

**Figure 28. 32F769IDISCOVERY Discovery board interconnections**

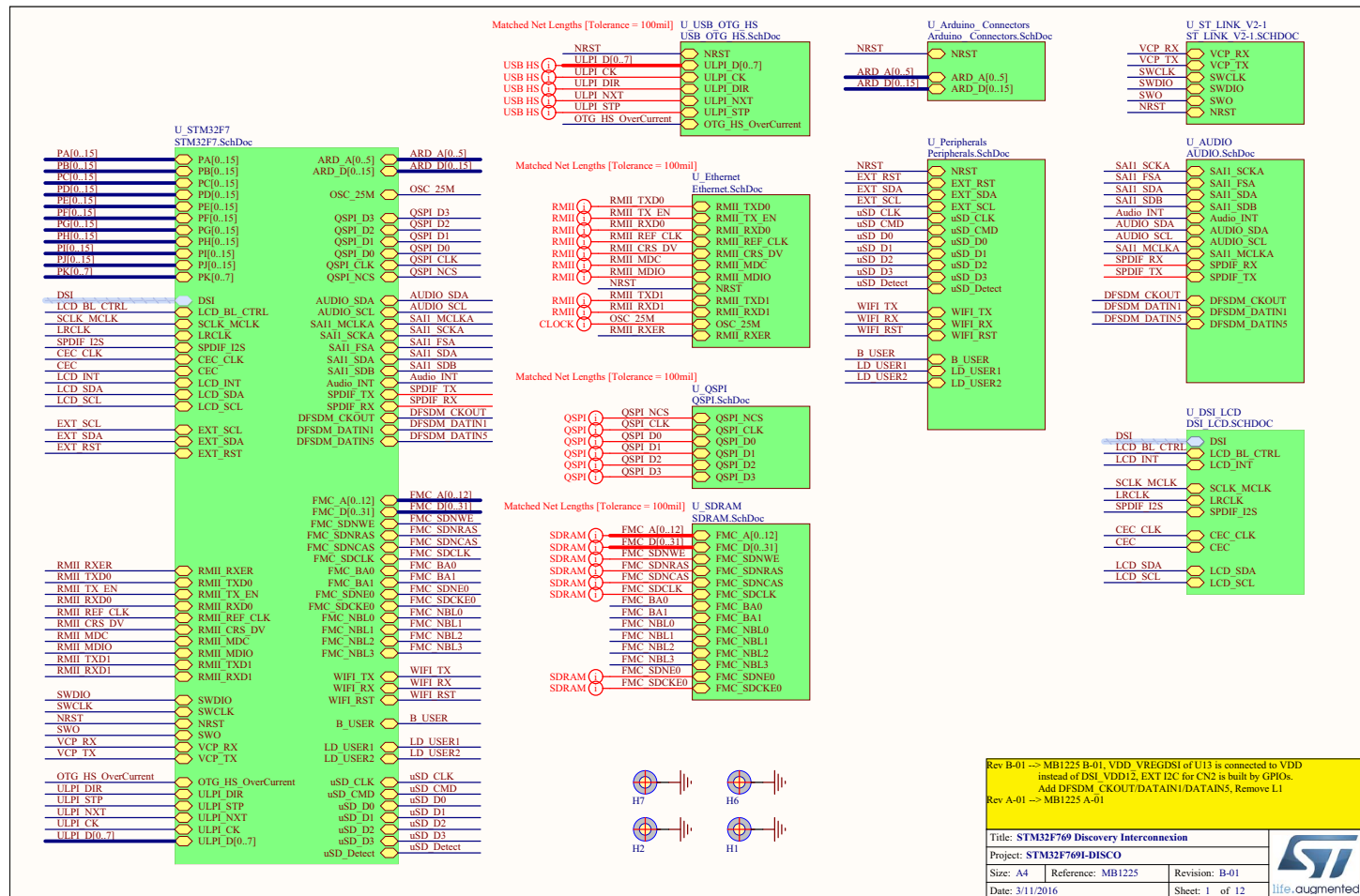
