

# STM32MP15-DISCO

MB1272

## Table of contents

Sheet 1: Project (this page)

Sheet 2: Top

Sheet 3: STM32 MPU I/Os

Sheet 4: Power MPU

Sheet 5: Power PMIC

Sheet 6: USB Host Hub & TypeC DRP

Sheet 7: Audio

Sheet 8: DSI LCD Connector

Sheet 9: HDMI

Sheet 10: GPIO & Arduino Connectors

Sheet 11: DDR3 16bits

Sheet 10: Ethernet

Sheet 11: Peripherals

Sheet 10: WLAN Bluetooth

Sheet 11: Peripherals

## Legend

New in Rev C : X6 OSC, 100nF->1uF on C147 to C161, C191/C192 added, X1 NDK reference, ANA0/1 -> ARD\_A2/3

New in Rev C02: C64,C72 and C73 1uF -> 2.2uF, STM32MP157AAC3 to STM32MP157DAC1

Text to be added to silkscreen.

Warning text.

▲ Notes to generate the board layout.

## Open Platform License Agreement

The Open Platform License Agreement ("Agreement") is a binding legal contract between you ("You")

and STMicroelectronics International N.V. ("ST"), a company incorporated under the laws of the

Netherlands acting for the purpose of this Agreement through its Swiss branch 39, Chemin du

Champ des Filets, 1228 Plan-les-Ouates, Geneva, Switzerland.

By using the enclosed reference designs, schematics, PC board layouts, and documentation, in hardcopy

or CAD tool file format (collectively, the "Reference Material"), You are agreeing to be bound by

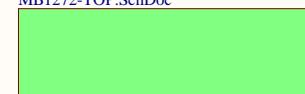
the terms and conditions of this Agreement. Do not use the Reference Material until You have read

and agreed to this Agreement terms and conditions. The use of the Reference Material automatically

implies the acceptance of the Agreement terms and conditions.

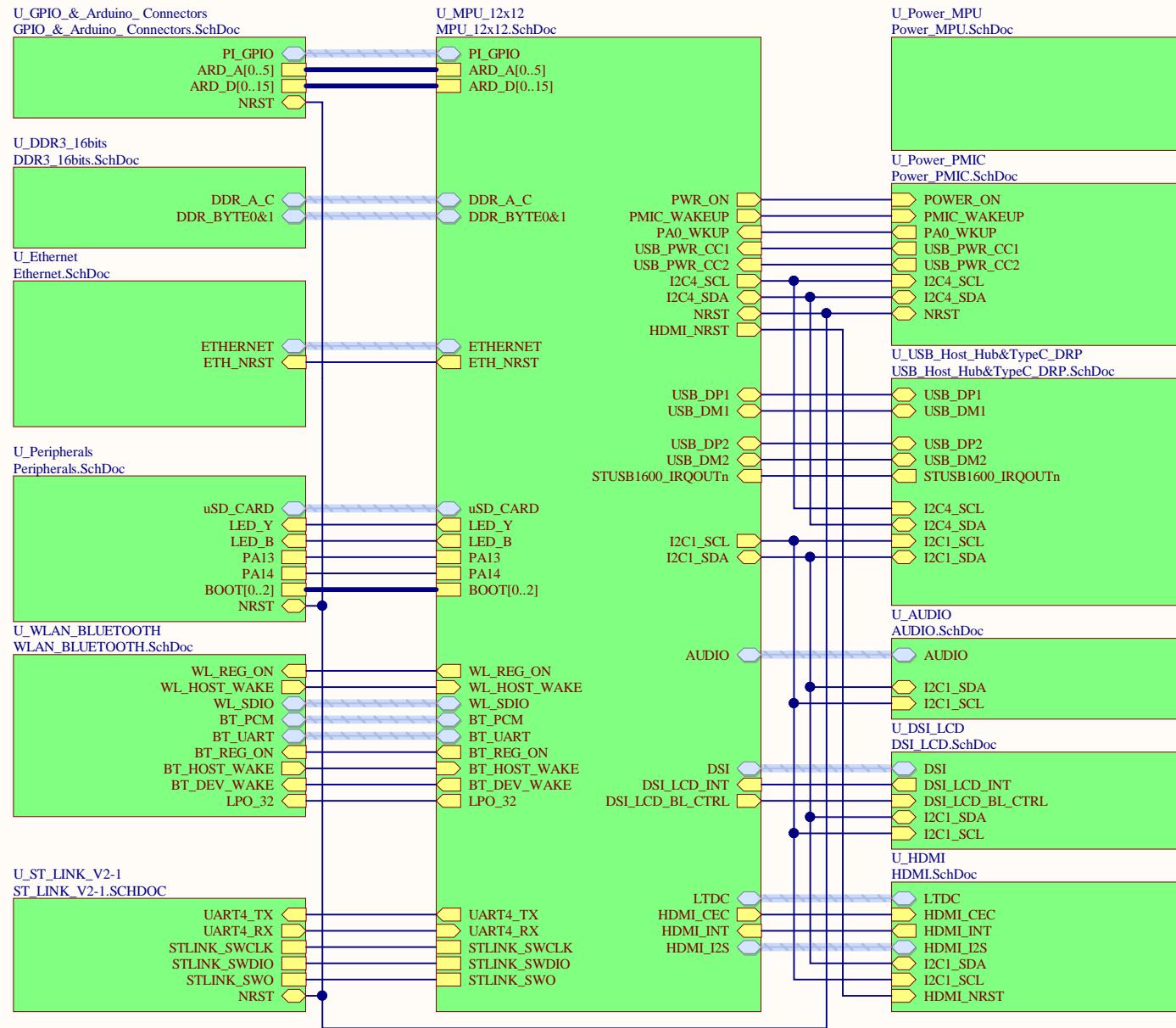
The complete Open Platform License Agreement can be found on [www.st.com/opa](http://www.st.com/opa).

