

32F723EDISCOVERY

MB1260

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Legend

General comment such as function title, configuration, ...

Text to be added to silkscreen.

Warning text.

A

Notes to generate the board layout.

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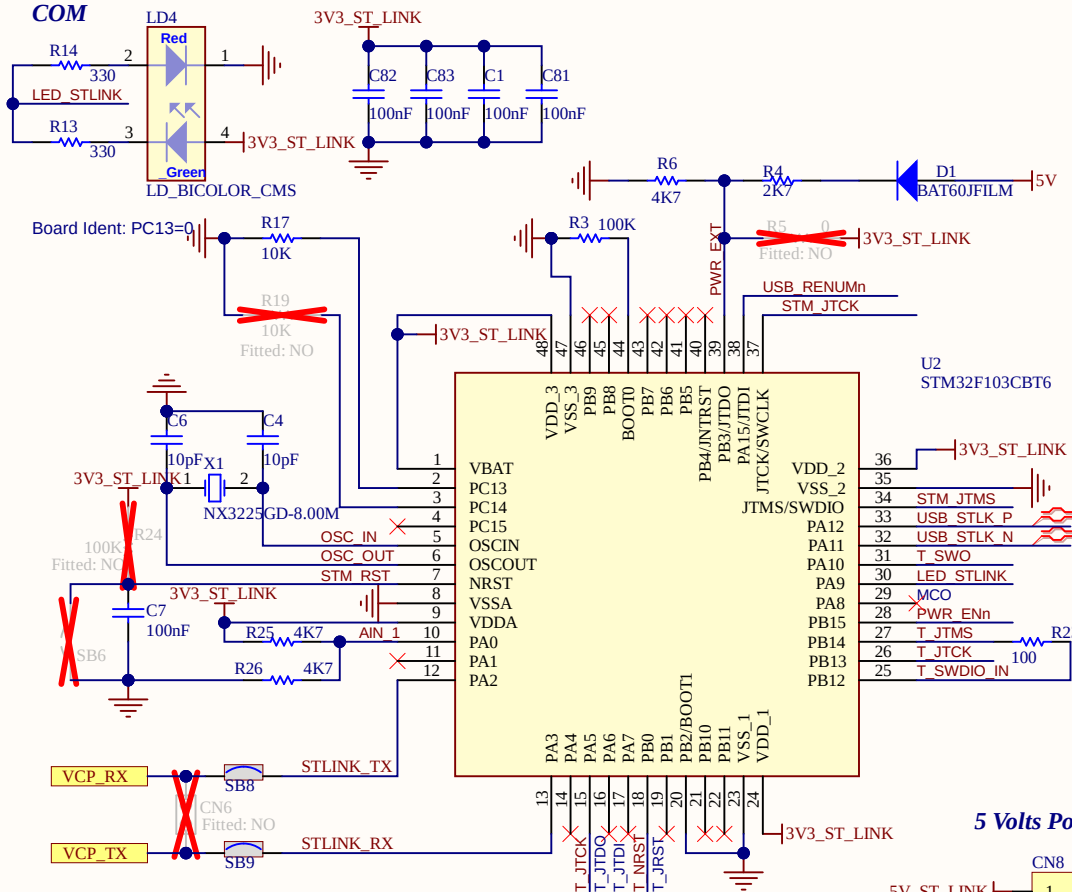
U_Top
Top.SchDoc



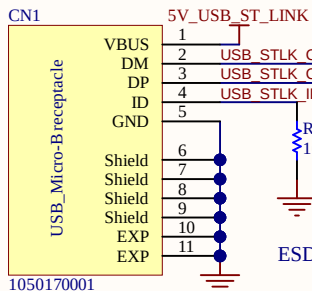
Title: Project overview		
Project: 32F723EDISCOVERY		
Variant: F723E		
Revision: D-01	Reference: MB1260	
Size: A4	Date: 19/12/2016	Sheet: 1 of 13



COM

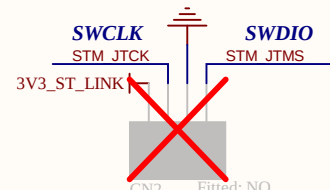
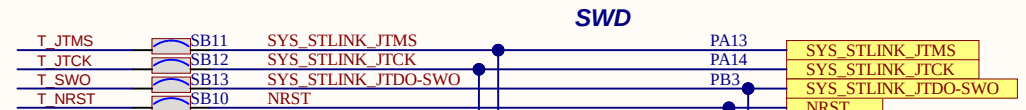


ST-LINK USB CONNECTOR



ESD PROTECTION SHOULD BE CLOSED TO THE CONNECTOR

1050170001



Must be on a border or the PCB.

