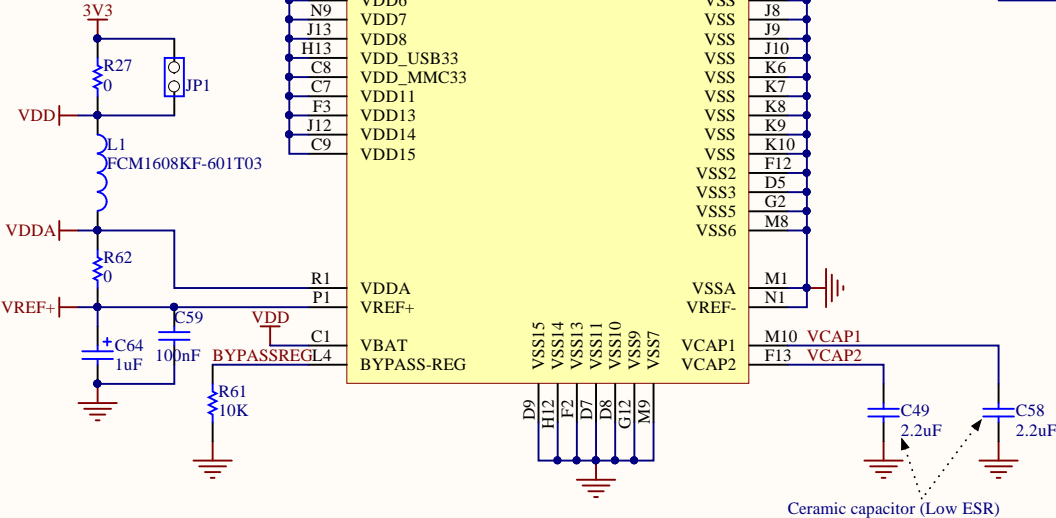


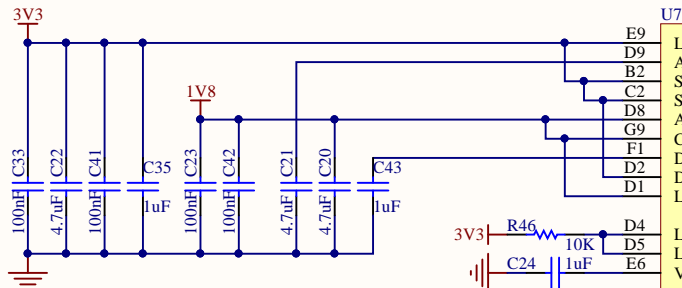
	SPI	UART/SPI	UART
PMOD_SEL_0	0	1 (*)	1
PMOD_SEL_1	0	0 (*)	1
PMOD#1	NSS	NSS	CTS
PMOD#2	MOSIp	TX	TX
PMOD#3	MISOp	RX	RX
PMOD#4	SCK	SCK	RTS

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



SAI2_SCK_A
SAI2_FS_A
SAI2_SD_A
SAI2_SD_B
SAI2_INT
SAI2_I2C1_SDA
SAI2_I2C1_SCL
SAI2_MCLK_A

SAI2_SCK_A
SAI2_FS_A
SAI2_SD_A
SAI2_SD_B
SAI2_INT
SAI2_I2C1_SDA
SAI2_I2C1_SCL
SAI2_MCLK_A



DMIC_VDD

R86 10K

U17 Top Right

VDD LR

CLK DOUT

GND

MP34DT01

U19 Bottom Right

VDD LR

CLK DOUT

GND

MP34DT01

U16 Top Left

VDD LR

CLK DOUT

GND

MP34DT01

U18 Bottom Left

VDD LR

CLK DOUT

GND

MP34DT01

DMICCLK

DMICDAT1

DMICDAT2

Jack Line input blue

PJ3028B-3_BE_3PINS

3V3

MIC_VDD1

DMIC_VDD

U7
LDO1VDD
AVDD1
SPKVDD1
SPKVDD2
AVDD2
CPVDD
DCVDD
DBVDD
LDO2VDD
LDO1ENA
LDO2ENA
VREFC

C6
DMICCLK
G1
SAI2_SCK_A
BCLK1
E3
SAI2_FS_A
LRCLK1
E4
SAI2_SD_A
DACDAT1
F2
SAI2_SD_B
ADCAT1
G3
PG15
SAI2_INT
ADCLRCLK1/GPIO1

