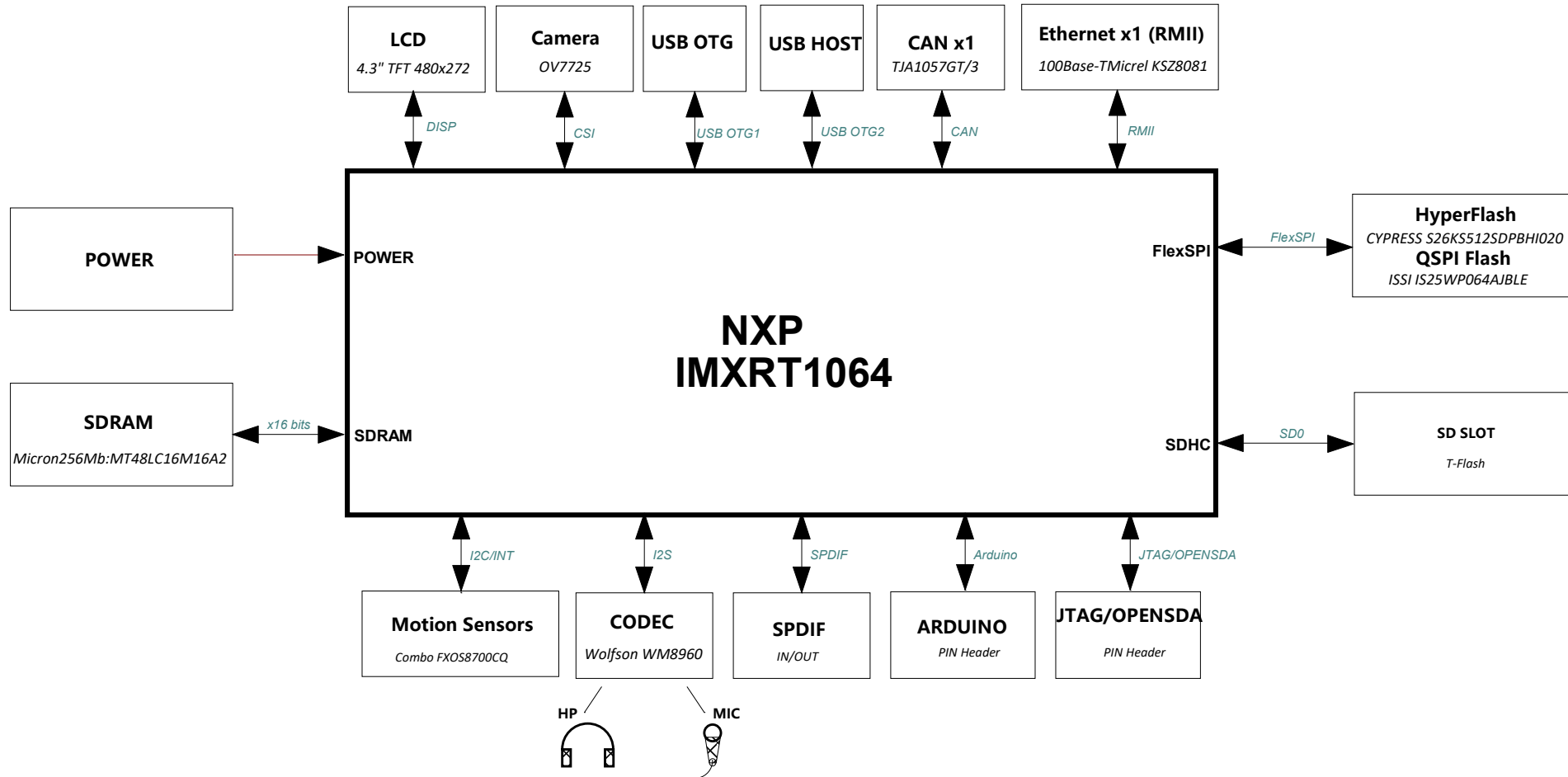





**MIMXRT1064-EVK**

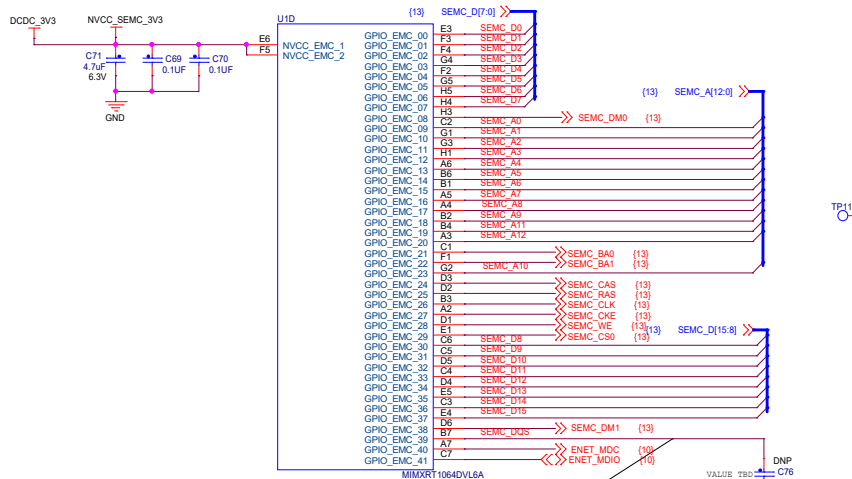


Four circuit diagrams labeled H1, H2, H3, and H4. Each diagram shows a blue rectangular component labeled ".635" LONG" connected to a ground symbol (GND) via a red wire.

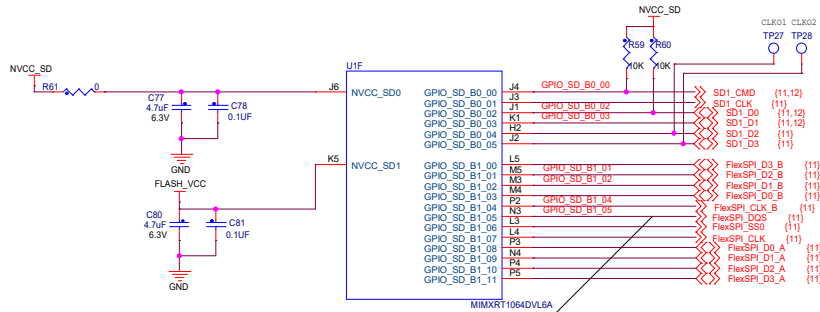
				