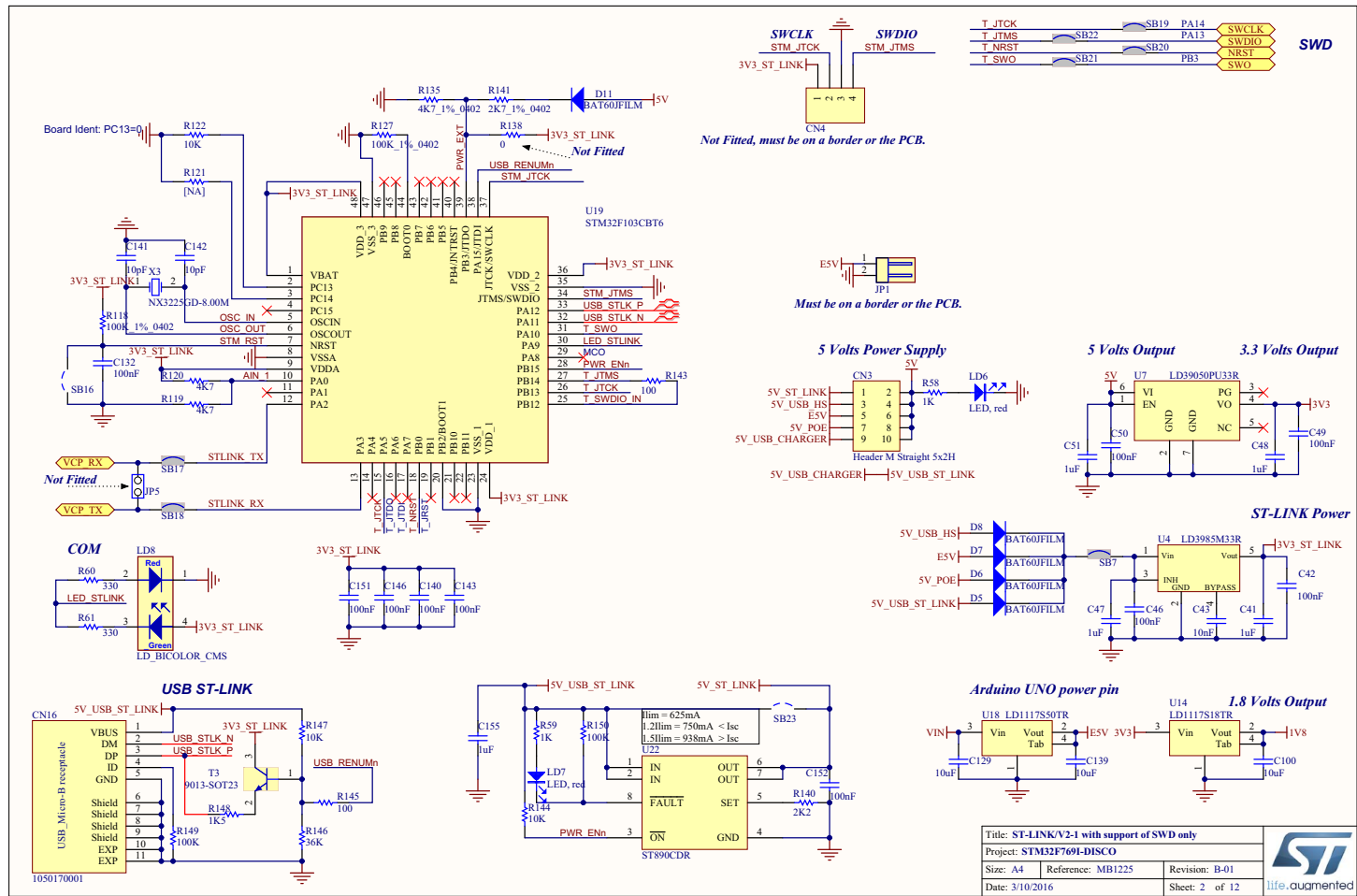
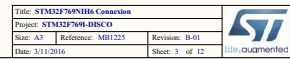