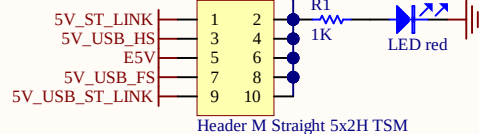


Must be on a border or the PCB.

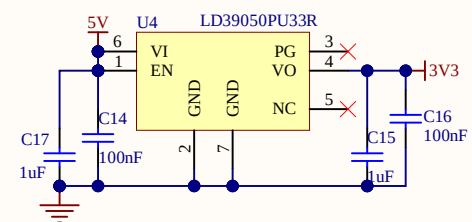


SHUNT_BK
Fitted: YES on CN8 pin1-2

5 Volts Power Supply

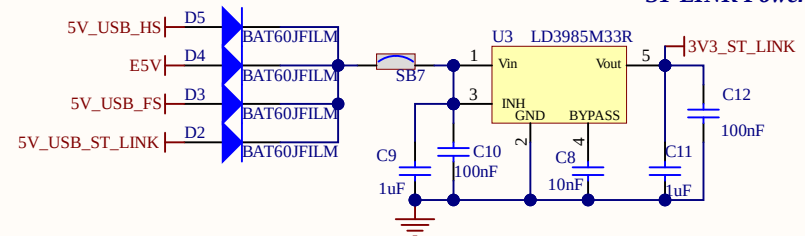


5 Volts Output

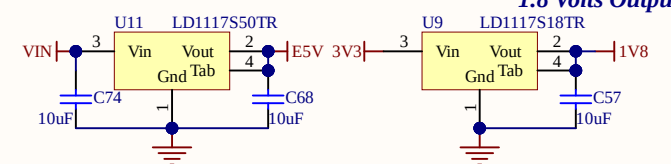


3.3 Volts Output

ST-LINK Power



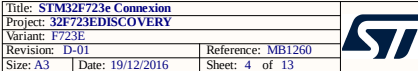
Arduino UNO power pin



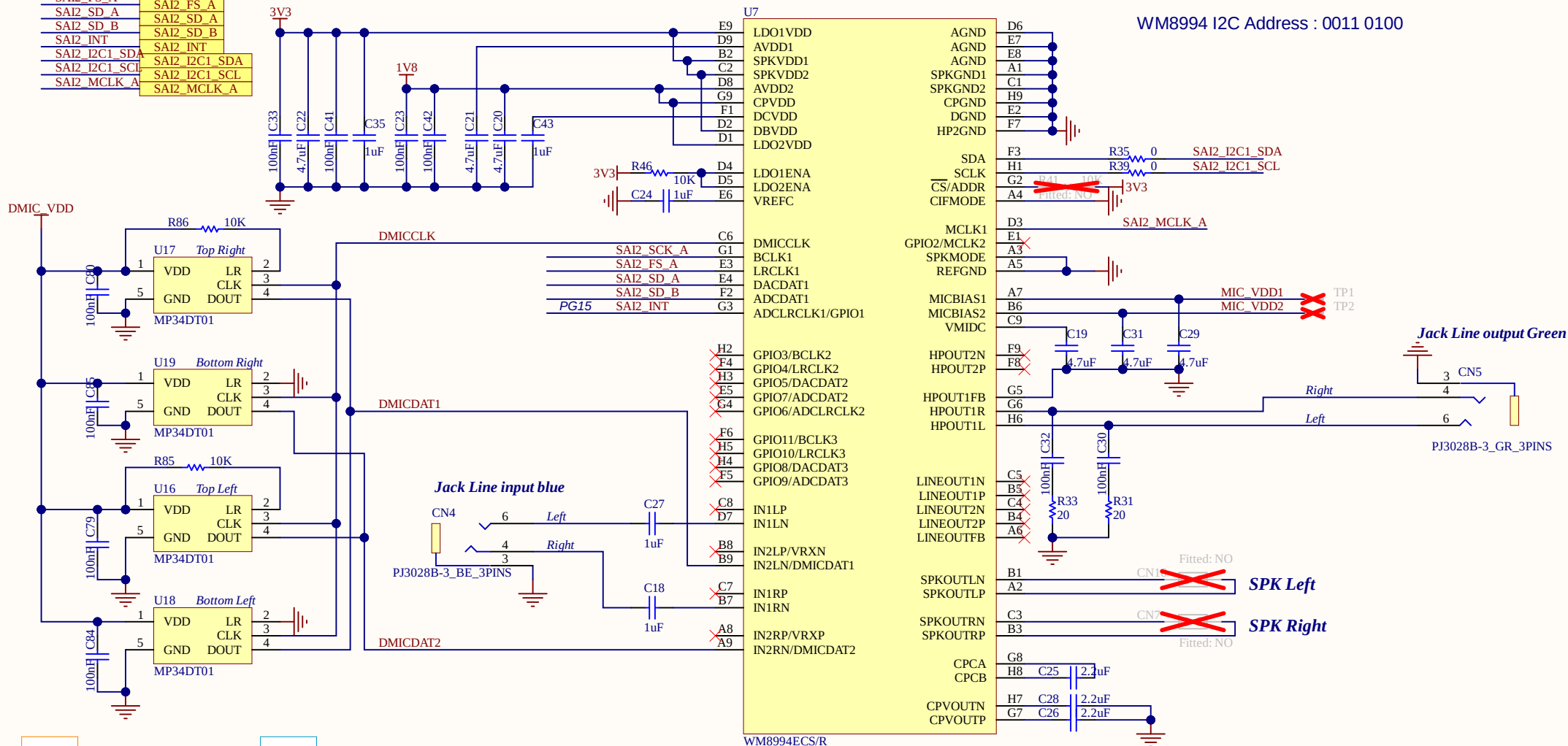
1.8 Volts Output

Title: ST-LINK/V2-1 with support of SWD only	
Project: 32F723EDISCOVERY	
