Connectivity from Texas Instrument

Project Code: TIDA-00756



Designer: SAEID FALLAH	Project Title: IOT EV-BOARD		
Drawn by: SAEID FALLAH	Page Title: [3]-POWER.SchDoc		
Approved: Calibronic	Size: A2	Variant: [No Variations]	Rev: A
	Date: 6/11/2021	Sheet: 4 of 11	

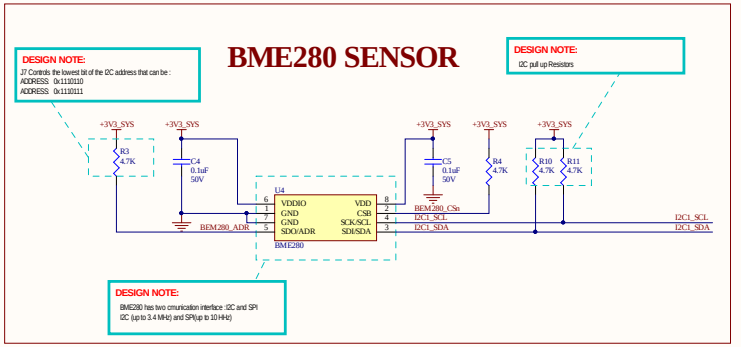
Useful informtion

SAR ADC

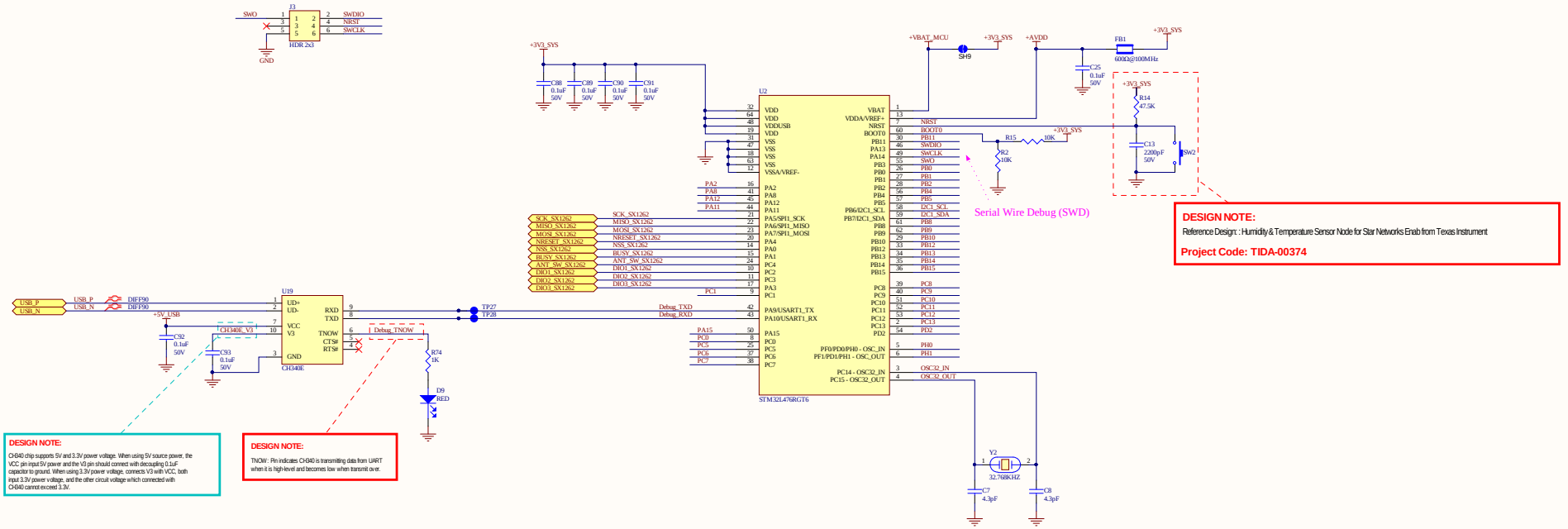
The ADC embedded in STM32 microcontrollers uses the SAR (successive approximation register) principle, by which the conversion is performed in several steps. The number of conversion steps is equal to the number of bits in the ADC converter.