Figure 29. ST-LINK/V2-1 with support of SWD only



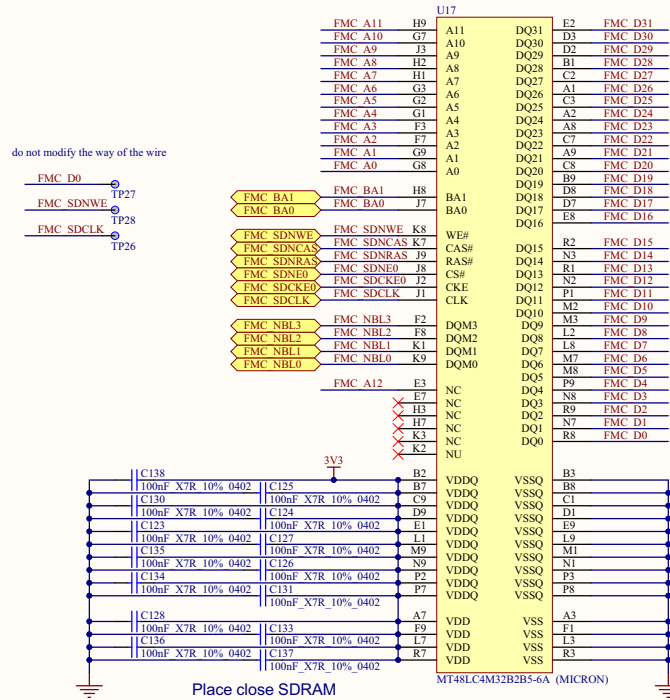
## Schematics



## Schematics



### Figure 32. SDRAM (MICRON)




Title: <b>SDRAM (MICRON)</b>			 <a href="http://www.st.com">life.augmented</a>
Project: <b>STM32F769I-DISCO</b>			