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Revision: D-01	Reference: MB1260
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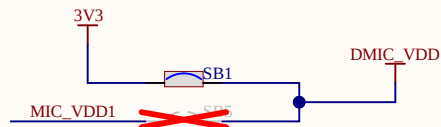
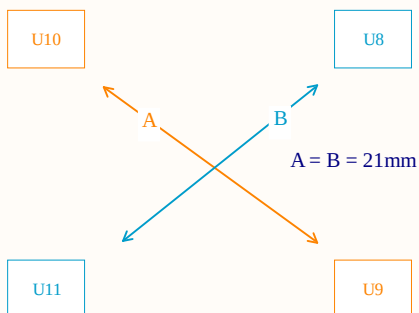


SAI2_SCK_A	SAI2_SCK_A
SAI2_FS_A	SAI2_FS_A
SAI2_SD_A	SAI2_SD_A
SAI2_SD_B	SAI2_SD_B
SAI2_INT	SAI2_INT
SAI2_I2C1_SDA	SAI2_I2C1_SDA
SAI2_I2C1_SCL	SAI2_I2C1_SCL
SAI2_MCLK_A	SAI2_MCLK_A

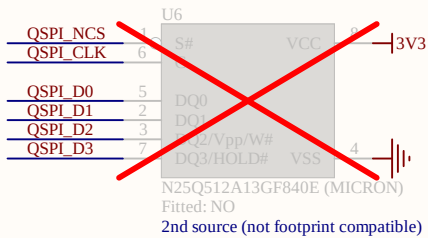
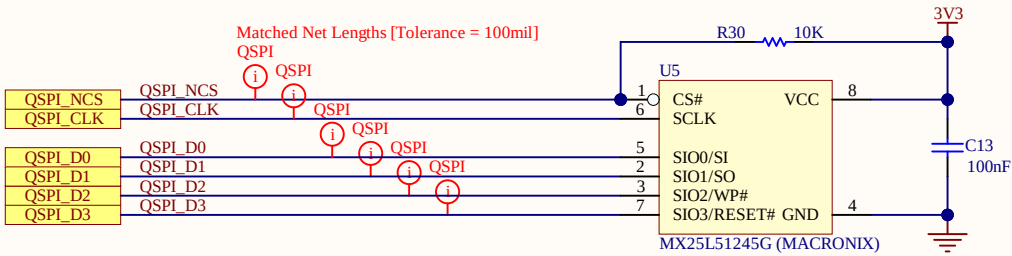