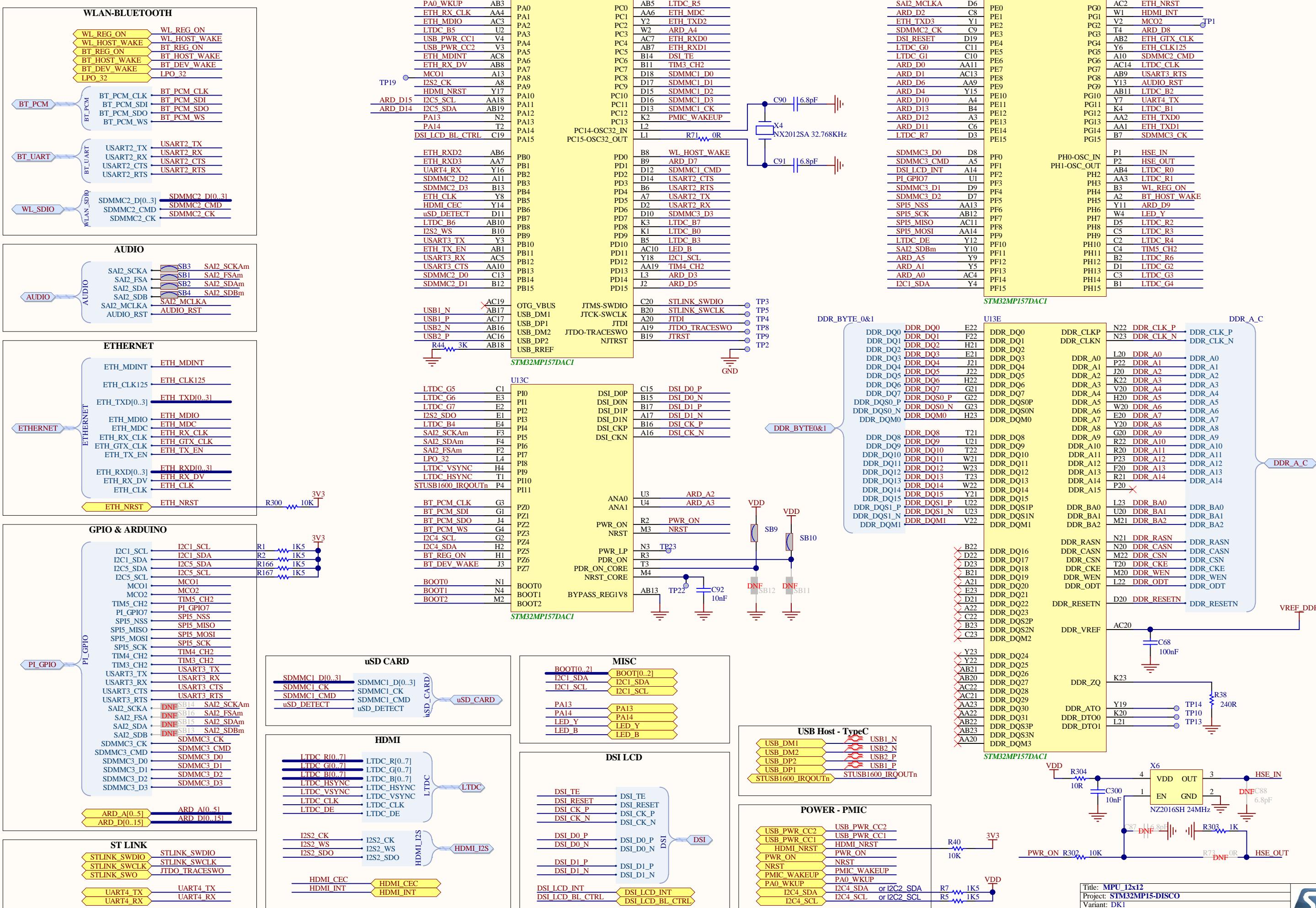
U\_MB1272-TOP  
MB1272-TOP.SchDoc

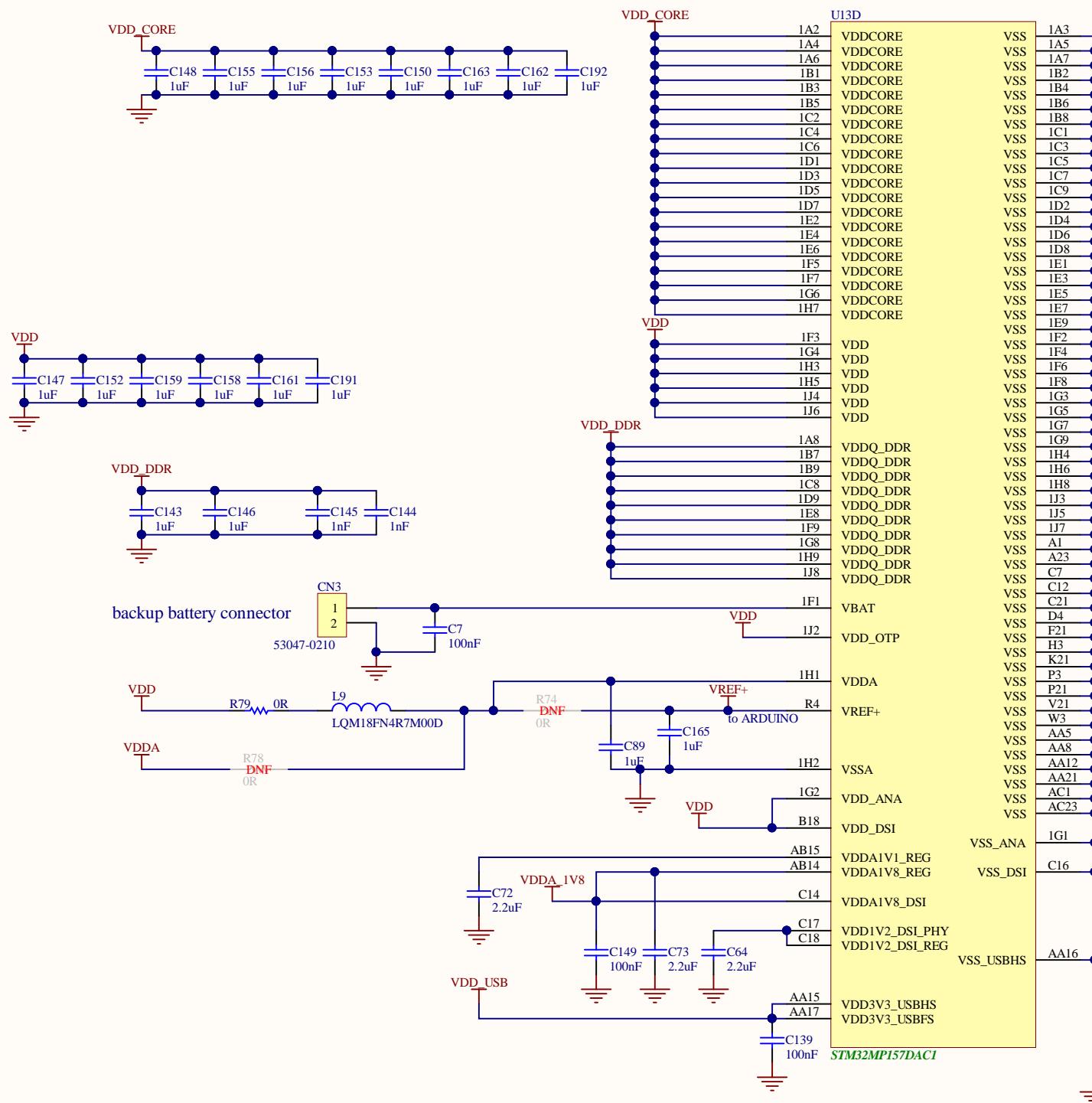


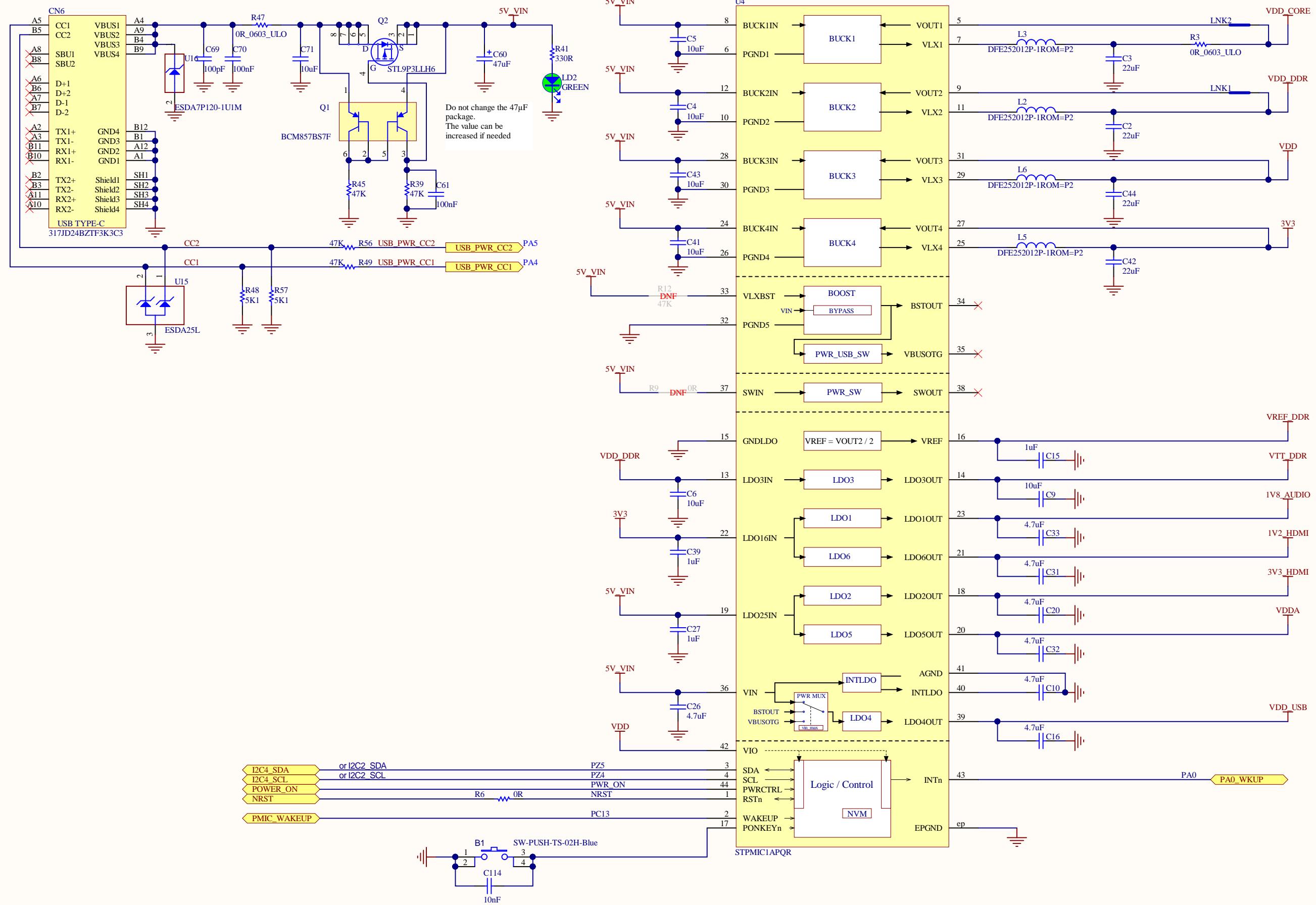
Title:	MB1272
Project:	STM32MP15-DISCO
Variant:	DK1
Revision:	C-02
Size:	A4
Date:	12-SEP-18
Reference:	MB1272
Sheet:	1 of 15



