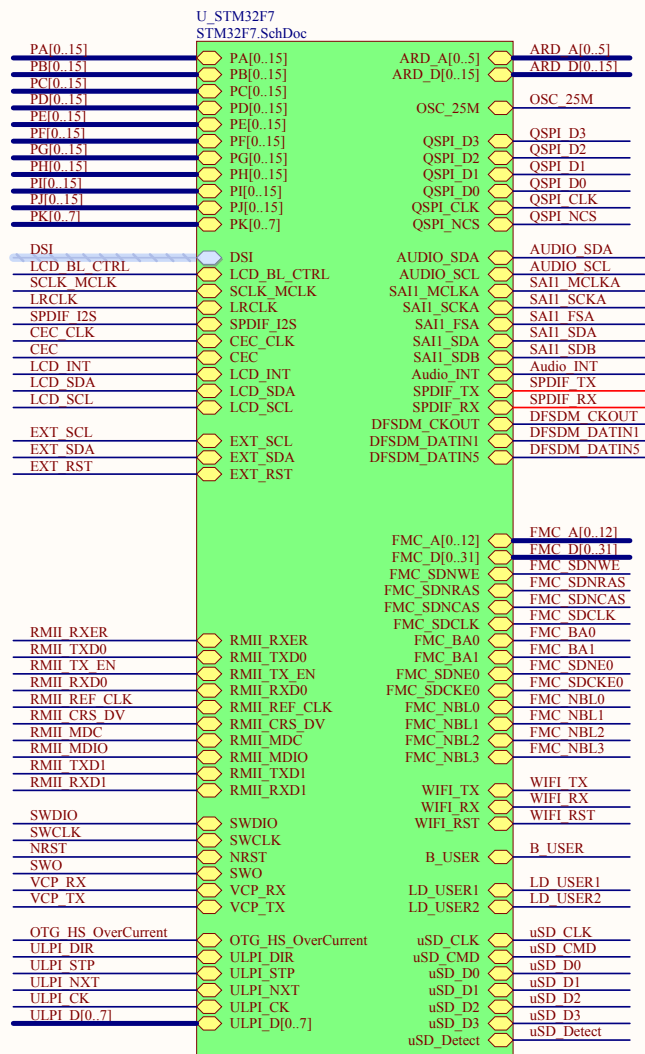
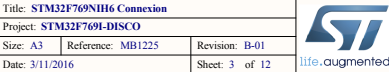
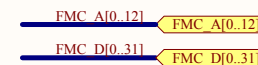
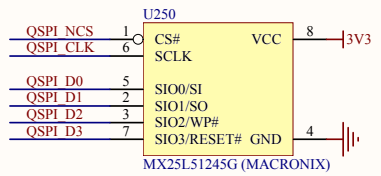
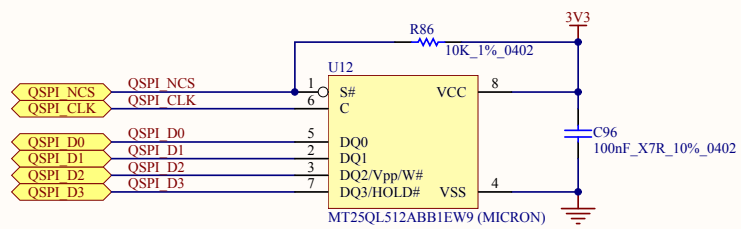


Rev B-01 --> MB1225 B-01, VDD_VREGDSI of U13 is connected to VDD instead of DSI_VDDI2, EXT_I2C for CN2 is built by GPIOs. Add DFSDM_CKOUT/DATIN1/DATIN5, Remove L1
Rev A-01 --> MB1225 A-01