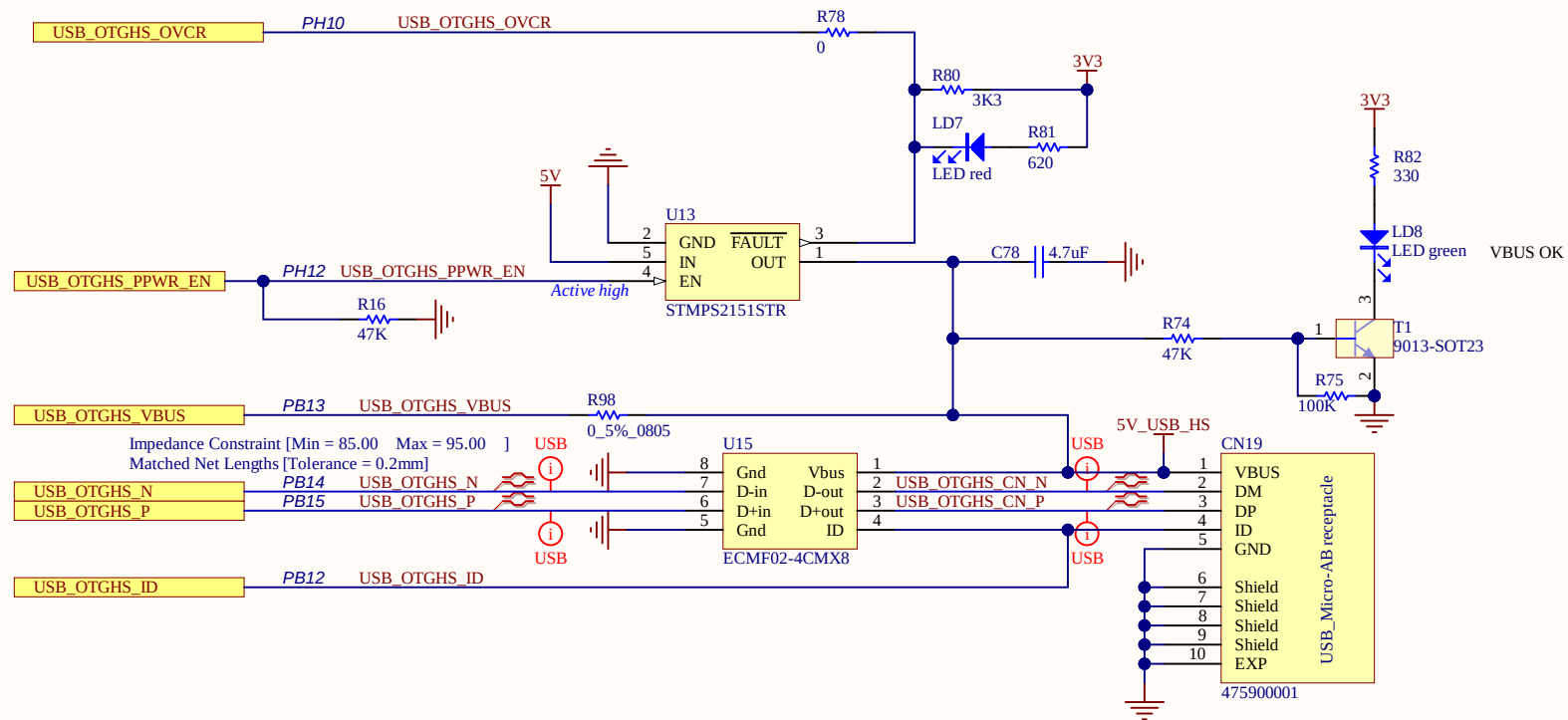
WM8994 I2C Address : 0011 0100

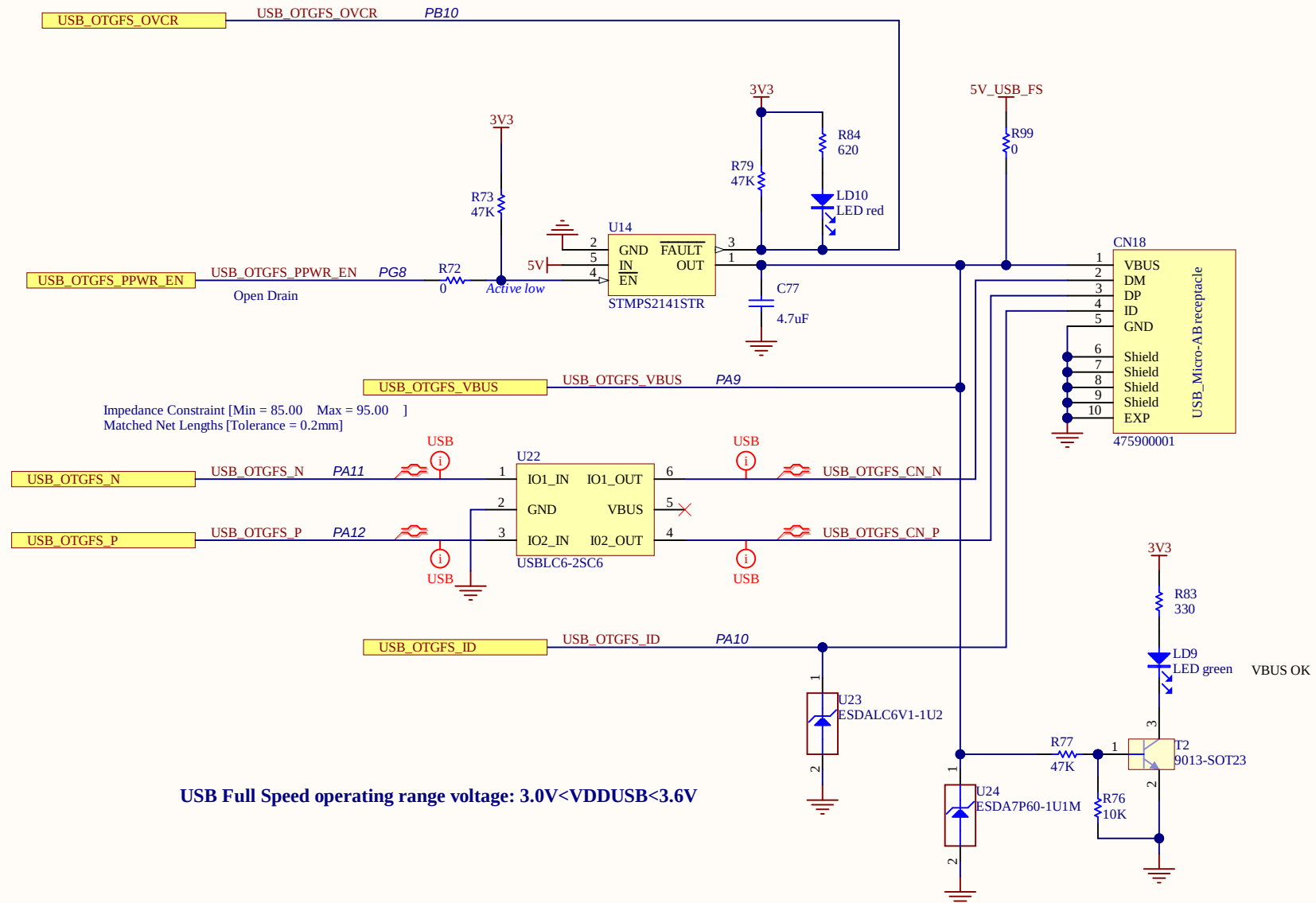
WM8994ECS/R



Quad SPI Flash Memory