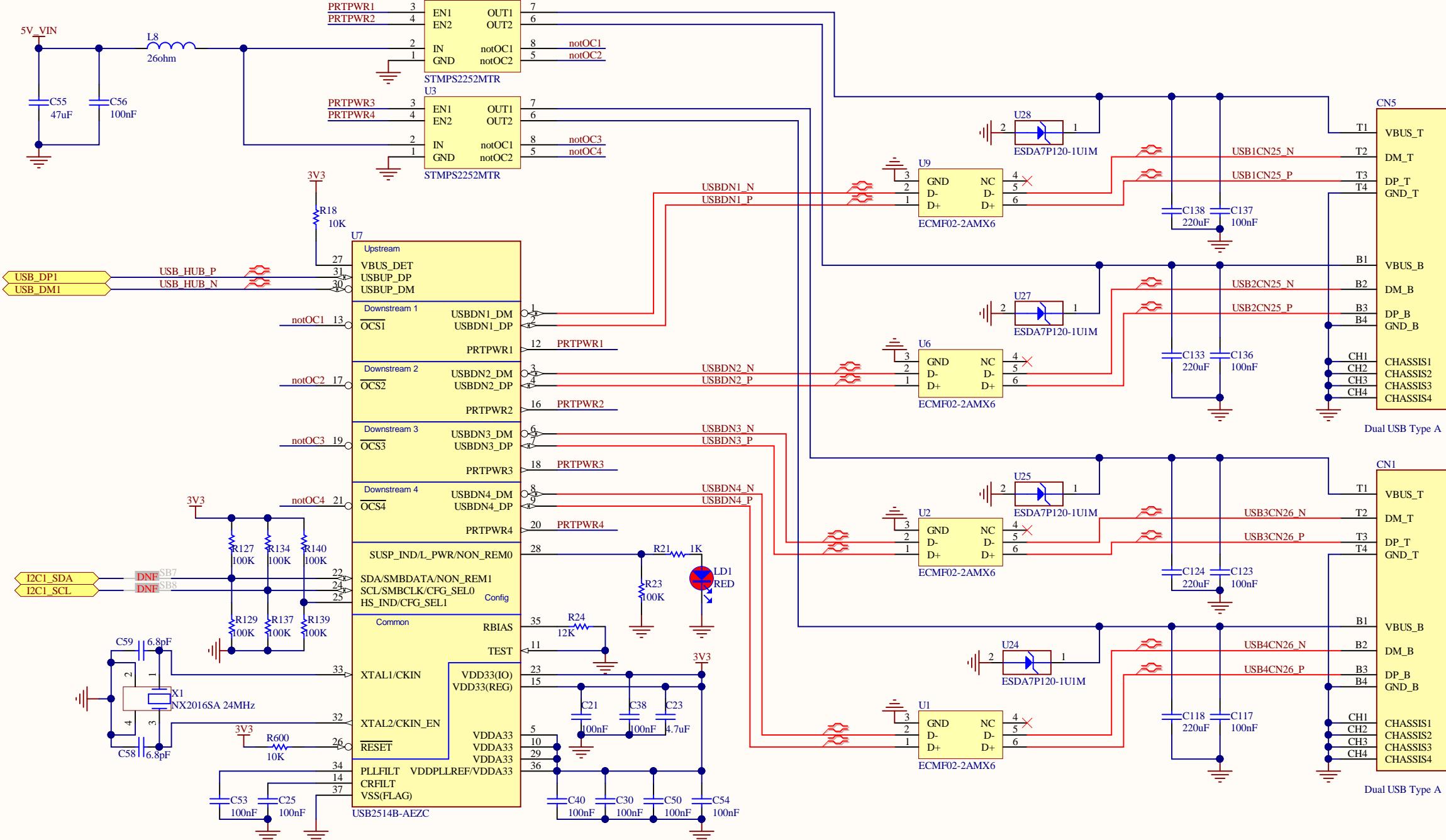






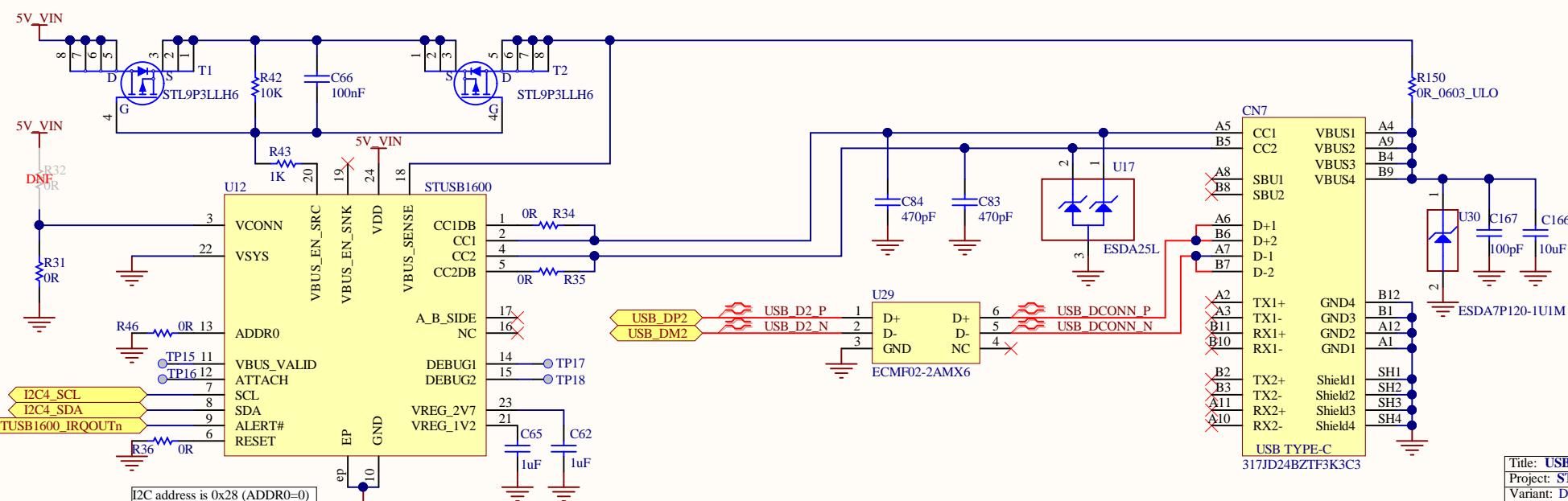


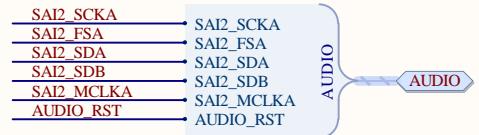
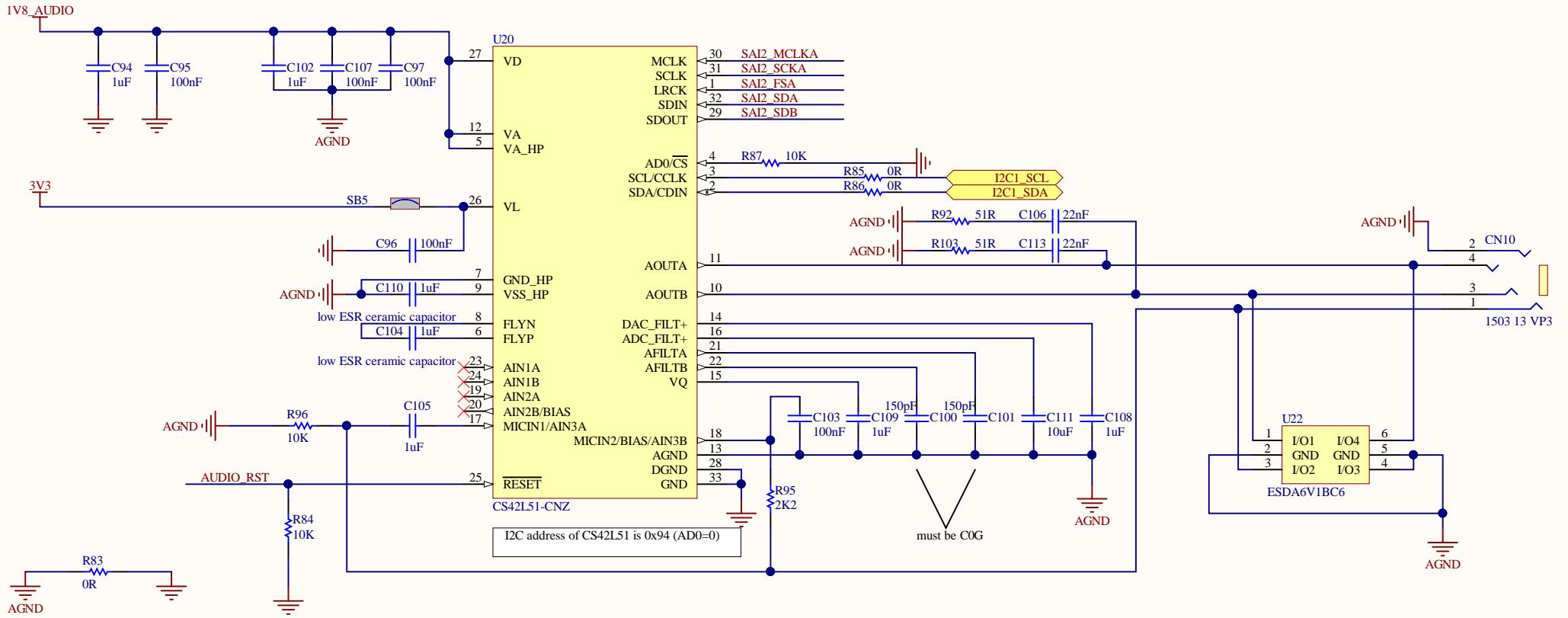
# USB\_HOST\_HUBx4



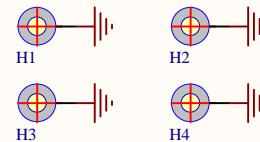
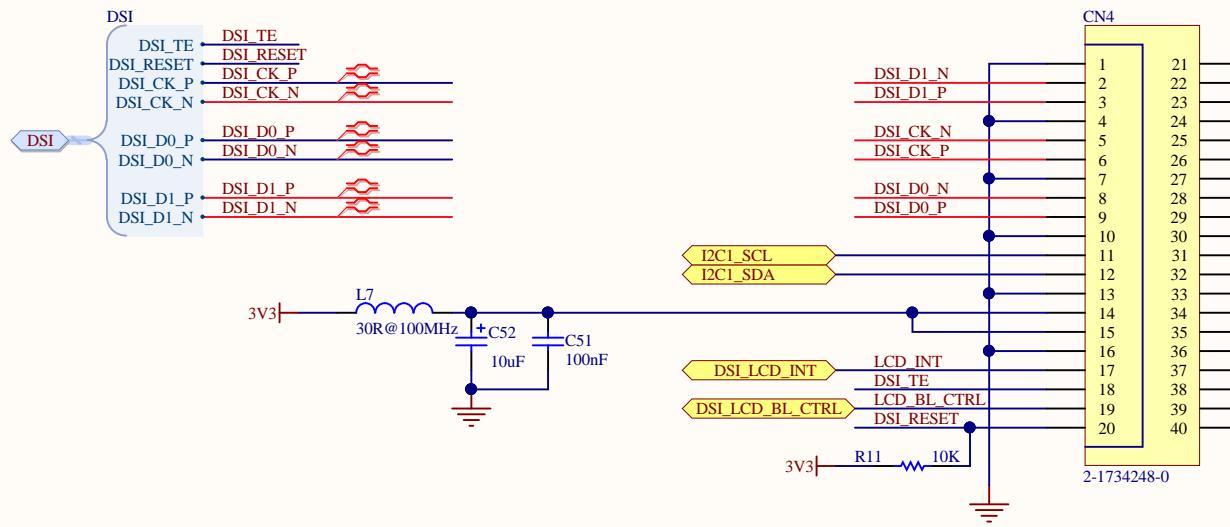
# USB\_TYPE\_C\_DRP