Size: <b>A4</b>	Reference: <b>MB1225</b>	Revision: <b>B-01</b>	
Date: <b>3/10/2016</b>		Sheet: <b>5</b> of <b>12</b>	





Figure 33. Quad-SPI Flash memory (MACRONIX mounted)

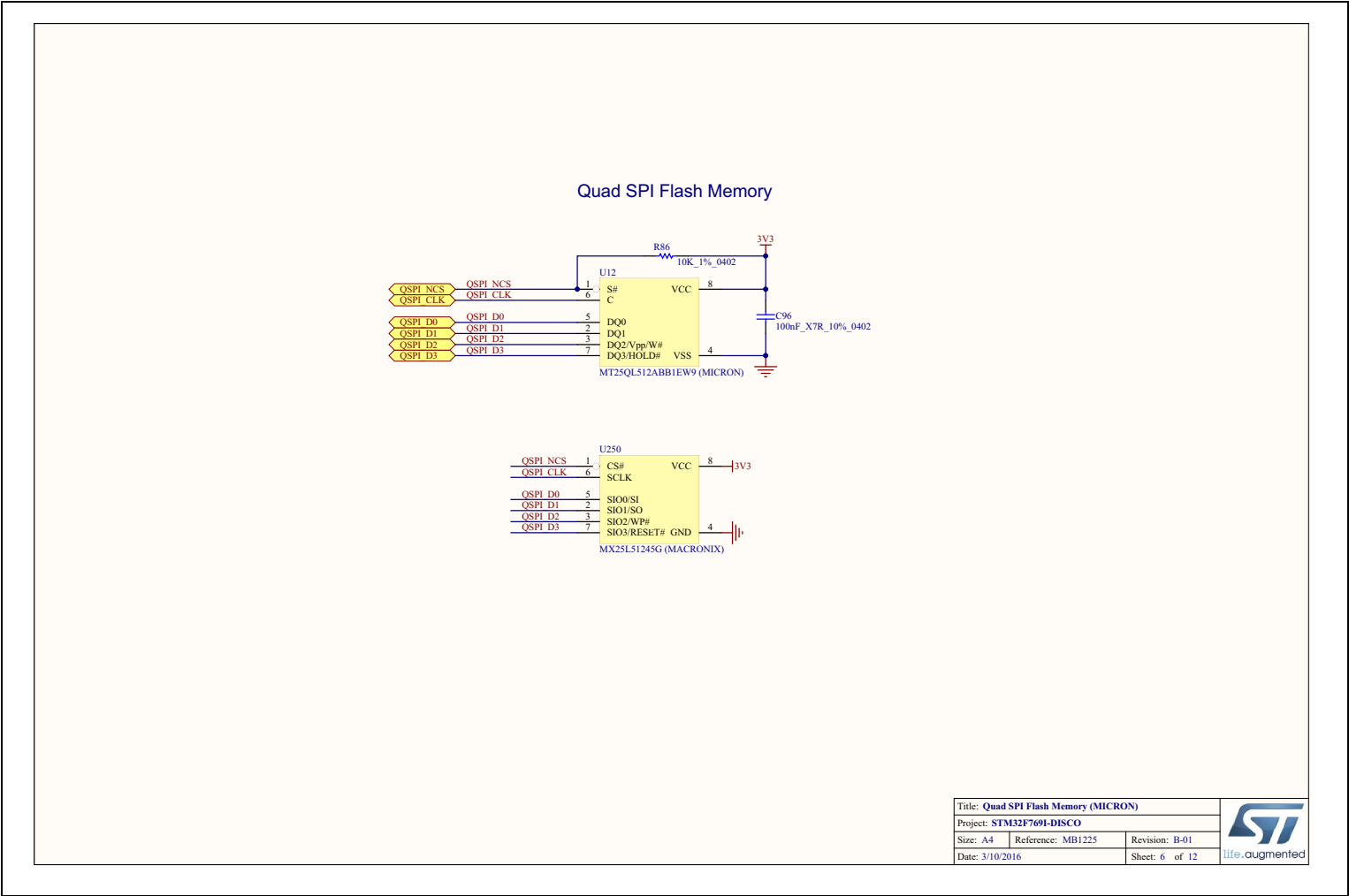
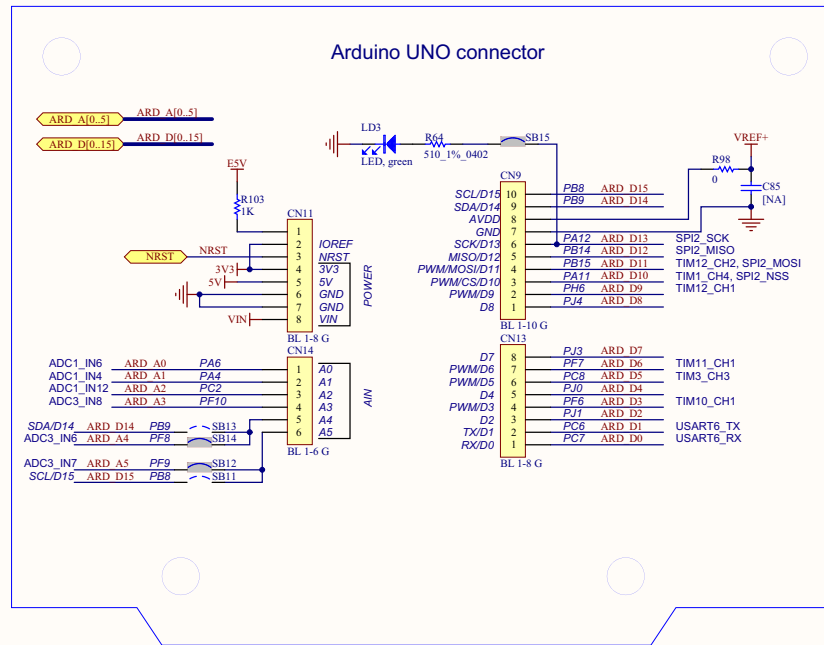