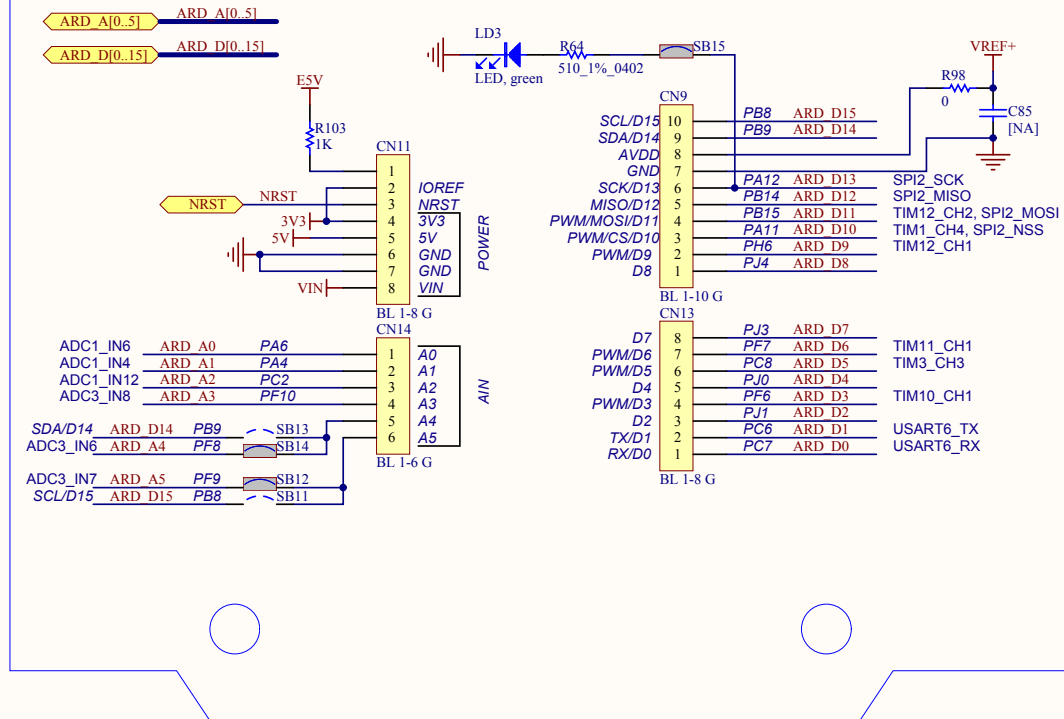




Quad SPI Flash Memory



Arduino UNO connector

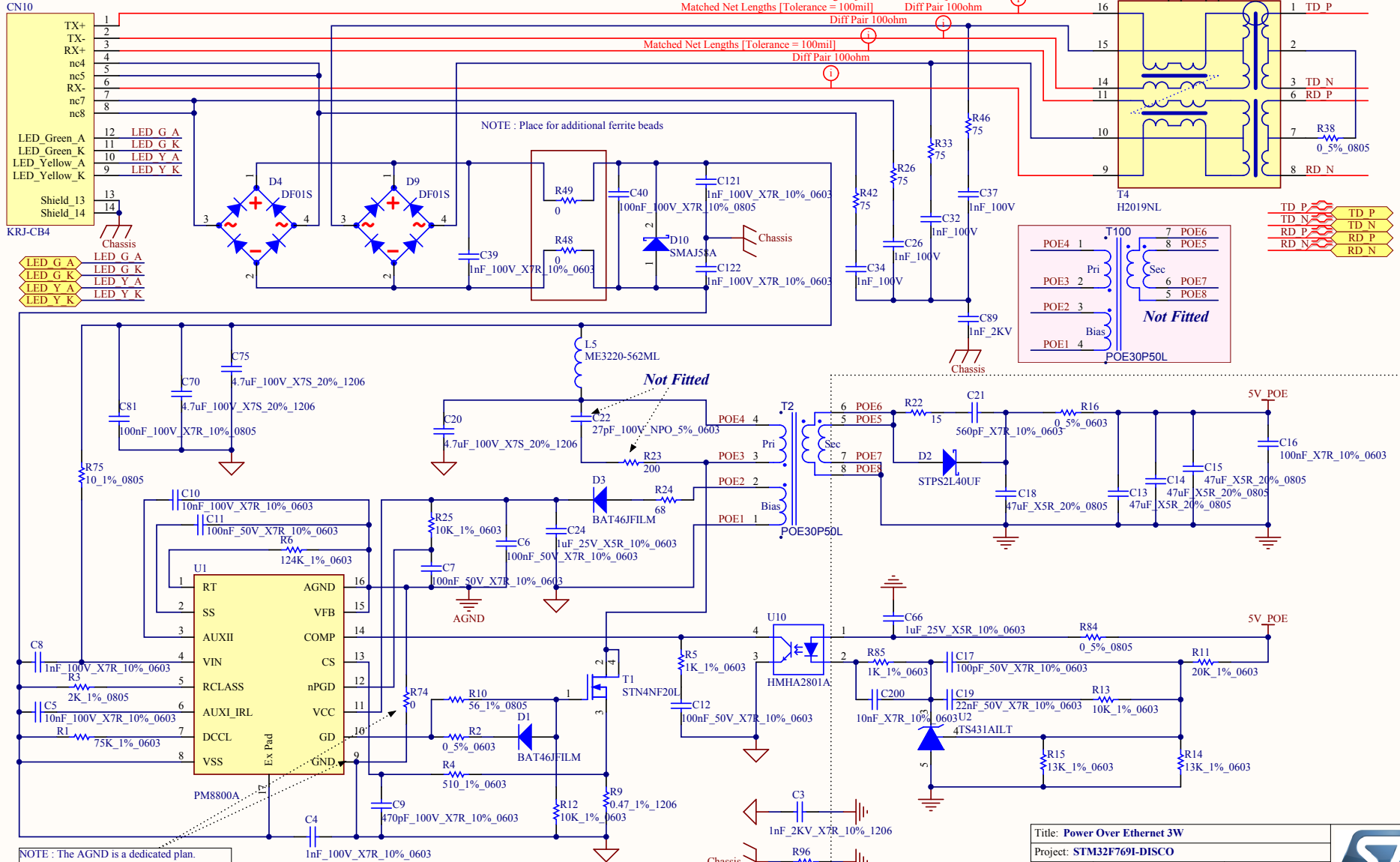


INPUT

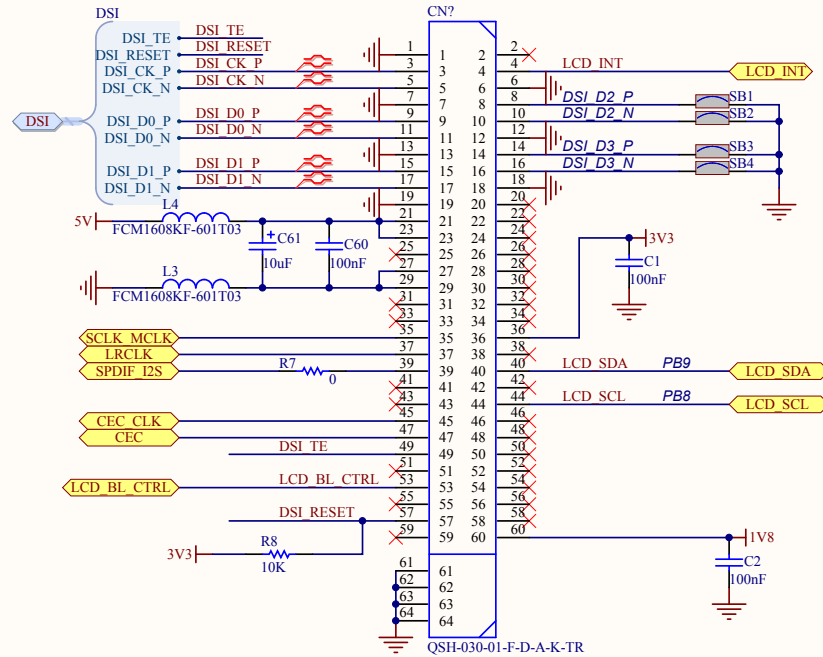
Power Over Ethernet

Matched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohmMatched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohmMatched Net Lengths [Tolerance = 100mil]
Diff Pair 100ohm

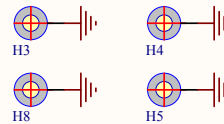
NOTE : Place for additional ferrite beads



DSI LCD



MB1166 I2C Address : 0101 0100



MICRO SD (TF) Card

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

3V3

R82 47K_1%_0402
R81 47K_1%_0402
R83 47K_1%_0402
R79 47K_1%_0402
R80 47K_1%_0402

3V3

SMS064FF or SMS128FF

CN5 PJS008-2003

1 2 3 4 5 6 7 8

SW2 SW1

9 10

R76 [NA]
R73 0_5%_0402

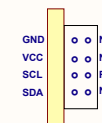
uSD Detect

Input pin with pull-up

The schematic diagram illustrates the wiring for the module. It features a 3V3 power supply connected to several components. A 1K resistor (R50) is connected between the 3V3 supply and the RX pin of the module. A 10K resistor (R52) is connected between the 3V3 supply and the EXT SCL pin. A 10K resistor (R56) is connected between the 3V3 supply and the EXT SDA pin. A 10K resistor (R54) is connected between the 3V3 supply and the RST pin of the module. A 1K resistor (R57) is connected between the 3V3 supply and the TX pin of the module. A 10K resistor (R200) is connected between the 3V3 supply and the CH PD pin of the module. The module's GPIO0 pin is connected to the RX pin of the module. The module's GPIO2 pin is connected to the EXT