Source only

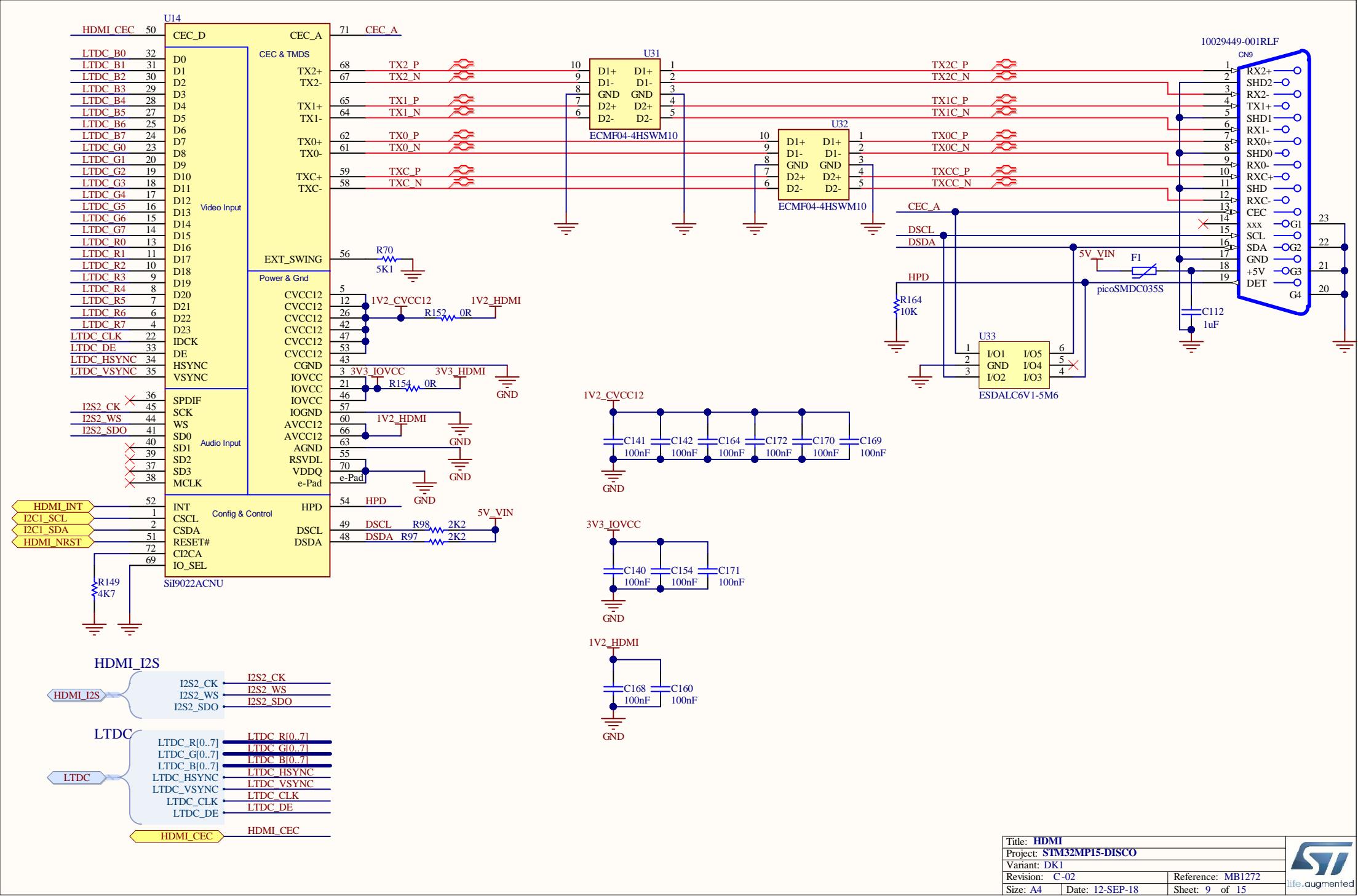




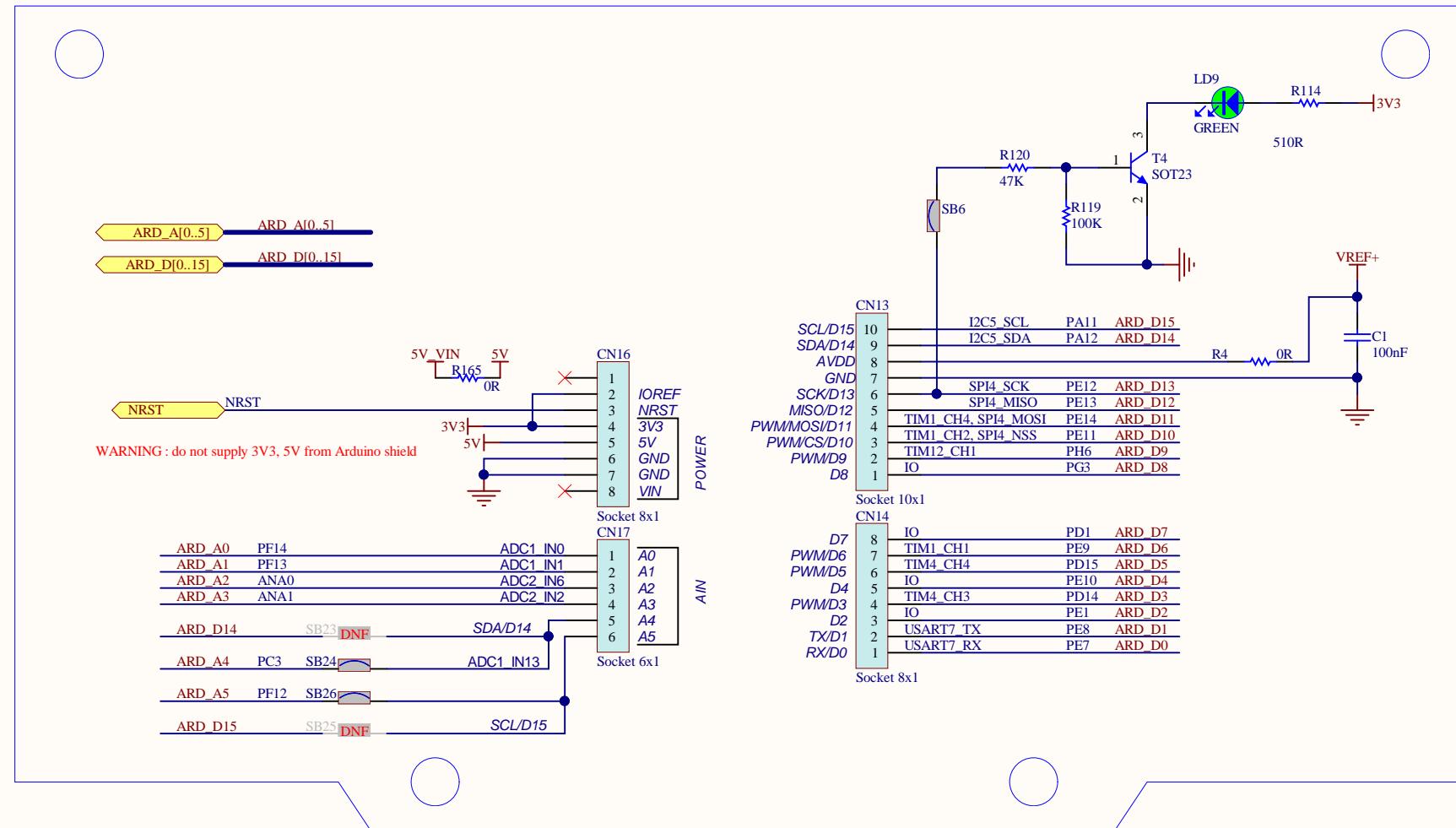
MB1407 I2C Address : 0101 0100



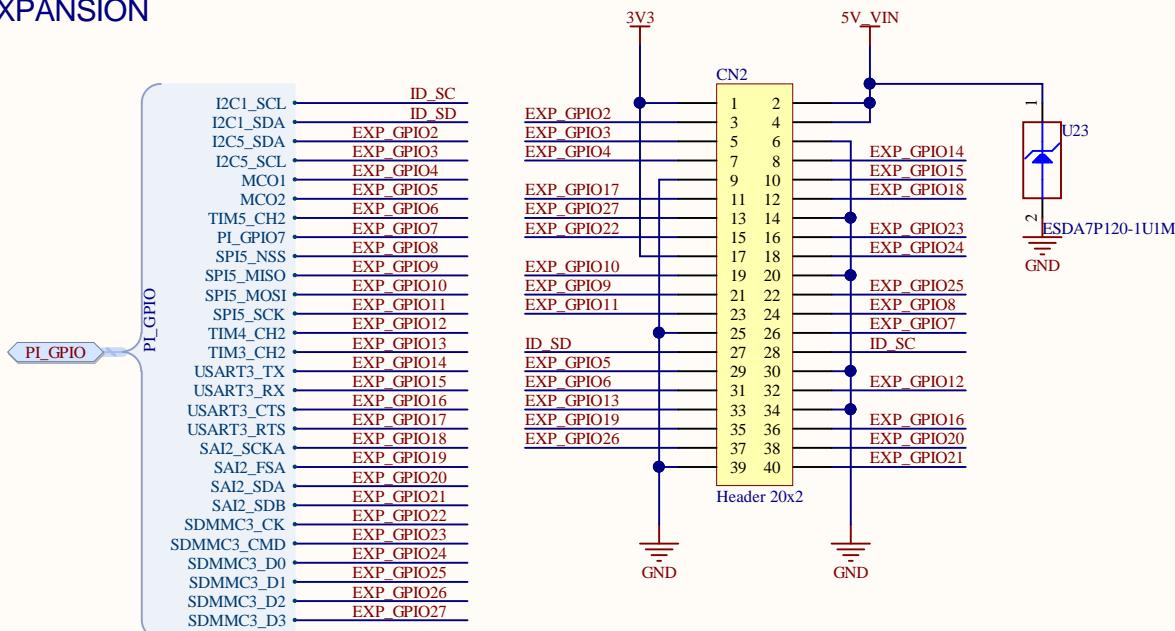
Title: <b>DSI LCD connector</b>	
Project: <b>STM32MP15-DISCO</b>	