H2
GPIO3/BCLK2
F4
GPIO4/LRCLK2
H3
GPIO5/DACDAT2
E5
GPIO7/ADCAT2
G4
GPIO6/ADCLRCLK2
F6
GPIO11/BCLK3
H5
GPIO10/LRCLK3
H4
GPIO8/DACDAT3
F5
GPIO9/ADCAT3

C8
D7
IN1LP
D
IN1LN
B8
IN2LP/VRXN
B9
IN2LN/DMICDAT1
C7
B7
IN1RP
A8
IN1RN
A9
IN2RP/VRXP
IN2RN/DMICDAT2

WM8994ECS/R

WM8994 I2C Address : 0011 0100

AGND
AGND
AGND
SPKGND1
SPKGND2
CPGND
DGND
HP2GND

SDA
SCLK
CS/ADDR
CIFMODE

MCLK1
GPIO2/MCLK2
SPKMODE
REFGND

MICBIAS1
MICBIAS2
VMIDC

HPOUT2N
HPOUT2P
HPOUT1FB
HPOUT1R
HPOUT1L

LINEOUT1N
LINEOUT1P
LINEOUT2N
LINEOUT2P
LINEOUTFB

SPKOUTLN
SPKOUTLP
SPKOUTRN
SPKOUTRP

CPCA
CPCB

CPVOUTN
CPVOUTP

D6
E7
E8
A1
C1
H9
E2
F7

F3
H1
G2
A4

D3
E1
A3
A5

A7
B6
C9

F9
F8
G5
G6
H6

C5
B5
C4
B4
A6

B1
A2
C3
B3

G8
H8
H7
G7

C25
C28
C26

R35
R39
R41
Fitted: NO

SAI2_MCLK_A

MIC_VDD1
MIC_VDD2

C19
C31
C29

C32
C30
R33
R31

Fitted: NO
CN10

Fitted: NO
CN7

2.2uF
2.2uF
2.2uF

Jack Line output Green

TP1
TP2

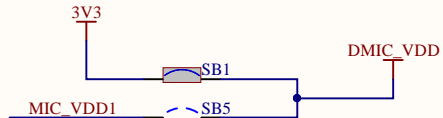
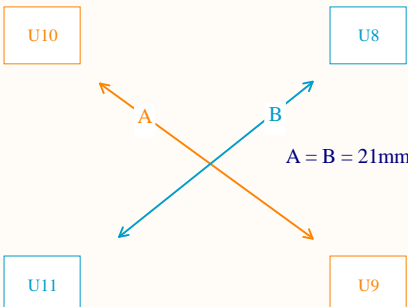
Right
Left