SCL pin. The module's GND pin is connected to the GND pin of the module. A SB8 component is connected to the GND pin of the module. The module's RX pin is connected to the WIFI RX pin. The module's TX pin is connected to the WIFI TX pin. The module's RST pin is connected to the EXT RST pin. The module's CH PD pin is connected to the WIFI RST pin. The module's GPIO0 pin is connected to the EXT SCL pin. The module's GPIO2 pin is connected to the EXT SDA pin. The module's GND pin is connected to the GND pin of the module. The module's RX pin is connected to the RX pin of the module. The module's TX pin is connected to the TX pin of the module. The module's RST pin is connected to the RST pin of the module. The module's CH PD pin is connected to the CH PD pin of the module. The module's GPIO0 pin is connected to the GPIO0 pin of the module. The module's GPIO2 pin is connected to the GPIO2 pin of the module. The module's GND pin is connected to the GND pin of the module.



ESP8266-01 WIFI board
SB5, SB6, OFF
SB8, ON
EXT_RST, EXT_SCL, EXT_SDA = HIZ



```

MB1064      I2C board
MB1020      SB8, OFF
              SB5, SB6, ON
              WIFI_RST, WIFI_RX, WIFI_TX = HIZ

```

USER & WAKE-UP Button

The circuit diagram shows the connection for the USER & WAKE-UP Button. The button, labeled "B USER", is connected to pin SB9. This pin is also connected to a 10K resistor (R68) leading to pin B1 of the SW-PUSH-CMS_BLUE switch. Pin B1 is connected to a 3V3 supply through a 10K resistor (R70) and a 100nF capacitor (C54) to ground.

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