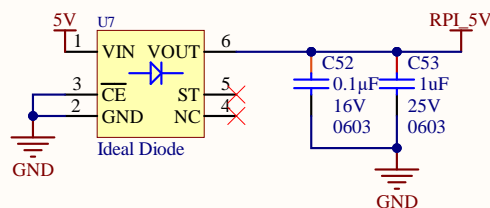
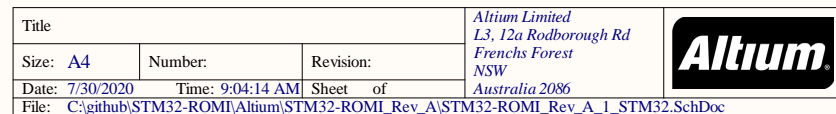


$$\begin{aligned} 10 \text{ RGB} * 0.015\text{A} &= 0.15\text{A} \\ 3.3\text{V LDO} &= 0.80\text{A} \end{aligned}$$

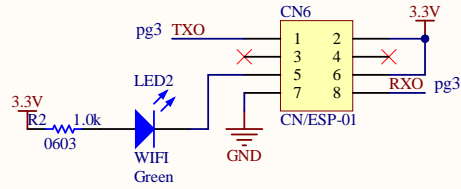

Ideal Diodes are used to power the pi off of the board voltages. This will prevent issues if the pi tries to backpower the board



Title			Power		
Size	Number			Revision	
A	*			A	
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File:	C:\github\STM32-ROMI Rev A 4 V1			Dr Sch Doc *	

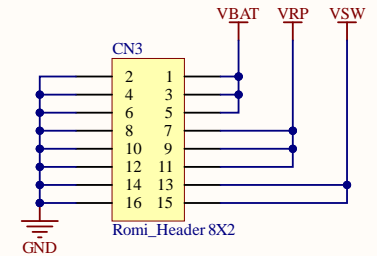
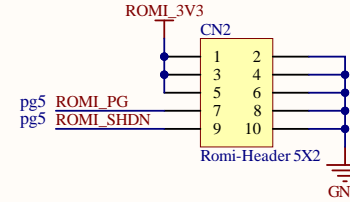
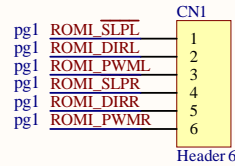


ESP-01

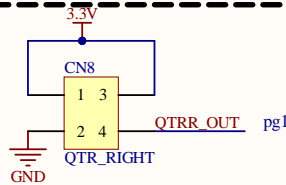
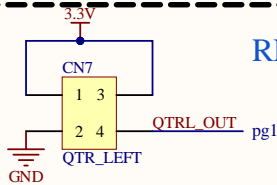


URXD: connect to TX of microcontroller
UTXD: connect to RX of microcontroller
GPIO0: connect to RESET of microcontroller
GPIO2: optionally connect green LED to 3.3V (indicates wifi status)

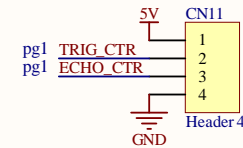
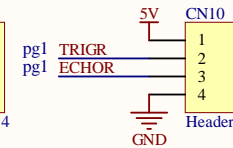
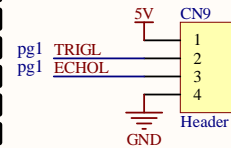
ROMI CONNECTOR



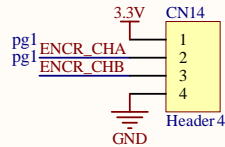
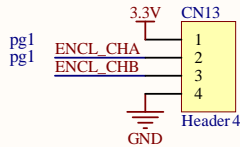
REFLECTOR



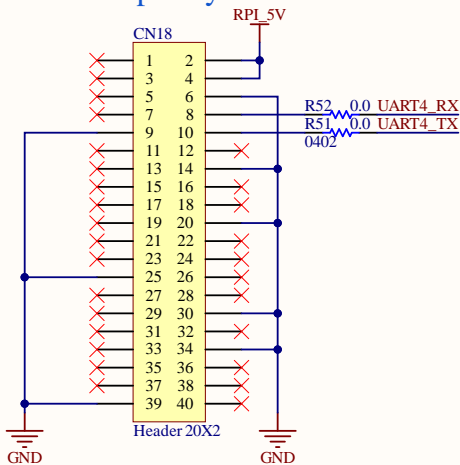
SONAR



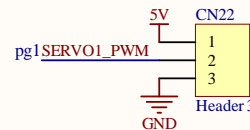
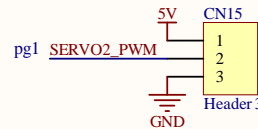
ENCODERS