PJ3028B-3_GR_3PINS

CN5

SPK Left

SPK Right



Title: Audio Codec WOLFSON and Audio Connectors

Project: STM32F723e-DISCO

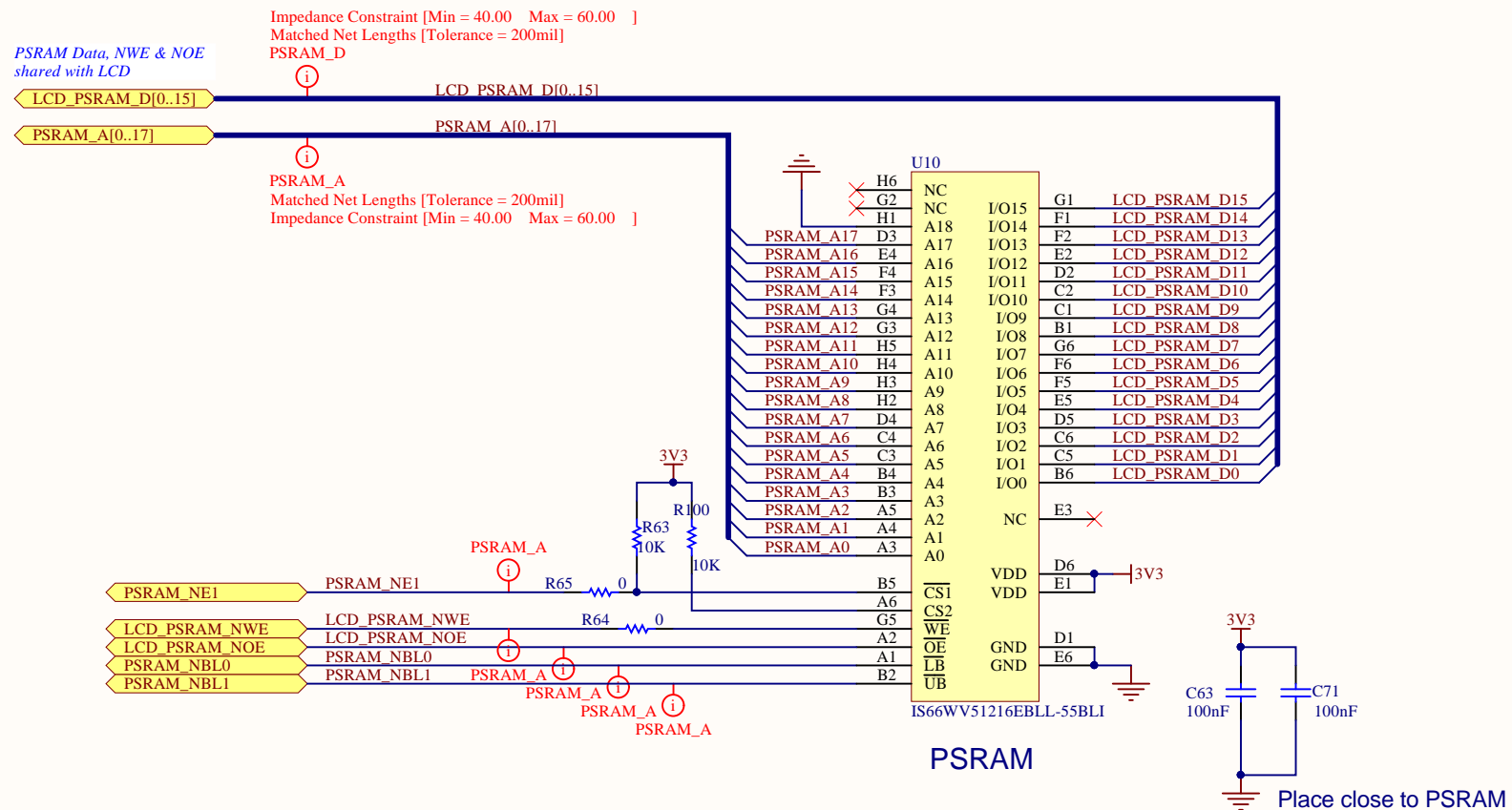
Size: A4 Reference: MB1260

Revision: D-01

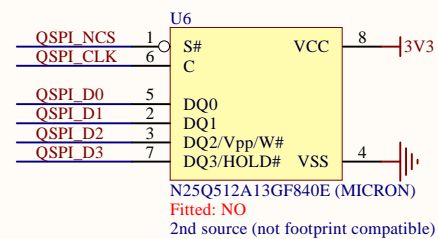
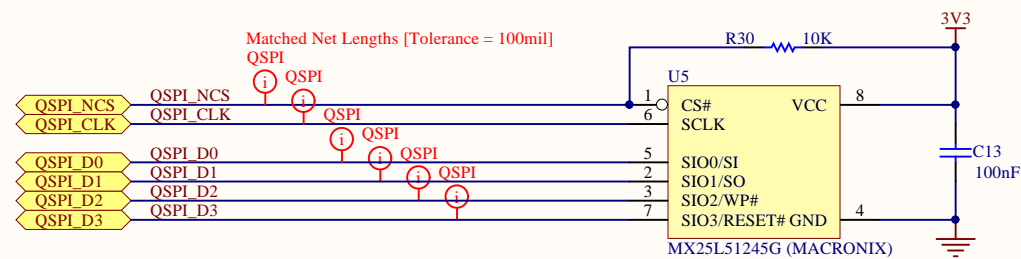
Date: 19/12/2016