MCU

BME280 SENSOR



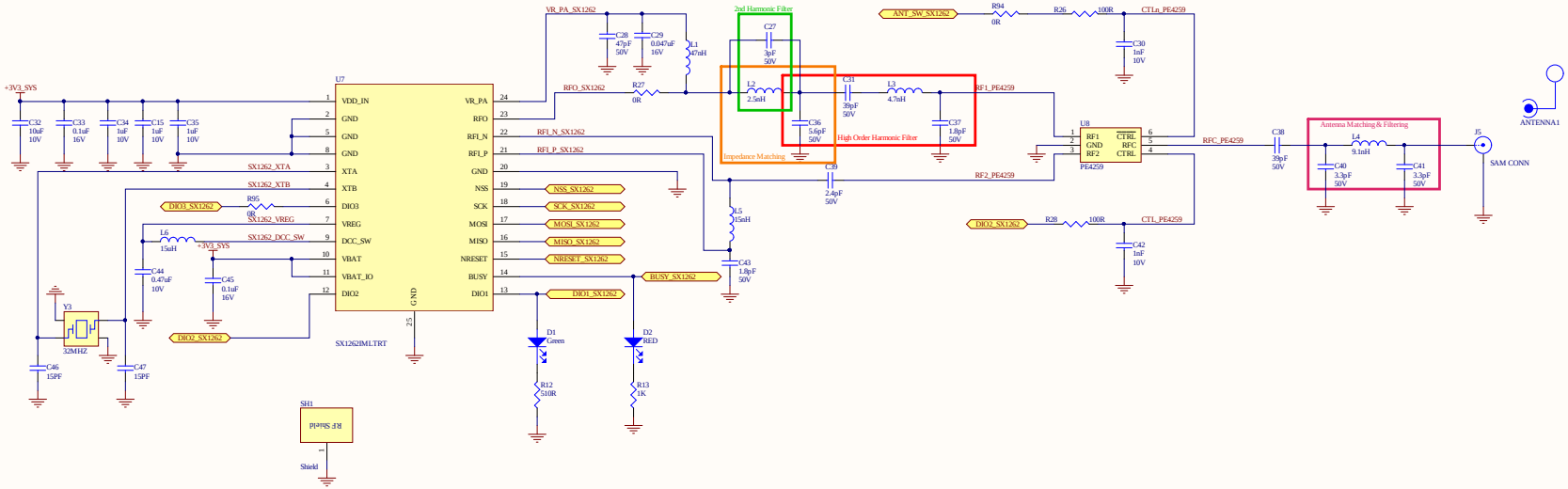
SWD Programmer



Designer: SAEID FALLAH	Project Title: IOT EV-BOARD	
Drawn by: SAEID FALLAH	Page Title: [4]-MCU.SchDoc	
Approved: Calibronic	Size: A2	Variant: [No Variations]
	Date: 6/11/2021	Sheet: 5 of 11

Sx1262/ LoRa

Sx1262 LoRa IC



Designer: SAEID FALLAH	Project Title: IOT EV-BOARD
Drawn by: SAEID FALLAH	Page Title: [5]-LoRa Module.SchDoc
Approved: Calibronic	Size: A2 / Variant: [No Variations] / Rev: A
	Date: 6/11/2021 / Sheet 7 of 11

Mounting Holes

Logo_Calibronic

Mounting holes 7.4mm pad 3.2mm drill
BOARD MOUNTING HOLES
ONE IN EACH CORNER

FIDUCIALS

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Drawn By: SAEID FALLAH	Page Title: [6]- Mechanical.SchDoc		
Approved: Calibronic	Size: A2	Variant: [No Variations]	Rev: A
	Date: 6/11/2021	Sheet 10 of 11	