Variant: <b>DK1</b>	
Revision: <b>C-02</b>	Reference: <b>MB1272</b>
Size: <b>A4</b>	Date: <b>12-SEP-18</b>
	Sheet: <b>8 of 15</b>

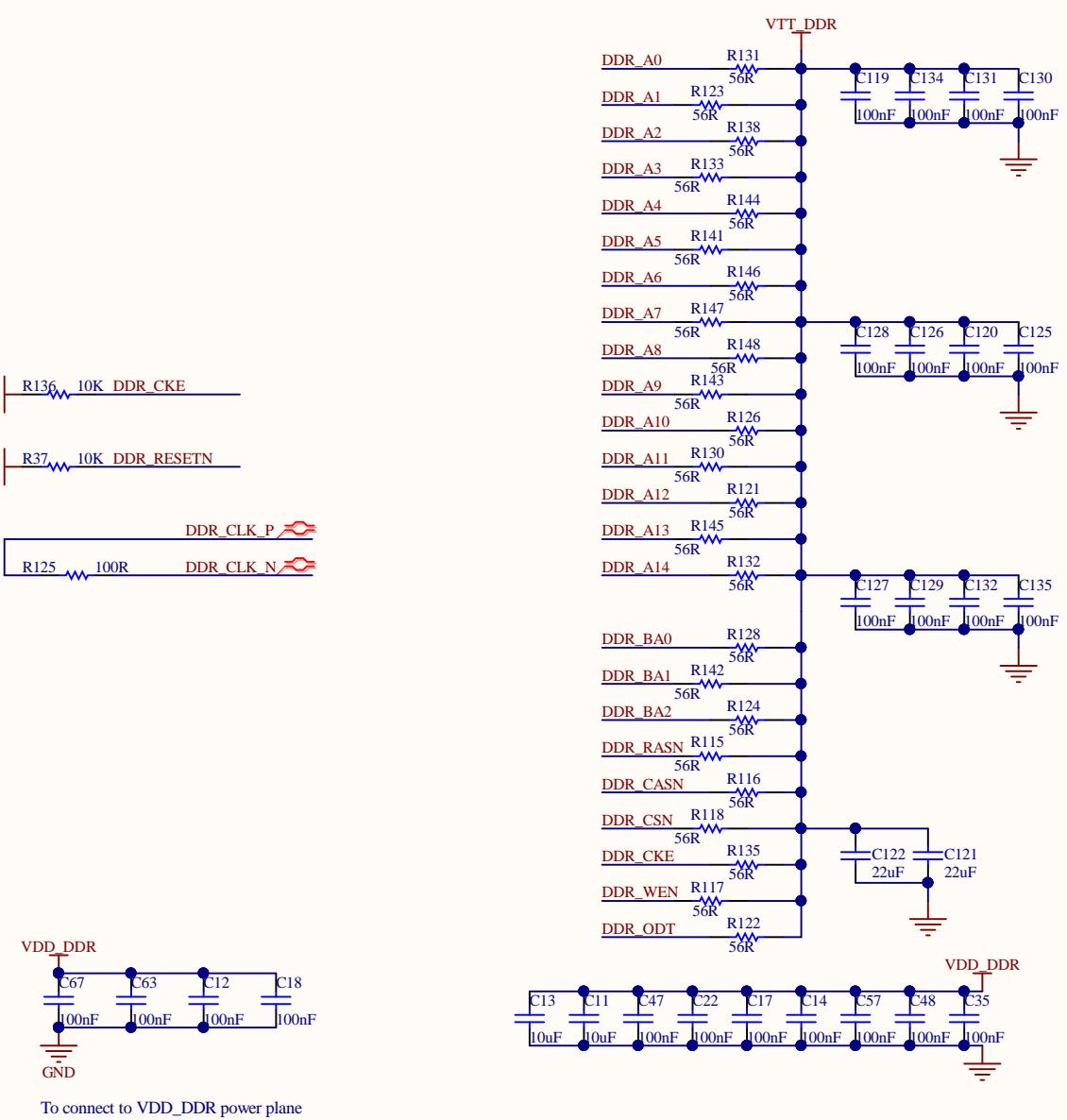
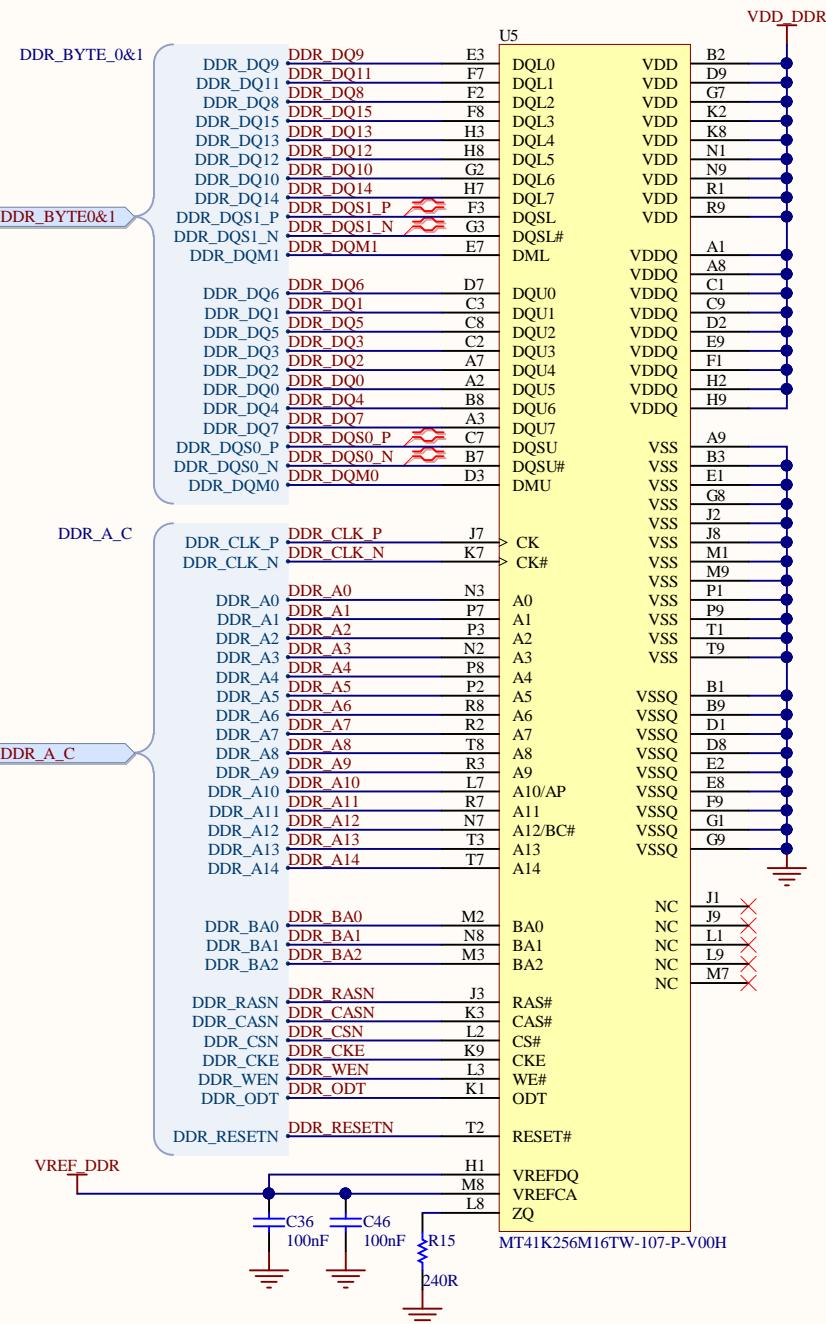