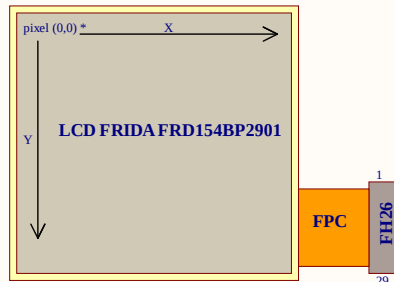




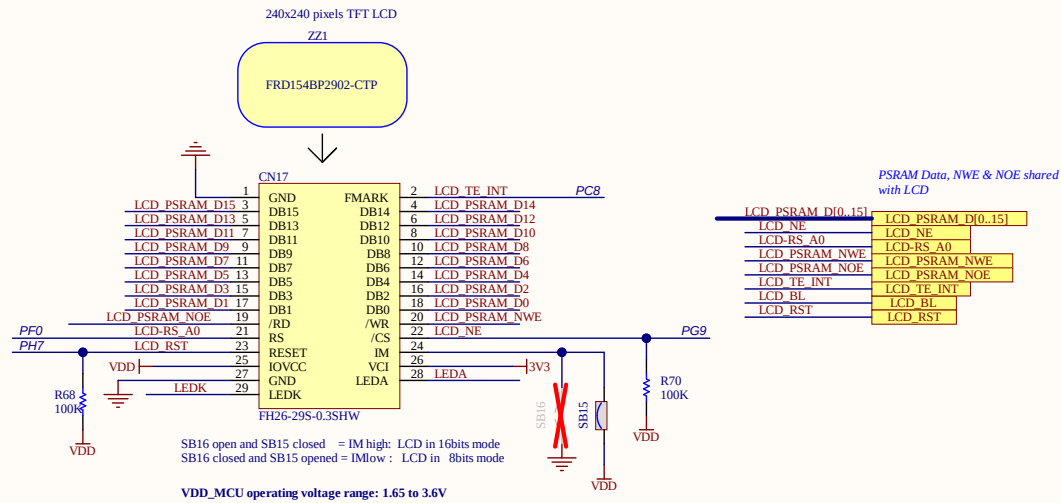


LCD FRIDA

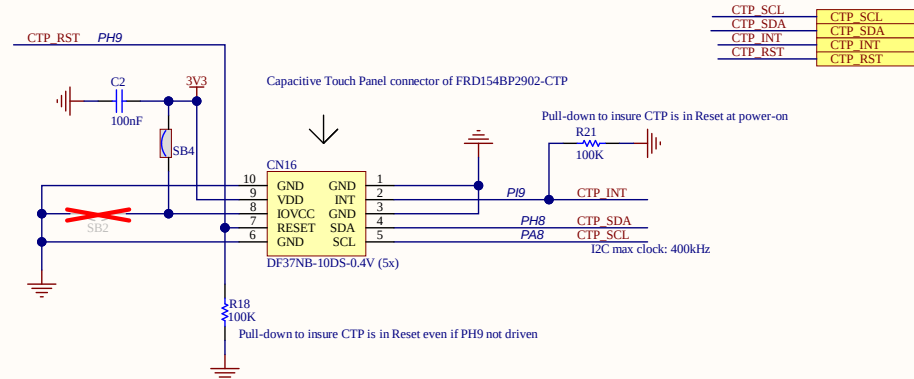