Sheet: 4 of 12

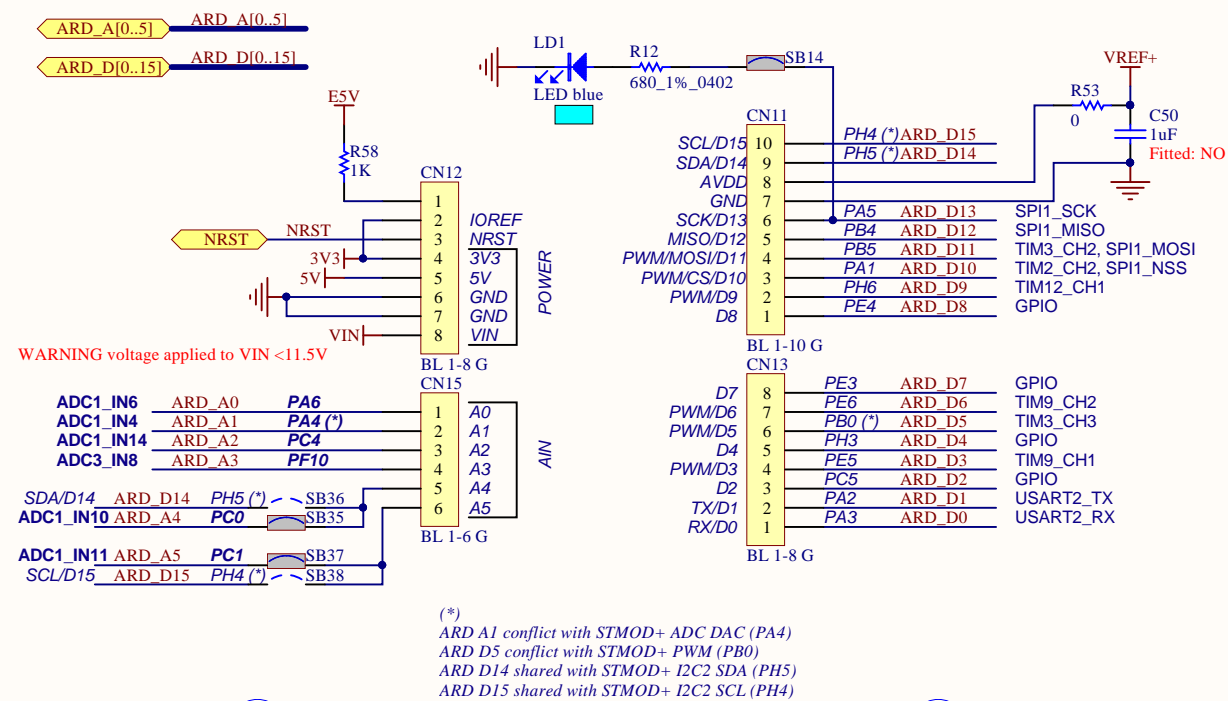


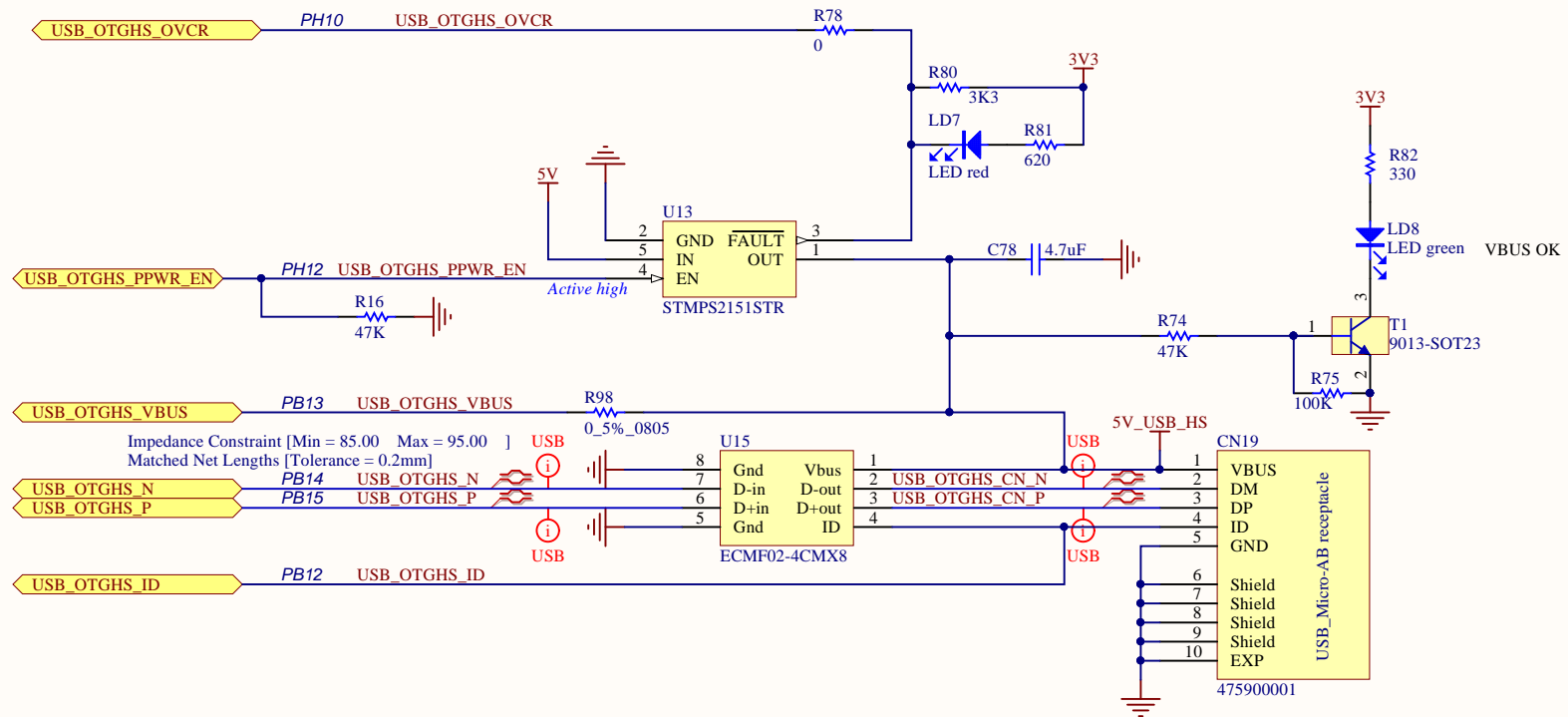


Quad SPI Flash Memory

