

Sheetname: MCU



Sheetname: Power

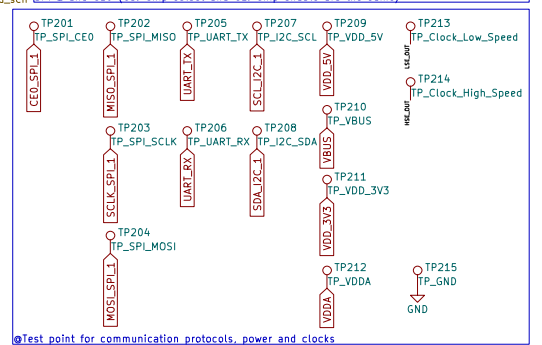
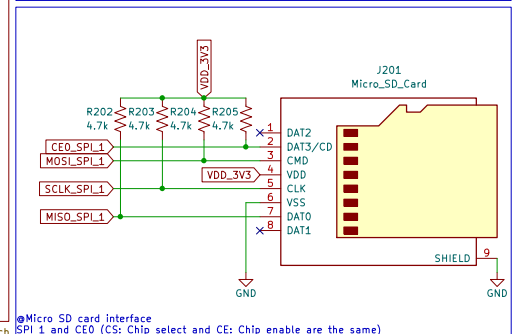
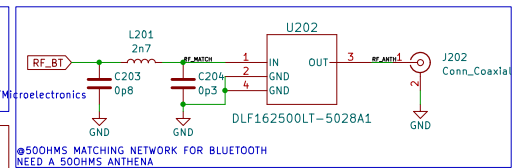
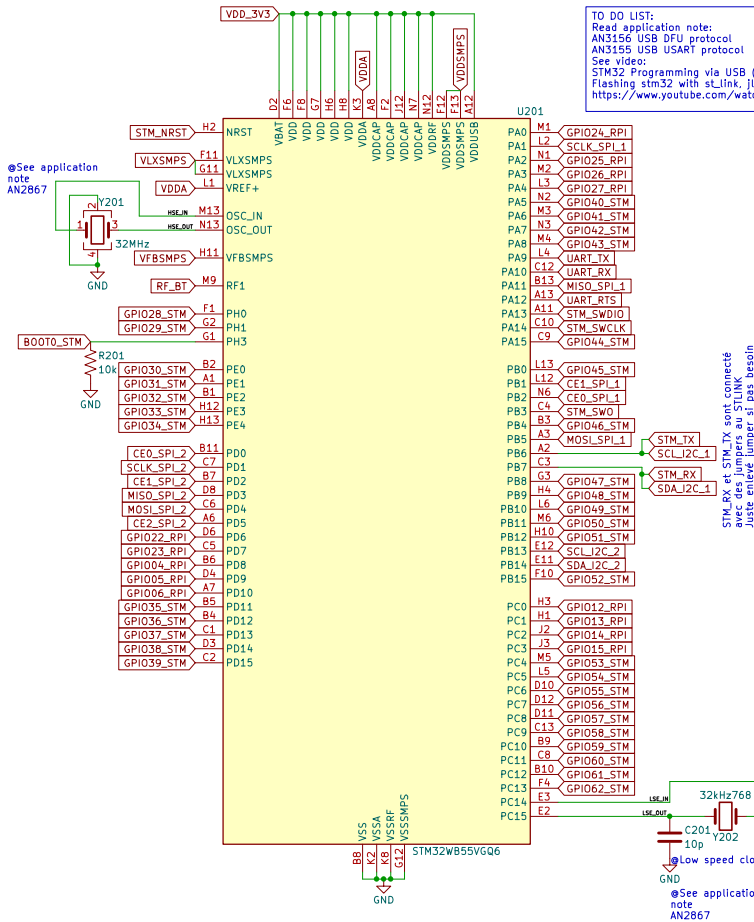


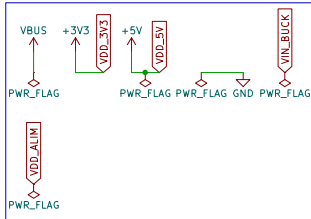
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Sheetname: Sensors_Connections



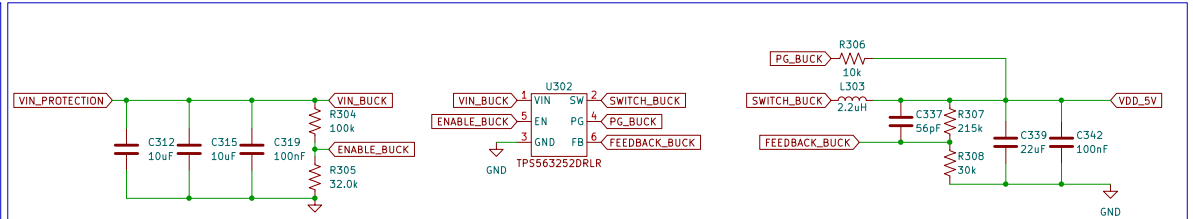
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Sheetfile: SENSORS_SONNECTIONS.kicad_sch