Top side: layout of CN12



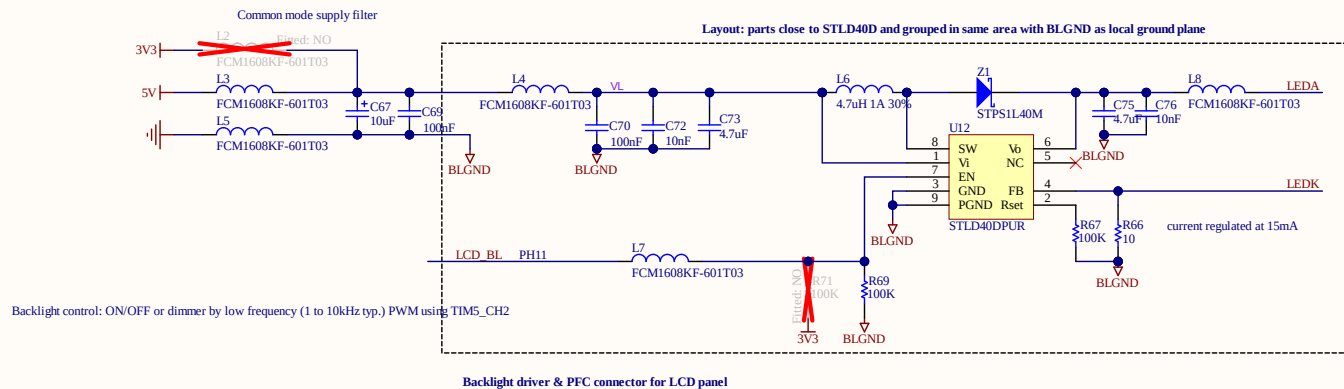
*: standard orientation. Rotations by 90, 180, 270 degrees possible by registers.