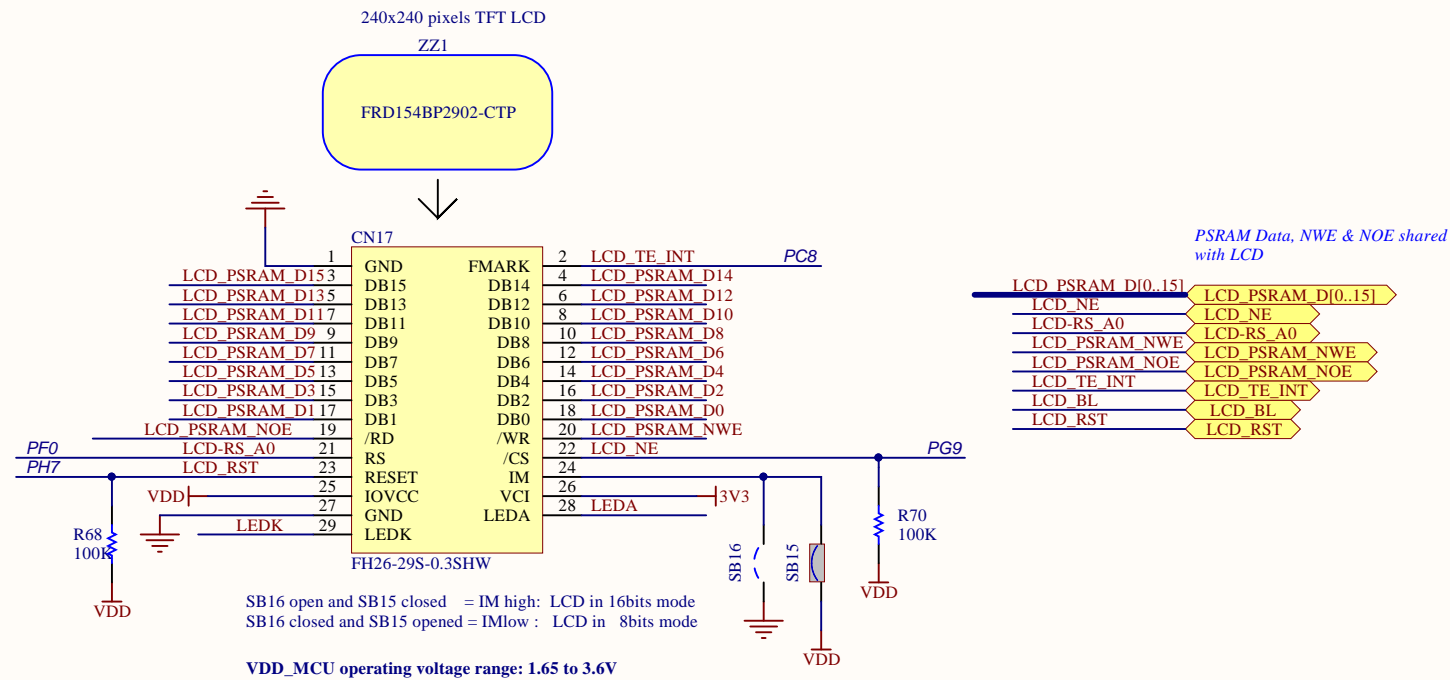


Arduino UNO connector





Top side: layout of CN12

[illegible]

Common mode supply filter

Layout: parts close to STLD40D and grouped in same area with BLGND as local ground plane