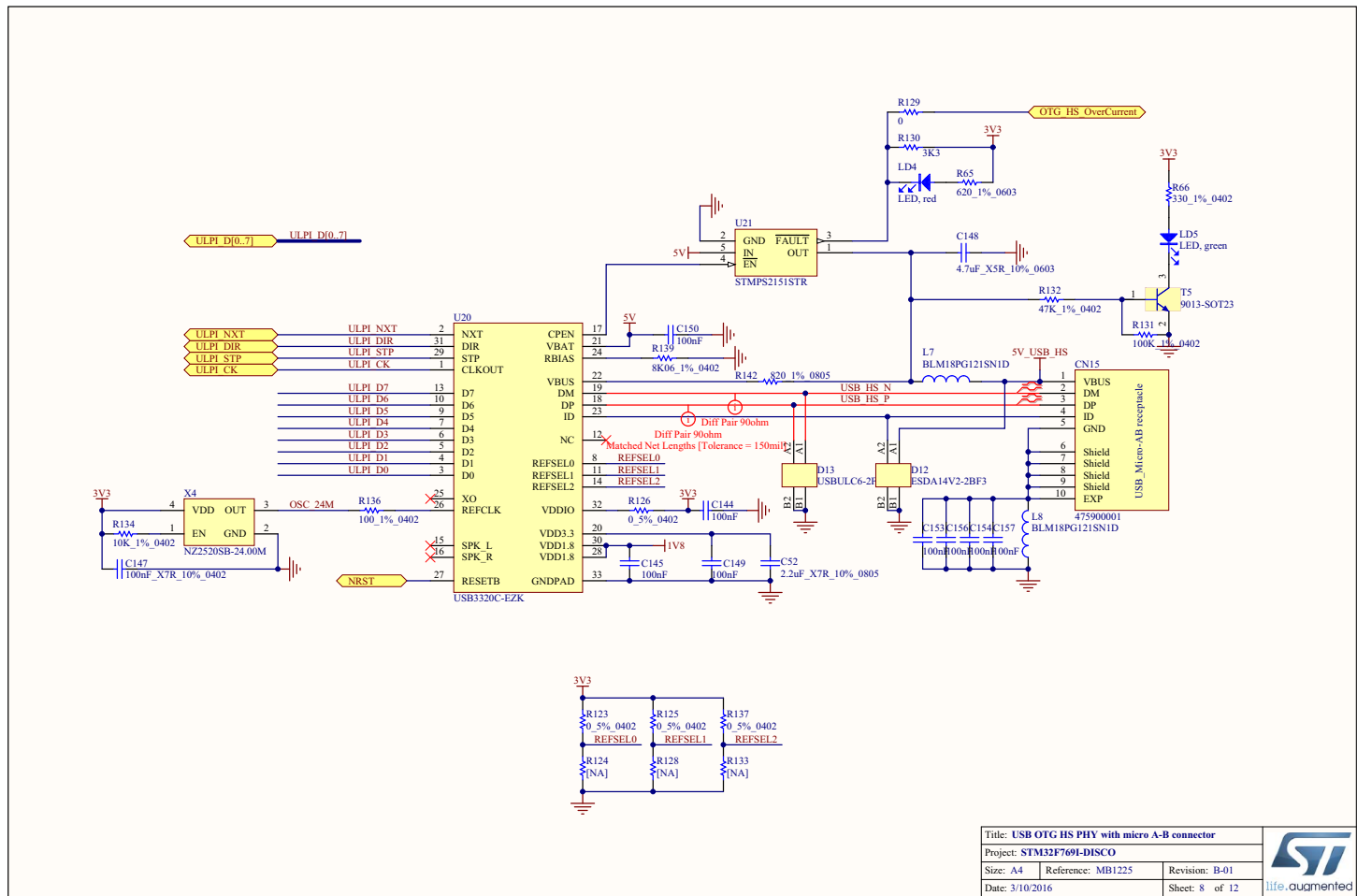
Figure 34. Arduino™ UNO connectors



Title: Arduino UNO connectors		
Project: STM32F769I-DISCO		
Size: A4	Reference: MB1225	Revision: B-01
Date: 3/10/2016	Sheet: 7 of 12	life.augmented