## ARDUINO UNO connector



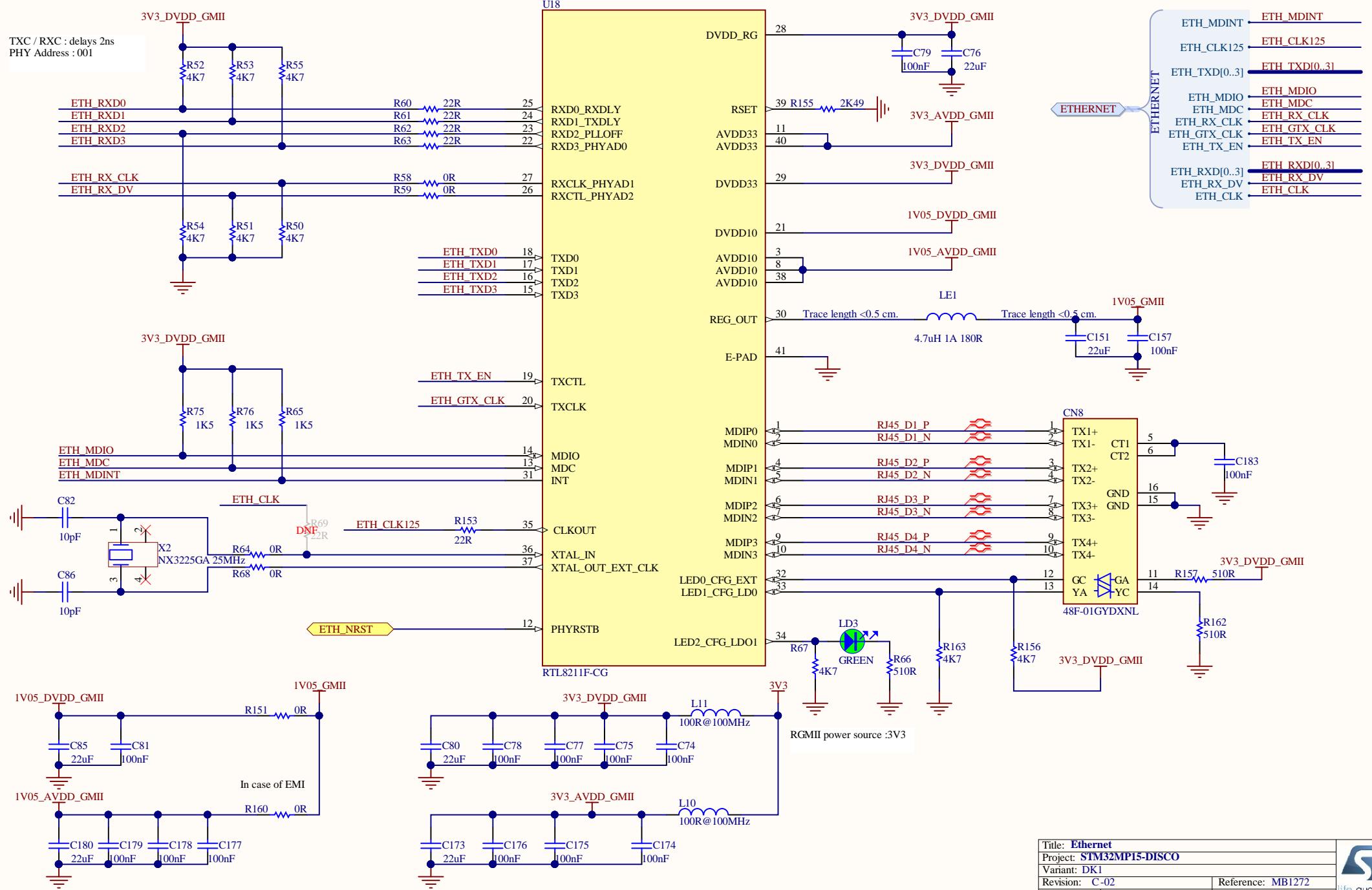
## GPIO EXPANSION



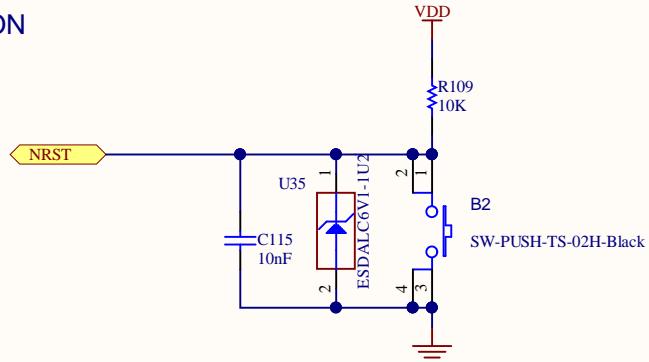


Title: DDR3L 16 bits			
Project: STM32MP15-DISCO			
Variant: DK1			
Revision: C-02			
Size: A4	Date: 12-SEP-18	Reference: MB1272	Sheet: 11 of 15