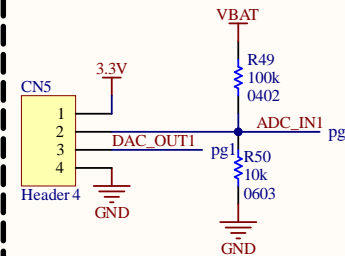
Raspberry Pi



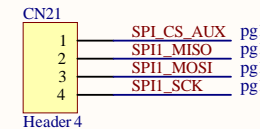
SERVOS



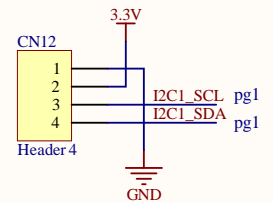
ADC/DAC




SPI1



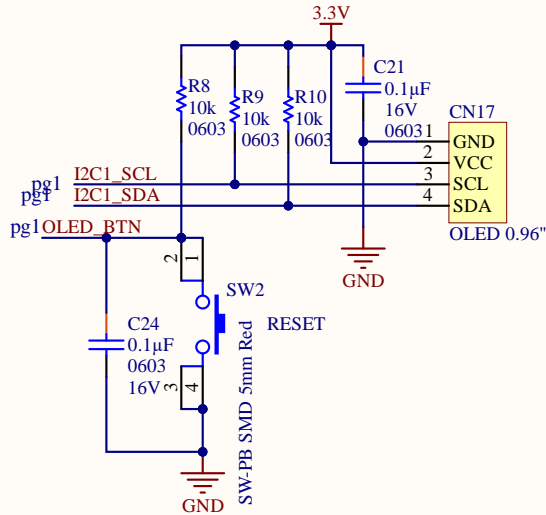
I2C1



Title			Altium Limited L3, 12a Rodborough Rd Frenchs Forest NSW Australia 2086		
Size: A4	Number:	Revision:			
Date: 7/30/2020	Time: 9:04:14 AM	Sheet of			
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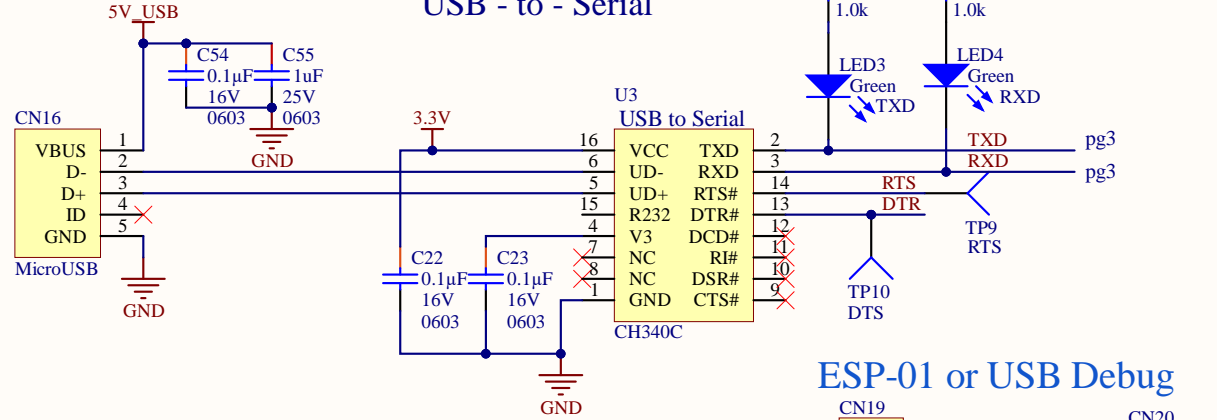