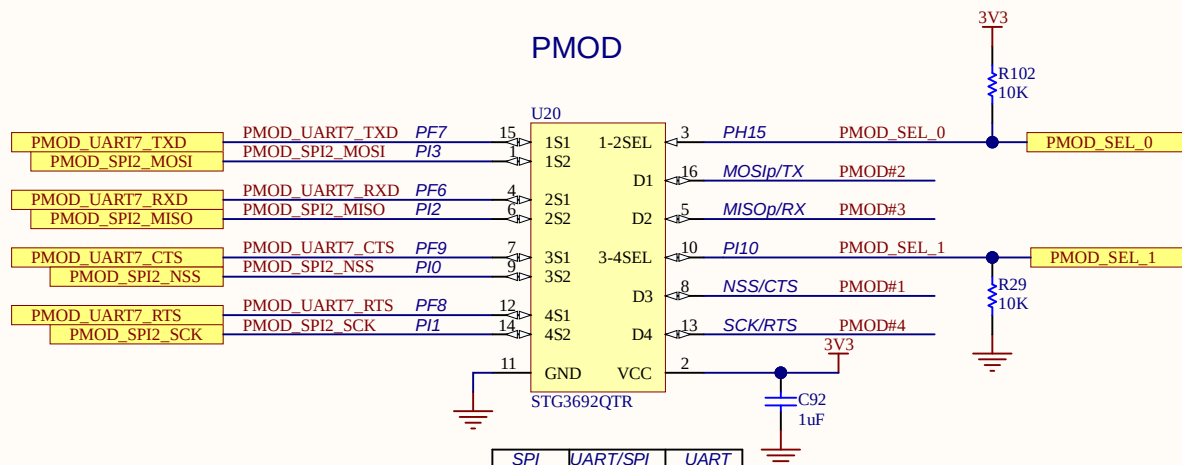
CONTROL TOUCH PANEL



LCD BACKLIGHT

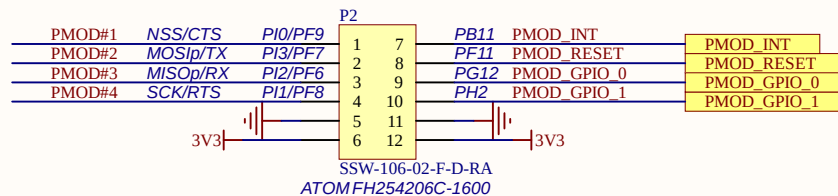


PMOD



	SPI	UART/SPI	UART
PMOD_SEL_0	0	1 (*)	1
PMOD_SEL_1	0	0 (*)	1
PMOD#1	NSS	NSS	CTS
PMOD#2	MOSIp	TX	TX
PMOD#3	MISOp	RX	RX
PMOD#4	SCK	SCK	RTS

(*) default configuration to support MikroBus modules using MB1280 fan-out board

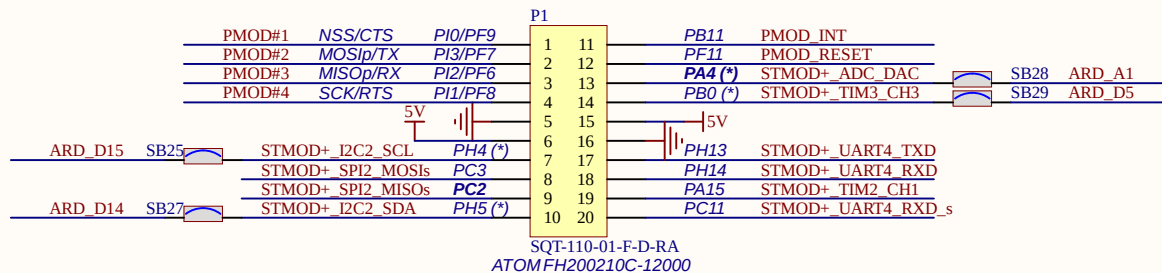


STMod+

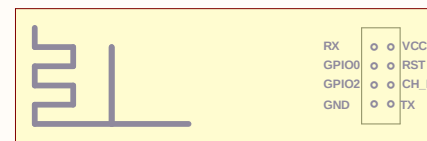
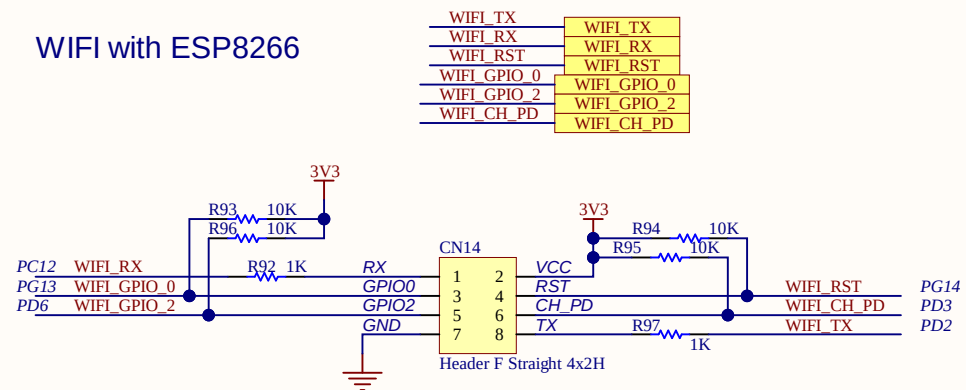
ARD_A1	ARD_A1
ARD_D5	ARD_D5
ARD_D14	ARD_D14
ARD_D15	ARD_D15

(*)
ARD A1 conflict with STMOD+ ADC DAC (PA4)
ARD D5 conflict with STMOD+ PWM (PB0)
ARD D14 shared with STMOD+ I2C2 SDA (PH5)
ARD D15 shared with STMOD+ I2C2 SCL (PH4)

STMOD+ SPI2_MISOs	STMOD+ SPI2_MISOs
STMOD+ SPI2_MOSIs	STMOD+ SPI2_MOSIs
STMOD+ UART4_TXD	STMOD+ UART4_TXD
STMOD+ UART4_RXD	STMOD+ UART4_RXD
STMOD+ TIM2_CH1	STMOD+ TIM2_CH1
STMOD+ UART4_RXD_s	STMOD+ UART4_RXD_s