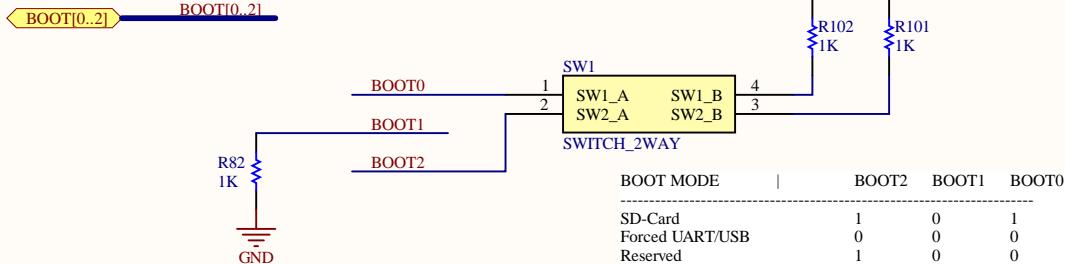




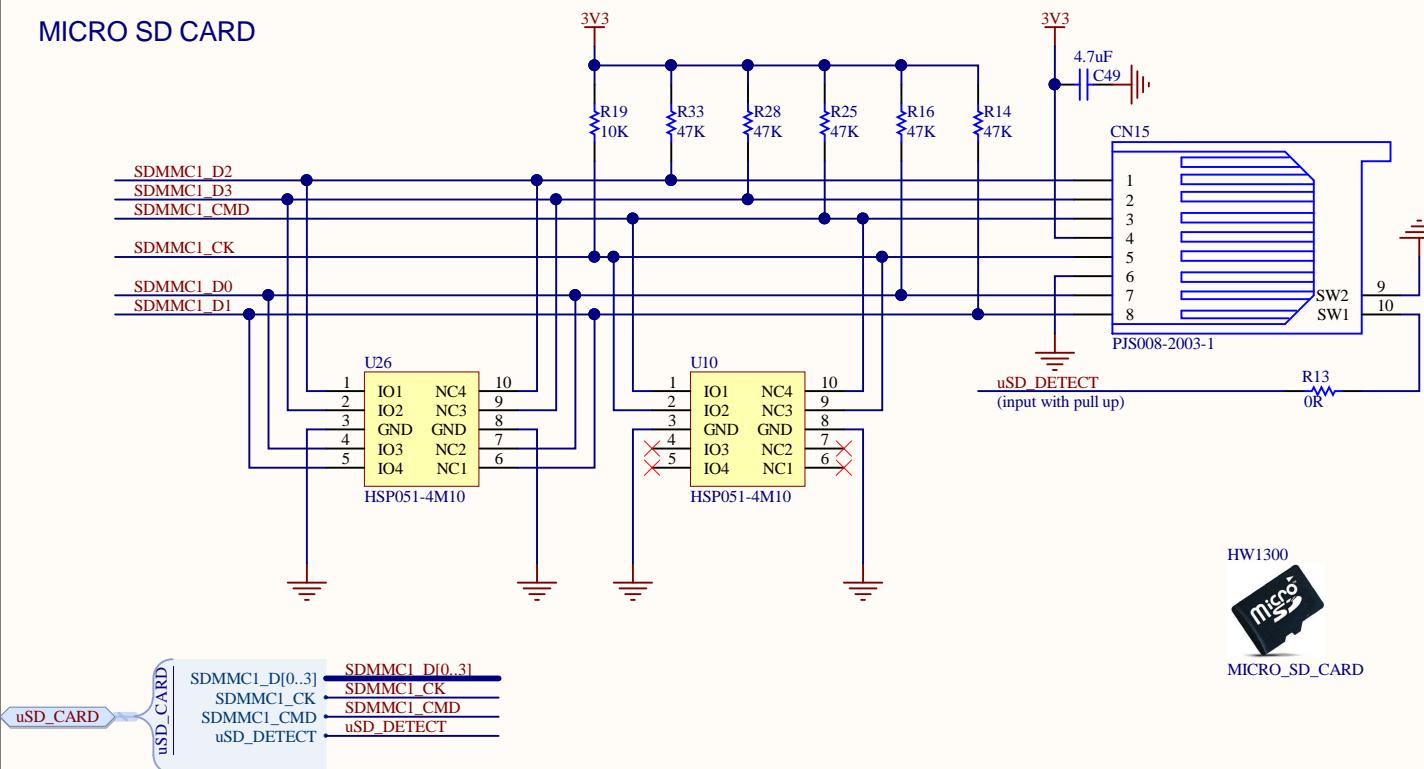
## RESET BUTTON



## BOOT MODE



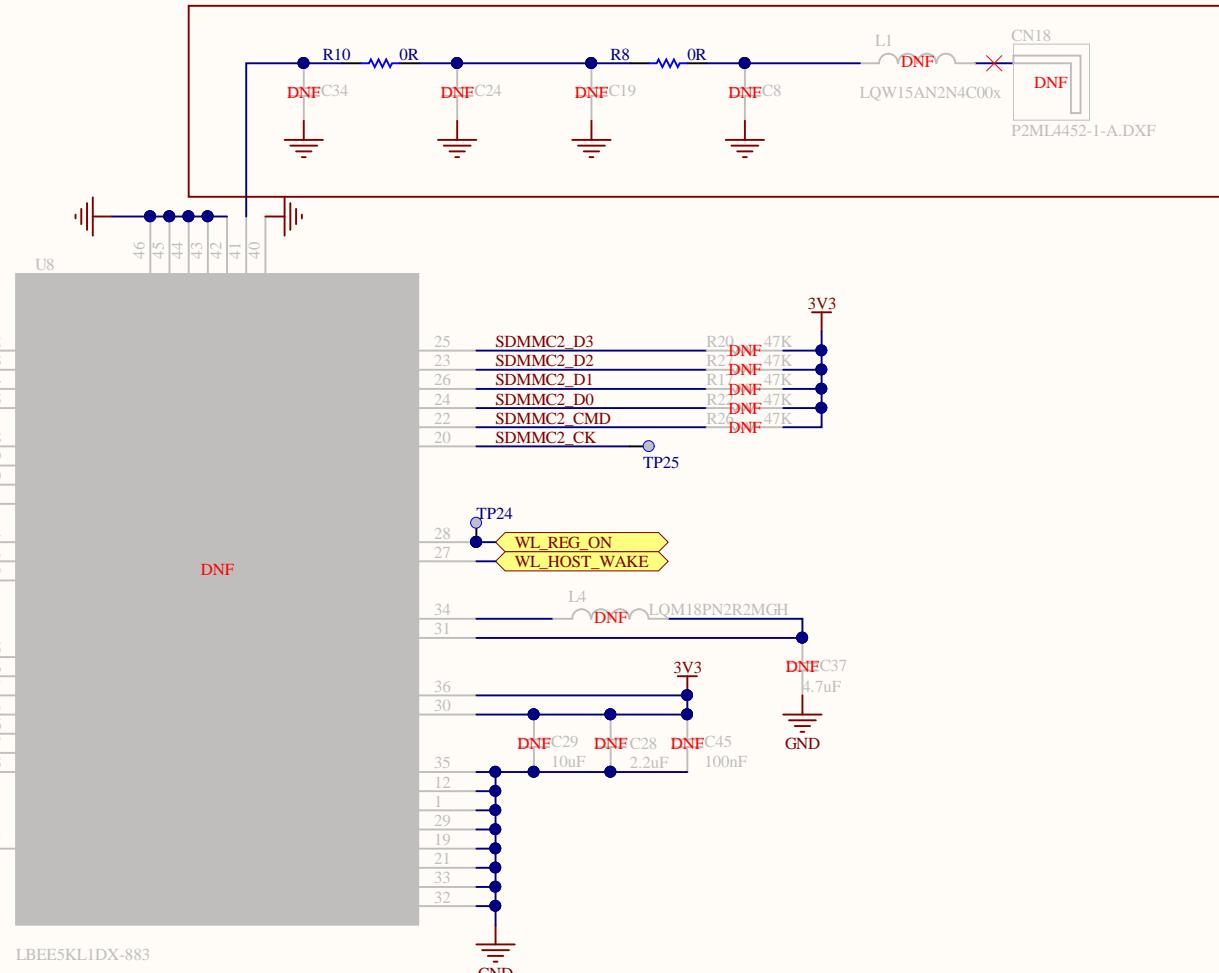
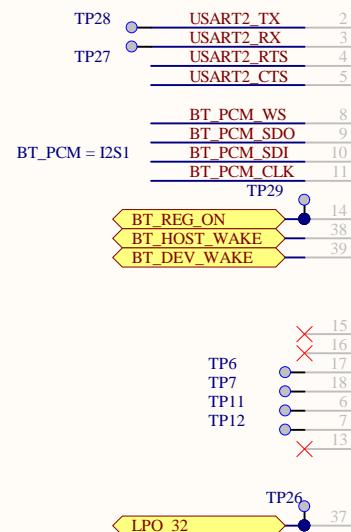
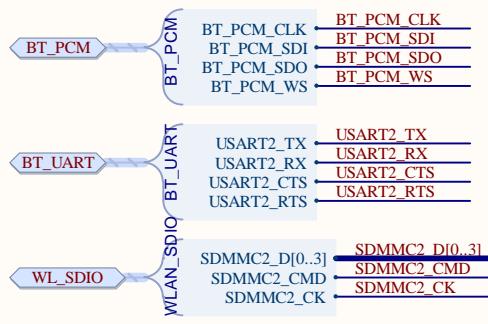
## MICRO SD CARD