OLED Screen

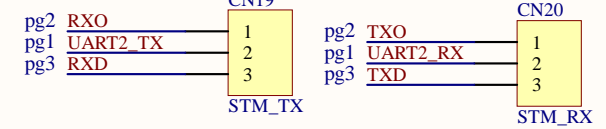


USB PCB Spec

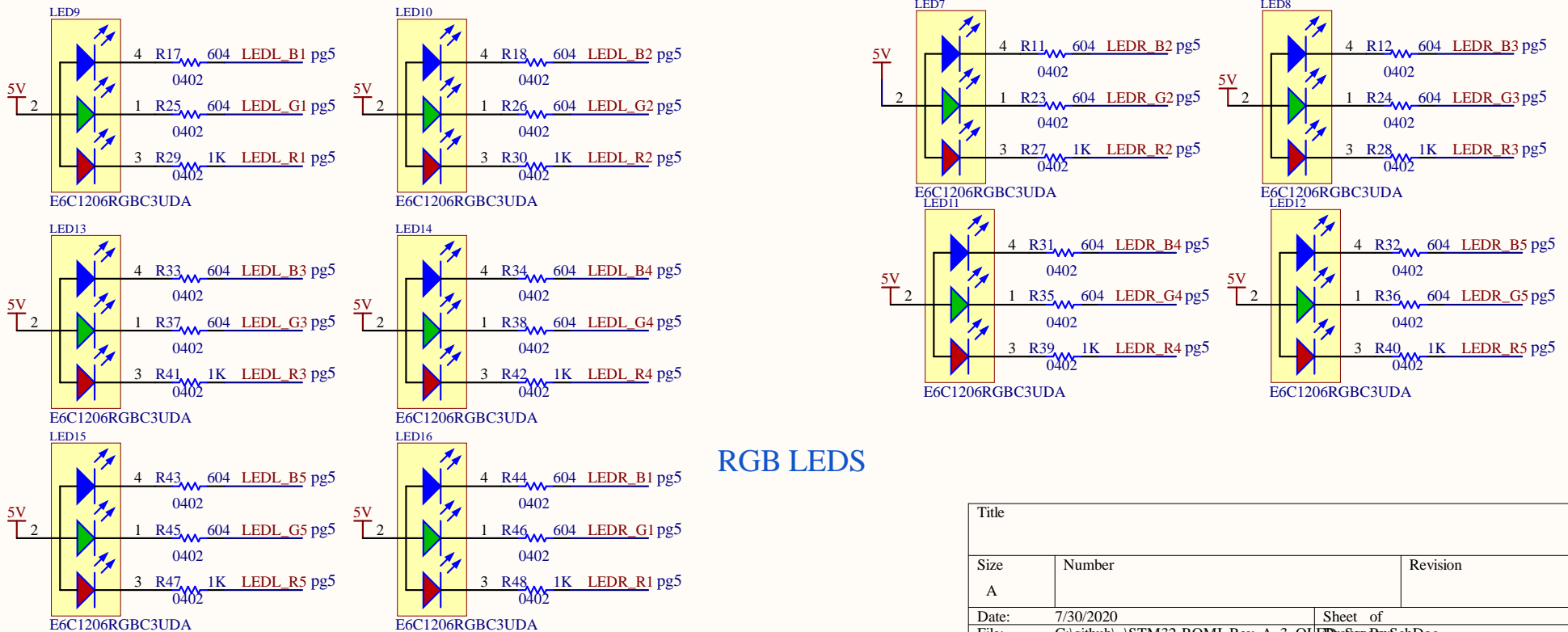
USB - to - Serial



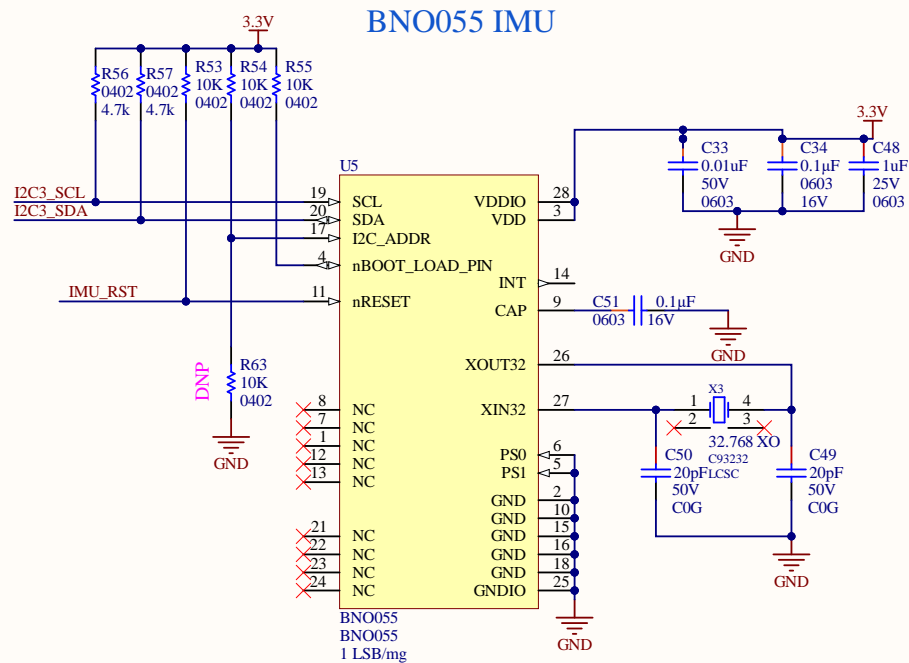