Backlight driver & PFC connector for LCD panel

3V3

5V

Fitted: NO

FCM1608KF-601T03

FCM1608KF-601T03

FCM1608KF-601T03

+C67 10uF

C69 100nF

BLGND

L4 FCM1608KF-601T03

VL

C70 100nF

C72 10nF

C73 4.7uF

BLGND

L6 4.7uH 1A 30%

Z1 STPS1L40M

U12

SW V_o

1 V_i NC

7 EN

3 GND FB

9 PGND Rset

STLD40DPUR

C75 4.7uF

C76 10nF

BLGND

L8 FCM1608KF-601T03

LEDA

LEDK

current regulated at 15mA

L7 FCM1608KF-601T03

LCD_BL PH11

R71 100K

Fitted: NO

3V3

R69 100K

BLGND

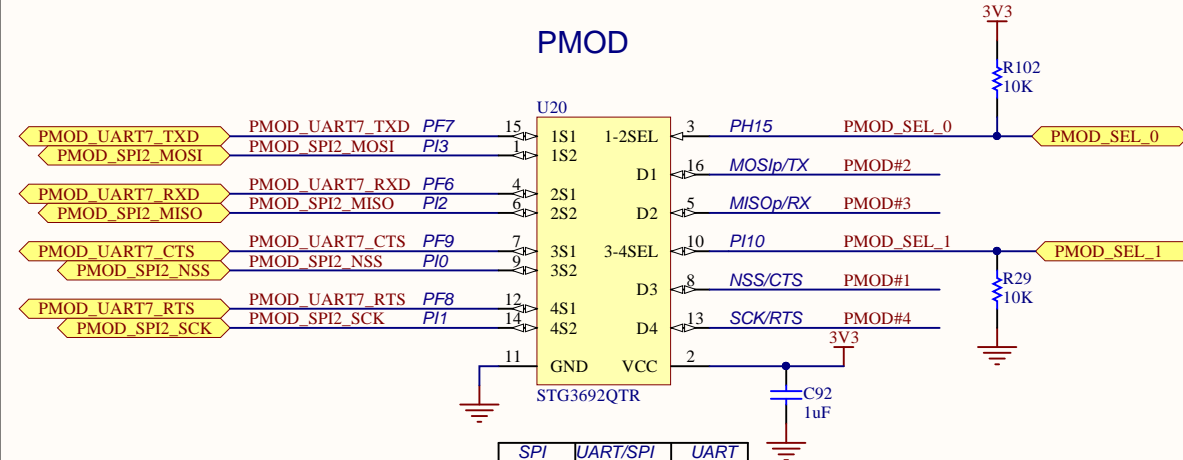
R67 100K

R66 10

BLGND

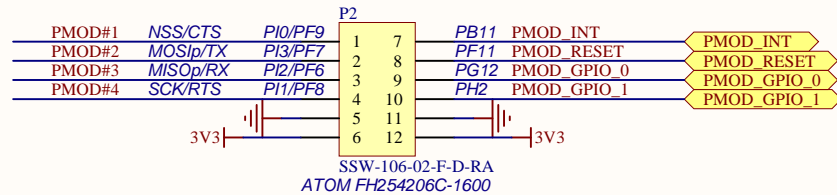
N/OFF or dimmer by low frequency (1 to 10kHz typ.) PWM using TIM5_CH2

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

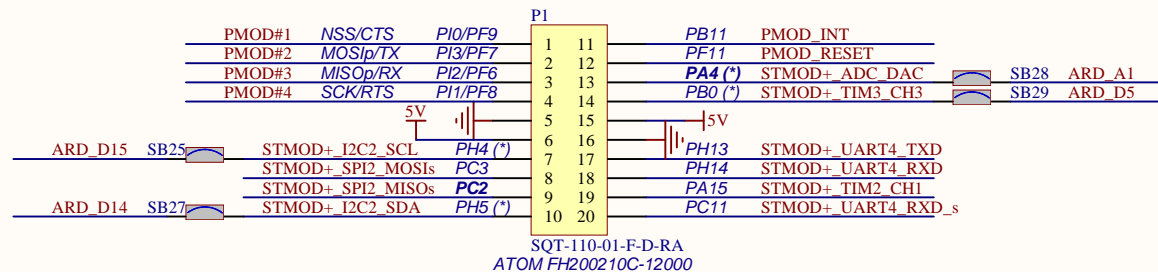
(*) default configuration to support MikroBus modules using MB1280 fan-out board



STMod+

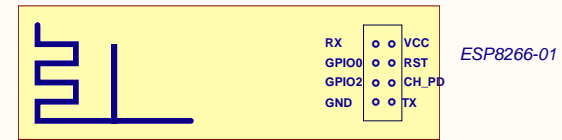
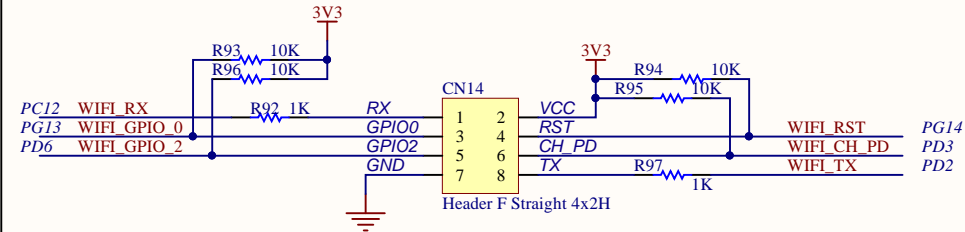
(*)
 ARD_A1 conflict with STMOD+ ADC DAC (PA4)
 ARD_D5 conflict with STMOD+ PWM (PB0)
 ARD_D14 shared with STMOD+ I2C2 SDA (PH5)
 ARD_D15 shared with STMOD+ I2C2 SCL (PH4)