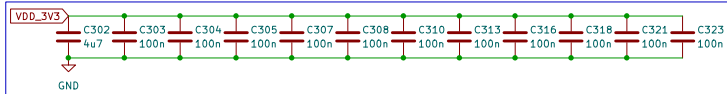




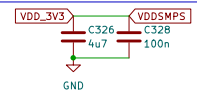
@Gestion de Power Flag



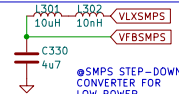
@Circuit Buck convertir entrée 12 à 4V sortie 3V3



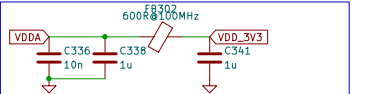
@Decoupling capacitor for VDD (digital)



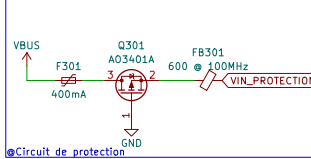
@VDDSMPS decoupling



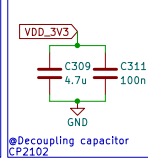
@SMPS STEP-DOWN CONVERTER FOR LOW POWER



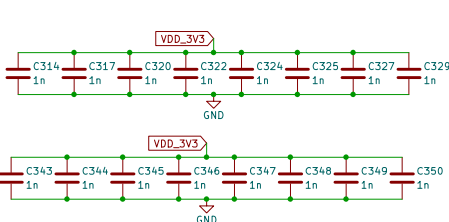
@Analog VDD filtering



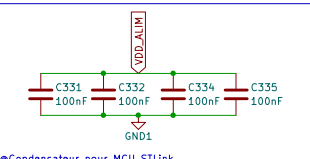
@Circuit de protection



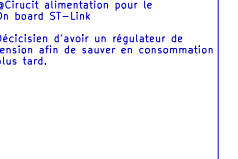
@Decoupling capacitor CP2102



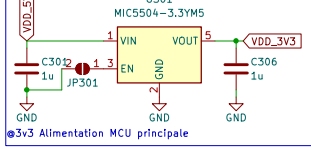
@Condensateur pour le circuit de protection statique (I2C)