### Figure 35. USB OTG HS PHY with micro A-B connector





## Schematics



## Schematics




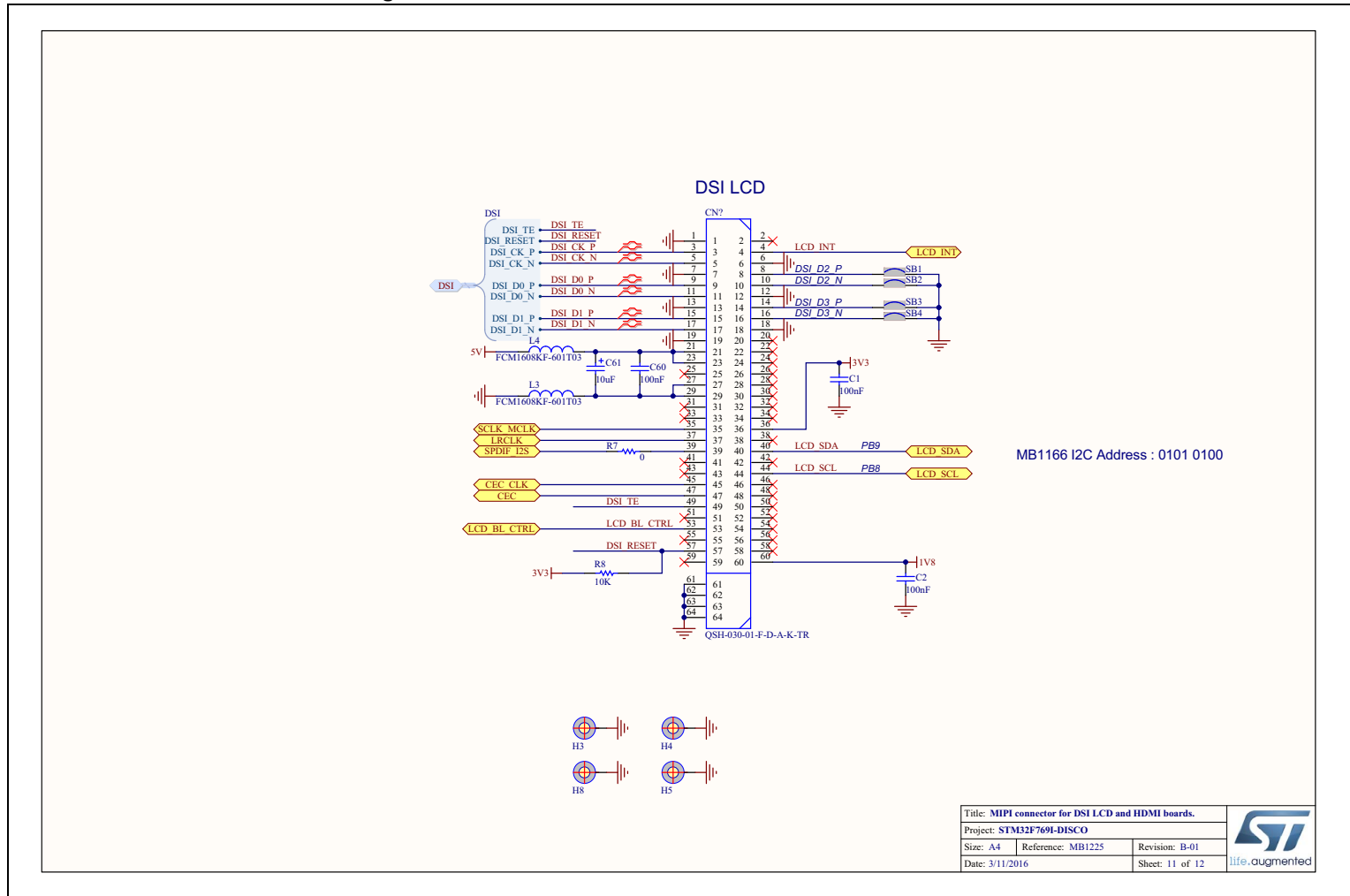
Title: <b>Power Over Ethernet 3W</b>			 <a href="http://www.st.com">life.augmented</a>
Project: <b>STM32F769I-DISCO</b>			
Size: <b>A4</b>	Reference: <b>MB1225</b>	Revision: <b>B-01</b>	
Date: <b>3/10/2016</b>		Sheet: <b>10 of 12</b>	

Figure 38. MIPI connector for DSI LCD and HDMI boards



**MICRO SD (TF) Card**

uSD D0, uSD D1, uSD D2, uSD D3, uSD CLK, uSD CMD

3V3

R81 47K\_1%\_0402, R82 47K\_1%\_0402, R83 47K\_1%\_0402, R84 47K\_1%\_0402, R85 47K\_1%\_0402, R86 [NA], R73 0\_5%\_0402

SMS064FF or SMS128FF

CNS PJS008-2003

SW1 SW2

uSD Detect

Input pin with pull-up

**USER & WAKE-UP Button**

B USER

SB9

R68 10K

C54 100nF

R70 10K

3V3

B1 SW-PUSH-CMS\_BLUE

**RESET Button**

NRST

SB10

R67 10K\_1%\_0402

C53 100nF

B2 SW-PUSH-CMS\_BLACK

3V3

**WIFI with ESP8266 or I2C EXT Connector**

WIFI RX

SB5

R50 1K

3V3

EXT SCL

EXT SDA

R53 10K

R56 10K

SB6

CN2

GPIO0

GPIO2

GND

Header F Straight 4x2H

SB8

3V3

R200 10K

R54 10K

R57 1K

WIFI RST

EXT RST

WIFI TX

EXT TX

**ESP8266-01 WIFI board**

SB5, SB6, OFF

SB8, ON

EXT\_RST, EXT\_SCL, EXT\_SDA = HIZ

**I2C board**

SB8, OFF

SB5, SB6, ON

WIFI\_RST, WIFI\_RX, WIFI\_TX = HIZ

**LEDs**

LD USER1

R62 1K\_1%\_0603

LD1 LED, red

LD USER2

R63 330\_1%\_0603

LD2 LED, green

3V3

**Table:**

Title: uSD, Wifi, LEDs and Push Button		
Project: STM32F769I-DISCO		
Size: A4	Reference: MB1225	
Date: 3/11/2016	Revision: B-01	
Sheet: 12 of 12		life.documented