STMOD+ SPI2 MISOs
 STMOD+ SPI2 MOSIs
 STMOD+ UART4_TXD
 STMOD+ UART4_RXD
 STMOD+ TIM2_CH1
 STMOD+ UART4_RXD_s



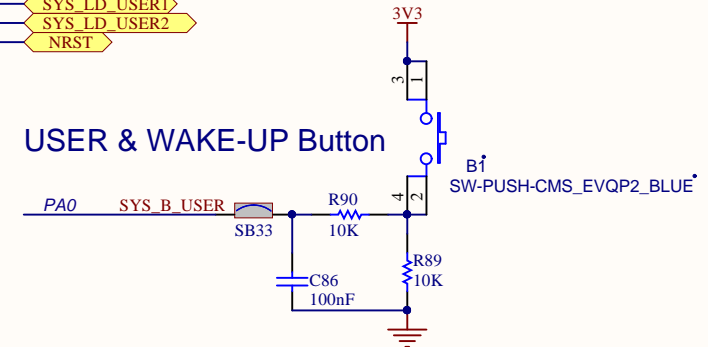
WIFI with ESP8266

WIFI_TX
 WIFI_RX
 WIFI_RST
 WIFI_GPIO_0
 WIFI_GPIO_2
 WIFI_CH_PD



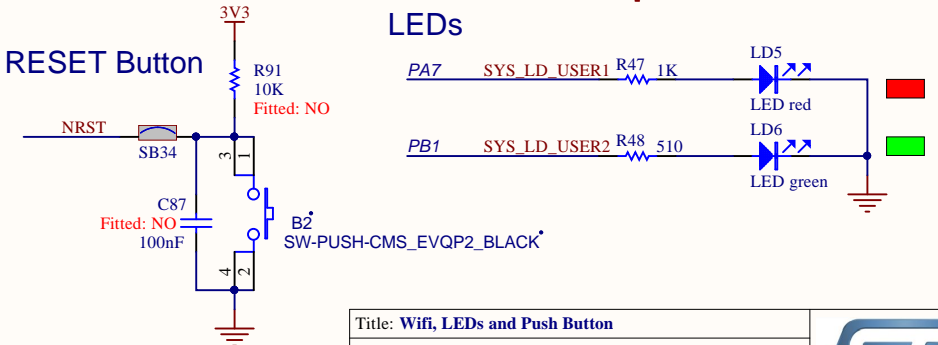
SYS_B_USER
 SYS_LD_USER1
 SYS_LD_USER2
 NRST

USER & WAKE-UP Button



LEDs

RESET Button



Title: Wifi, LEDs and Push Button

Project: STM32F723e-DISCO

Size: A4

Reference: MB1260

Revision: D-01

Date: 22/12/2016

Sheet: 11 of 12



HW Mechanical parts

HW1



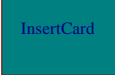
PCB

HW2

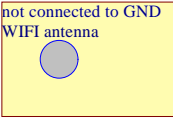


Blister

HW3



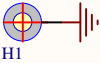
InsertCard



H2

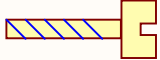


H4



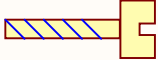
H1

HW4



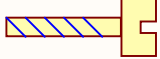
Plastic Screw M3x6mm

HW5



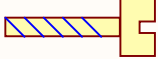
Plastic Screw M3x6mm

HW6



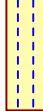
Plastic Screw M3x6mm

HW7



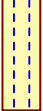
Plastic Screw M3x6mm

HW8



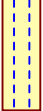
Spacer 14mm

HW9



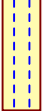
Spacer 14mm

HW10



Spacer 14mm

HW11



Spacer 14mm