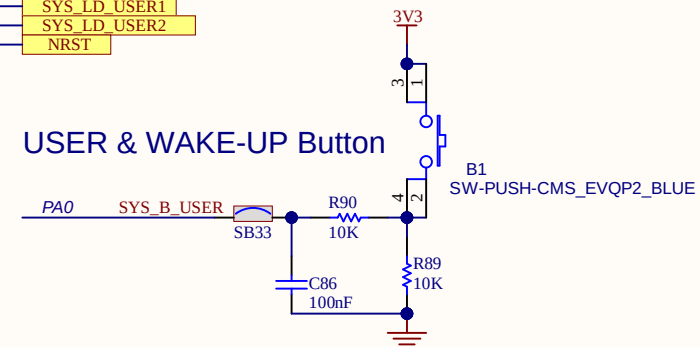
WIFI with ESP8266



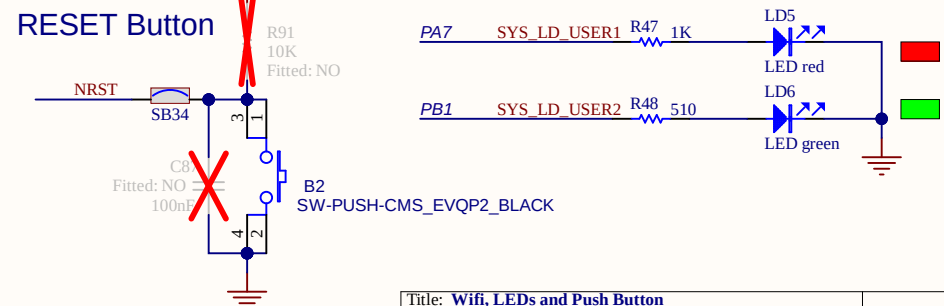
ESP8266-01

SYS_B_USER	SYS_B_USER
SYS_LD_USER1	SYS_LD_USER1
SYS_LD_USER2	SYS_LD_USER2
NRST	NRST

USER & WAKE-UP Button



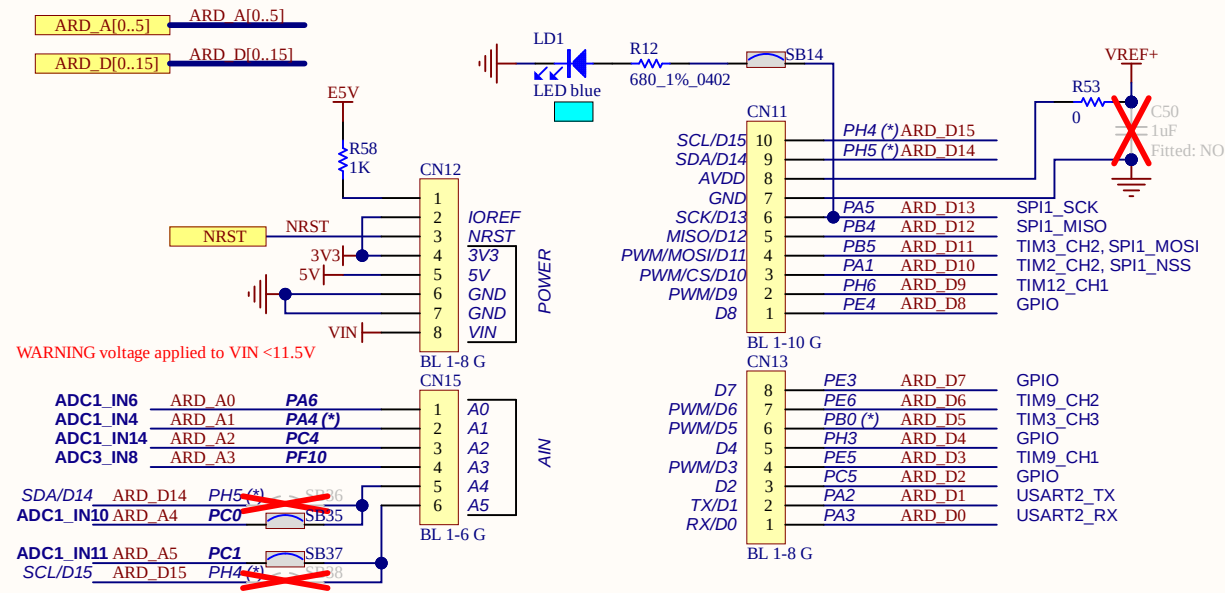
LEDs



Title: Wifi, LEDs and Push Button	Reference: MB1260
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Arduino UNO connector



HW Mechanical parts