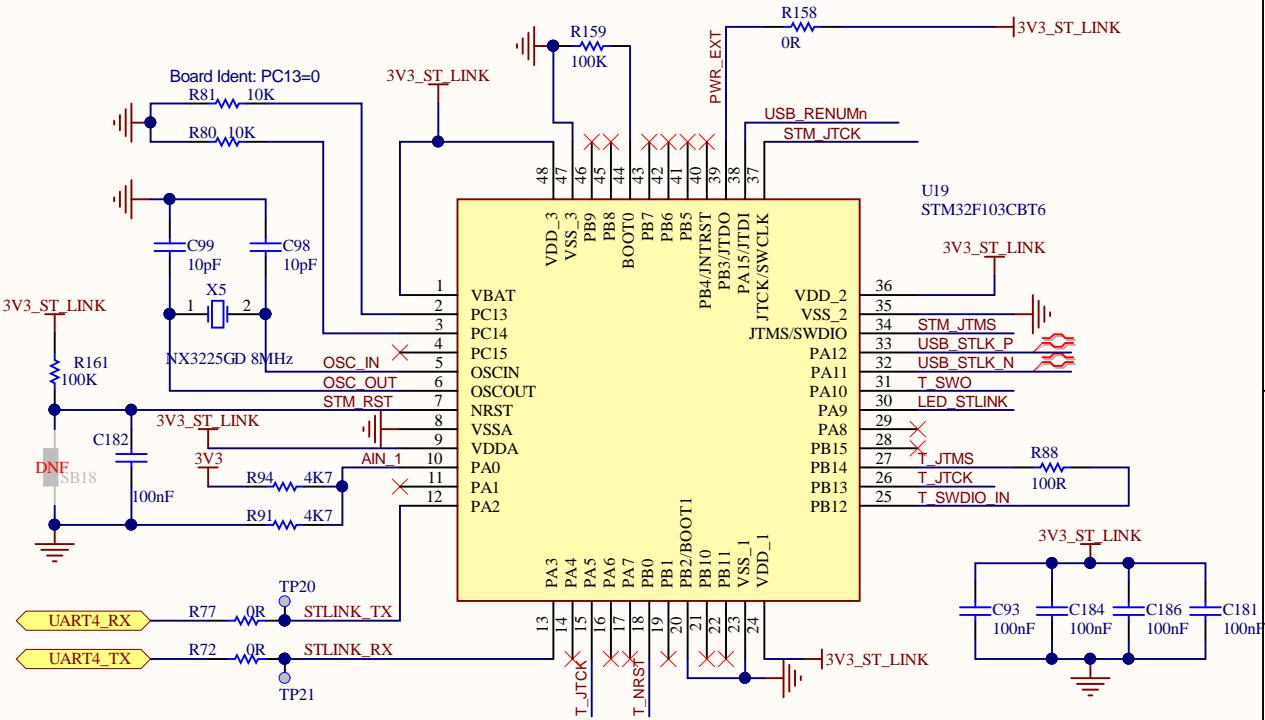
HW1302  
BOARD CPN  
Board CPN

HW1303  
BOARD REF  
MBxxxxy-zz sywwxxxxxx

HW1301  
PCB  
MBxxxxy



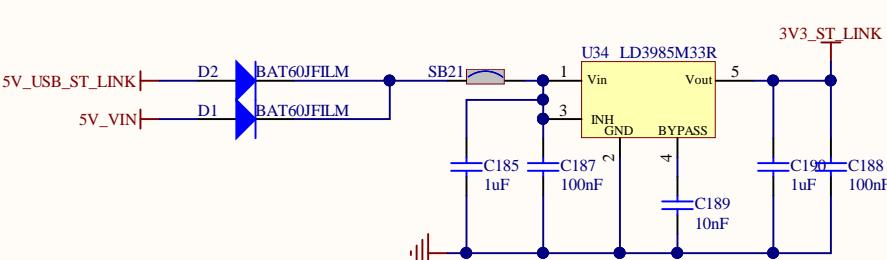
## ST-LINK MCU



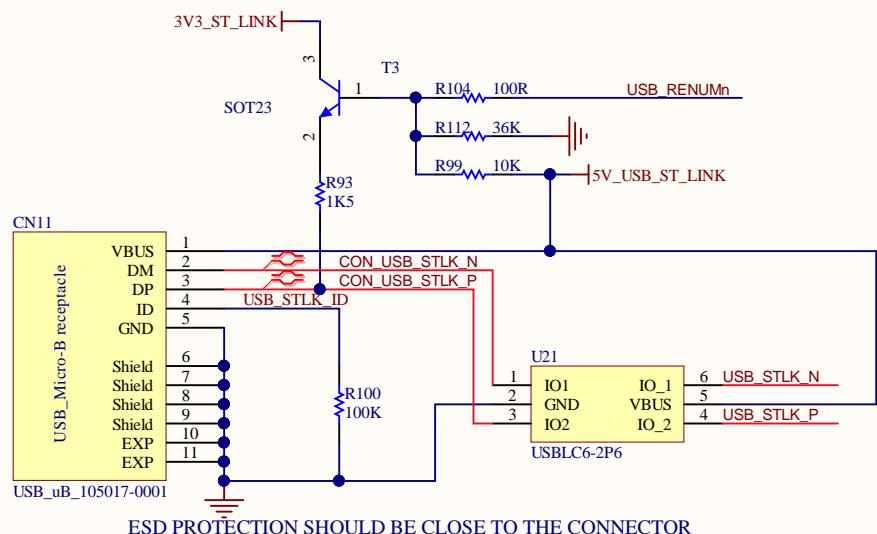
## SWD INTERFACE



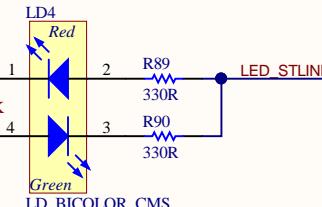
## ST-LINK POWER 3V3 / 150mA



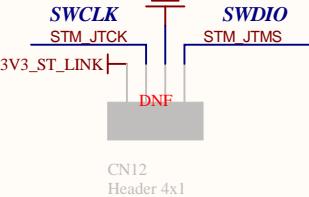
## ST-LINK USB CONNECTOR



## STLINK\_LED



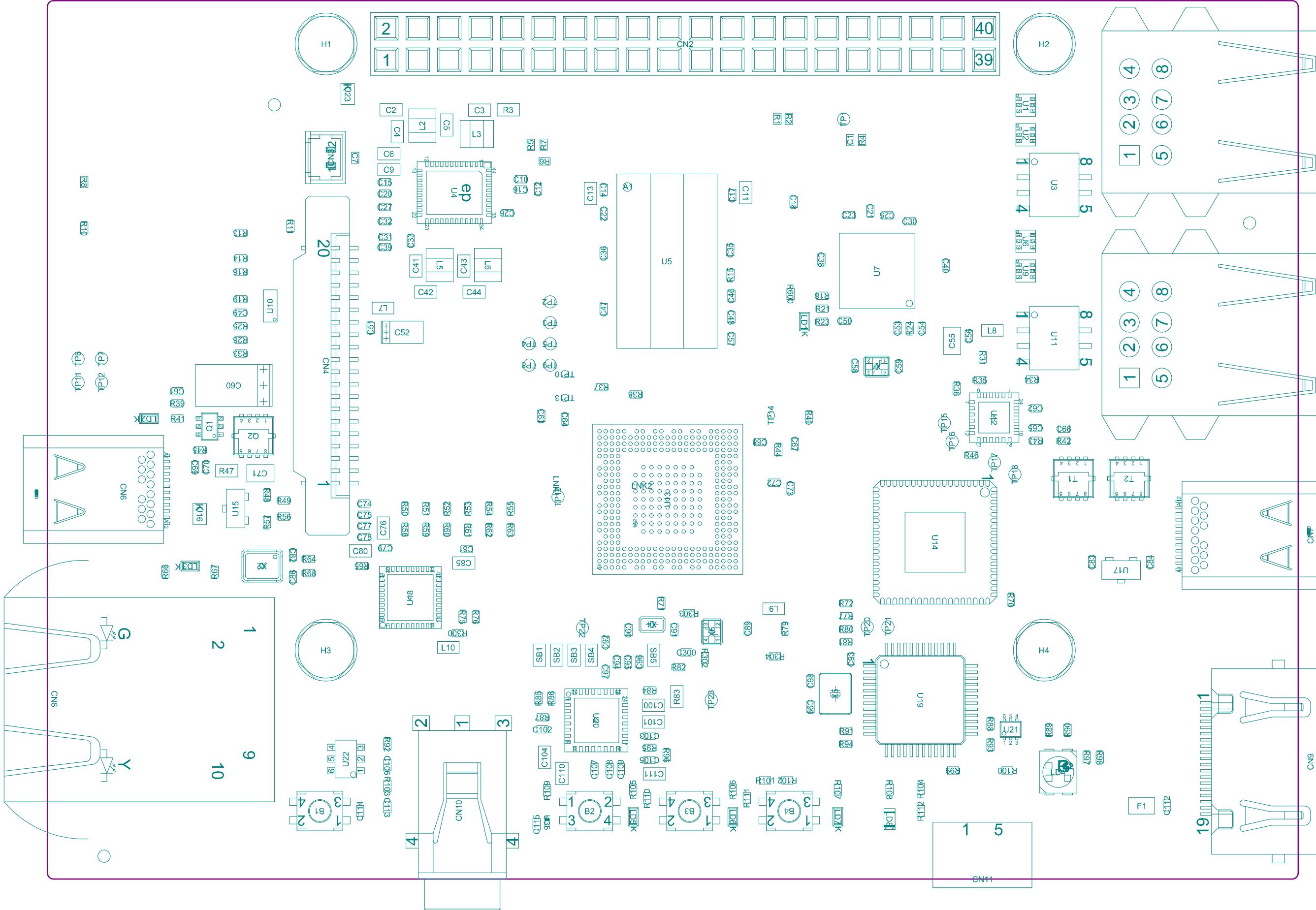
## ST-LINK DFU



Must be on a border of the PCB.

Title: ST-LINK/V2-1 with support of SWD only
Project: STM32MP15-DISCO
Variant: DK1
Revision: C-02
Size: A4
Date: 12-SEP-18
Reference: MB1272
Sheet: 15 of 15





## Project: STM32MP15-DISCO

Layer: M14-Top Assembly

Gerber: .GM14

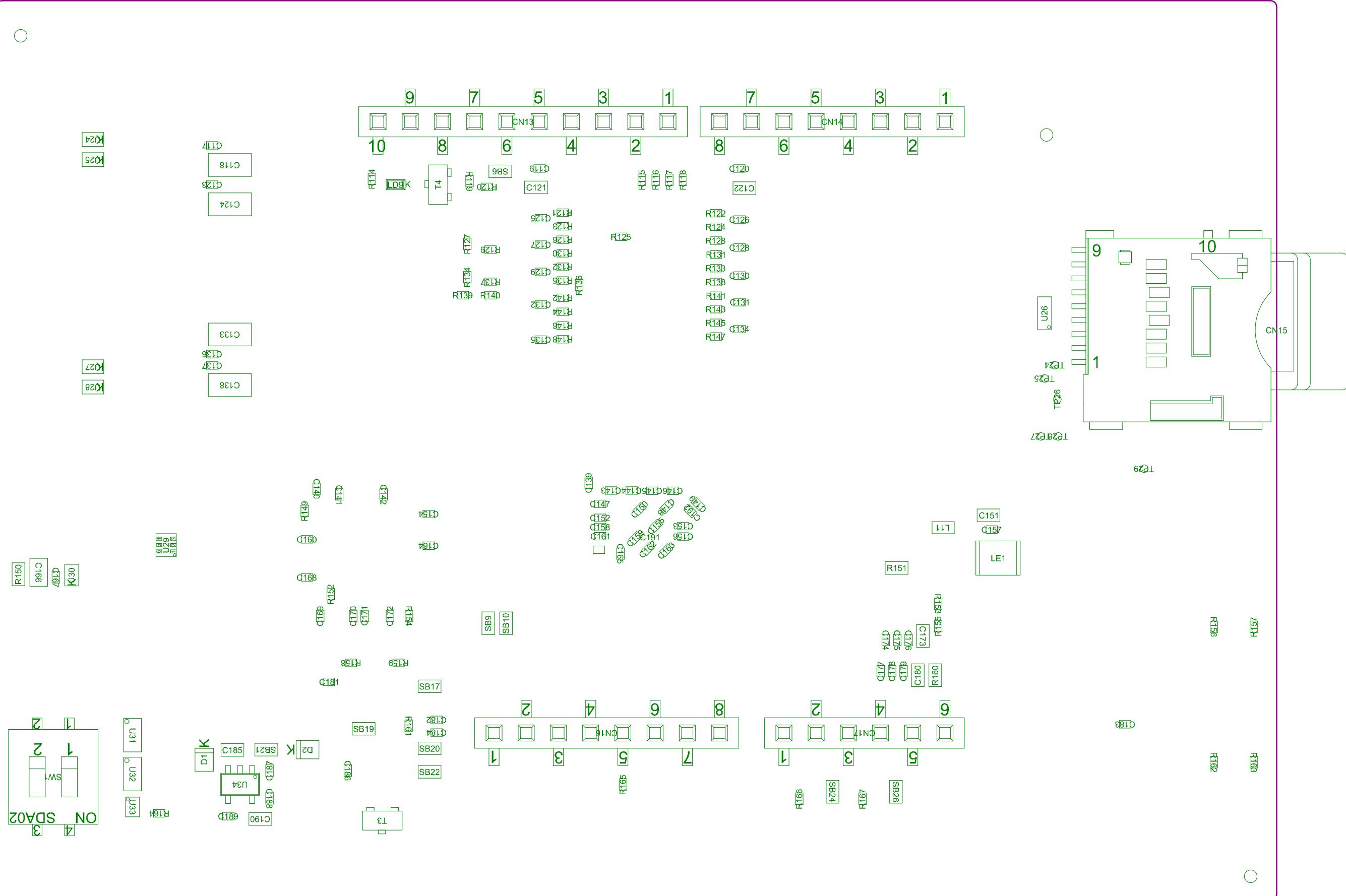
Variant: DK1

Ref: MB1272

Date: 18-SEPT-26

Rev: C





## Project: STM32MP15-DISCO

Layer: M15-Bottom Assembly

Variant: DK1

Date: 18-SEPT-26

Gerber: .GM15

Ref: MB1272

Rev: C