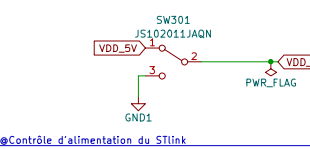
@Condensateur pour MCU_STLink



@Circuit alimentation pour le On board ST-Link



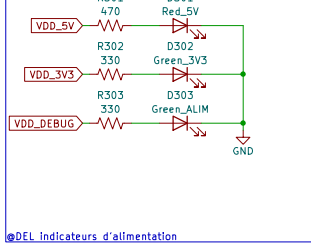
@3V3 Alimentation MCU principale



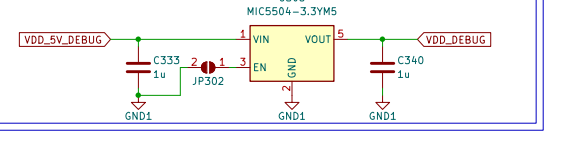
@Contrôle d'alimentation du STLink



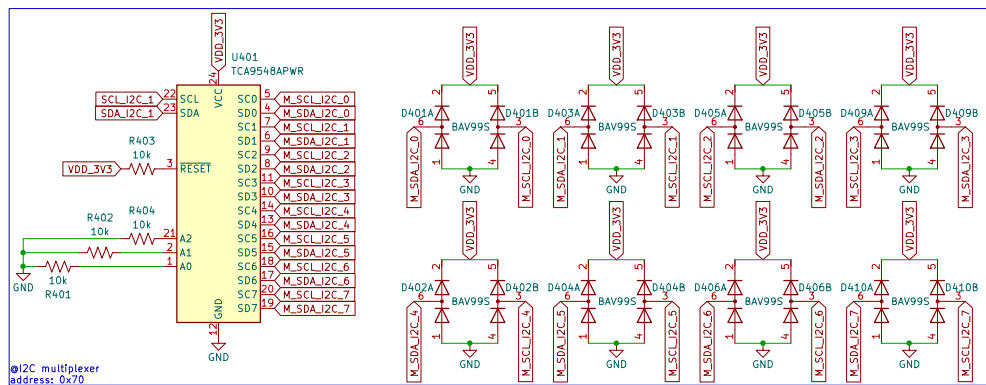
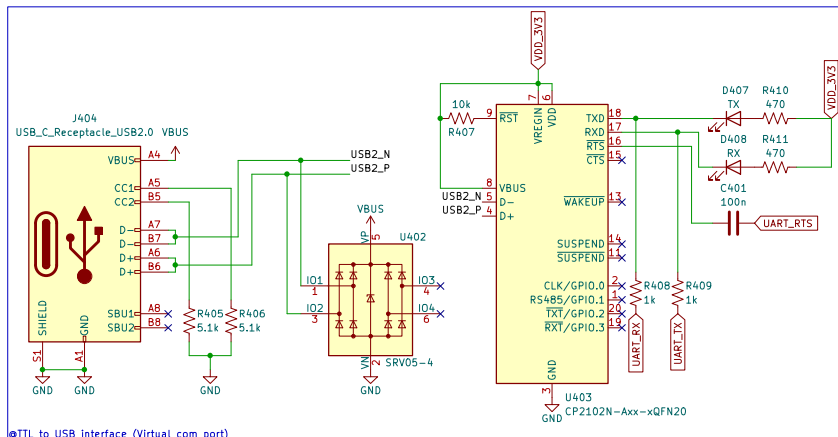
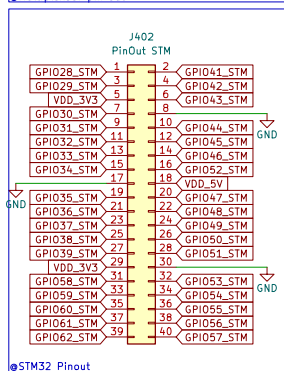
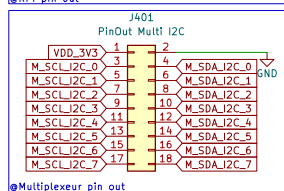
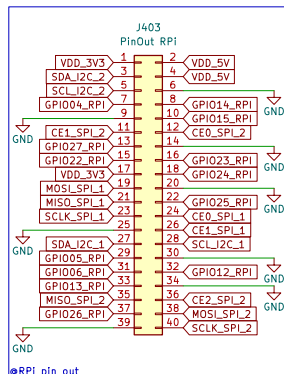
@Contrôle d'alimentation du STLink



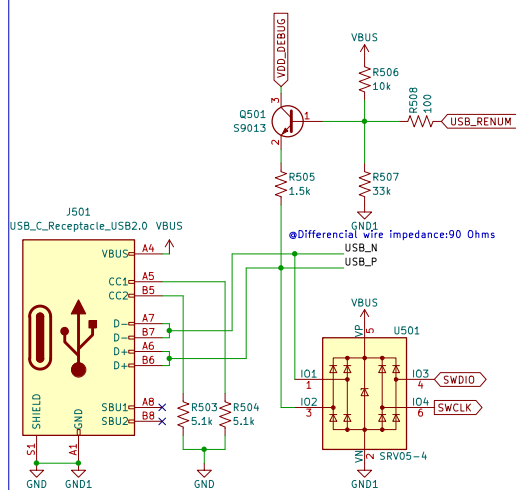
@DEL Indicateurs d'alimentation



@Contrôle d'alimentation du STLink



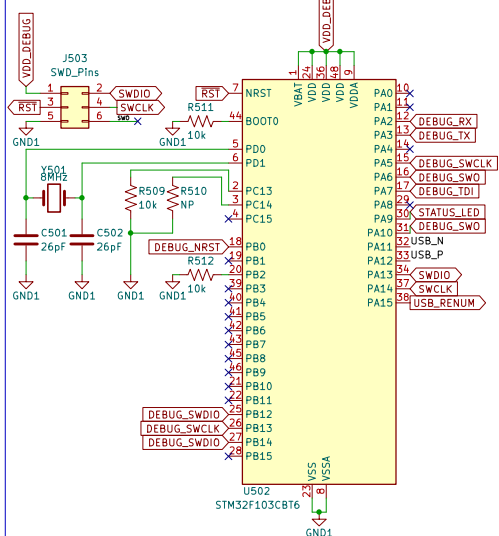
④Interface USB-C avec protection



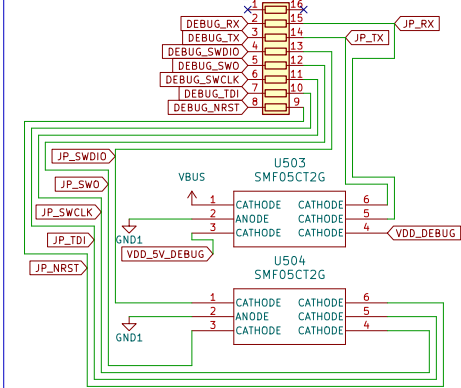
④DEL indicateurs de communication



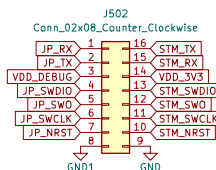
④MCU du Stlink avec Pins pour la programmation



④Circuit de protection de sortie STlink



STlink for bluetooth:
 -doesn't need level shifter (3V3 to 3V3 wowie)
 -doesn't need swdio and swd led
 -the switches are expensive, can get same results with jumpers and pin headers for cheaper
 -VBUS probablement problématique pour le SMF05 (circuit de protection)
 EXEMPLE: si VBUS est à 12V (batterie) SMF05 va skadouch



④Sortie STlink