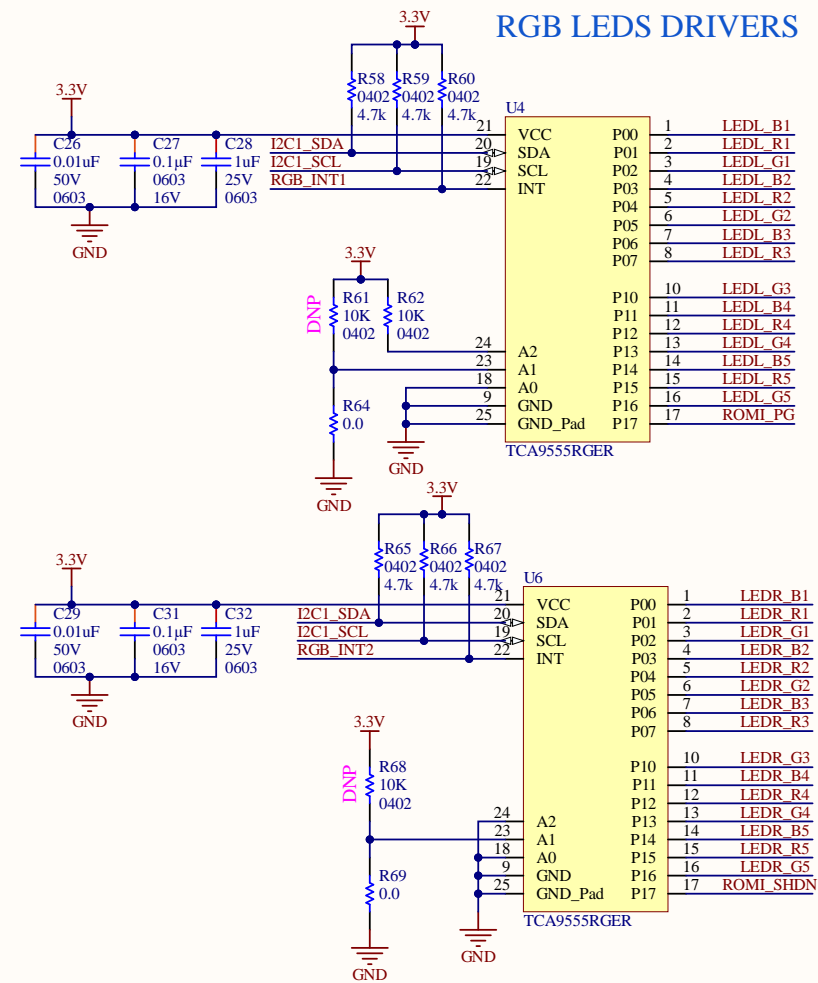
ESP-01 or USB Debug



RGB LEDS



Title		
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File:	C:\github\STM32-ROMI_Rev_A_3_OLED_SchDoc	Drawn by: SchDoc



CAN BUS