Figure 40. 4-inch DSI LCD board

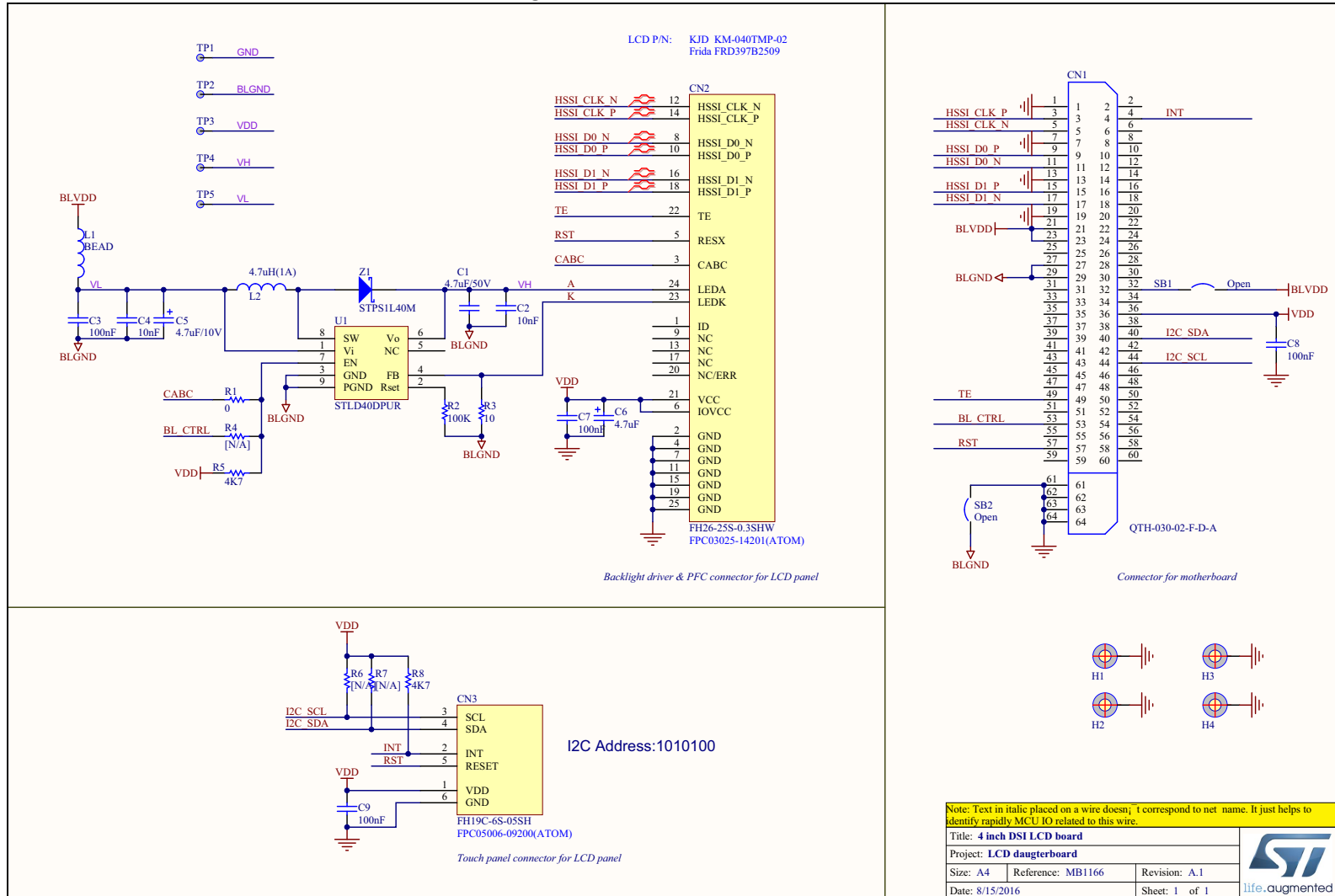


Figure 41. DSI to HDMI adapter