ICAP Classification: CP: _____ IUG: X PURL: _____				
Drawing Title: <b>MIMXRT1064-EVK</b>				
Page Title: <b>MAIN POWER</b>				
Size C	Document Number	SCH-32221, PDF: SPF-32221		Rev A2
Date:	Thursday, March 12, 2020	Sheet	3	of 17



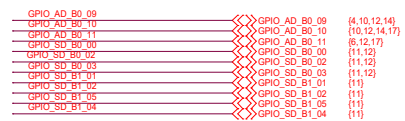
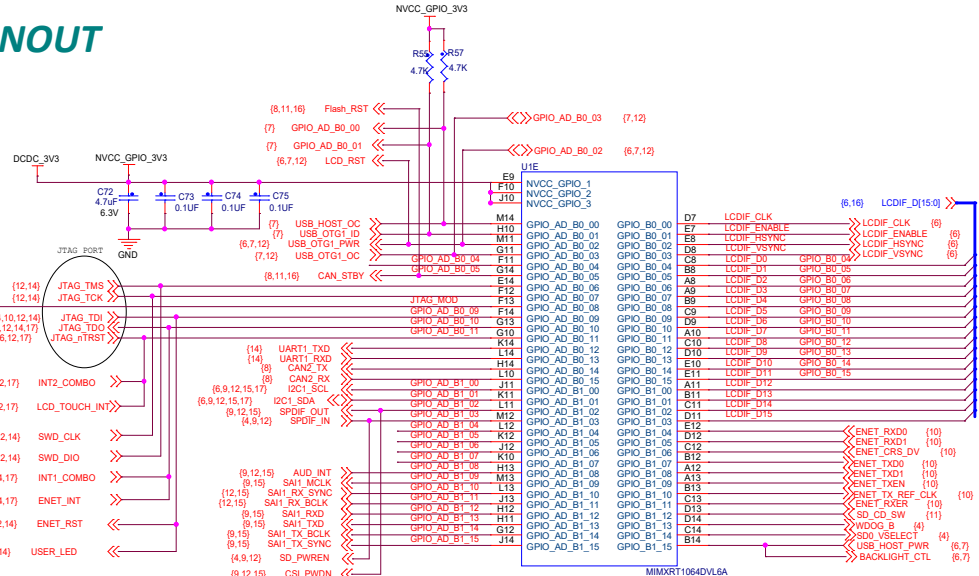
# MCU PINOUT



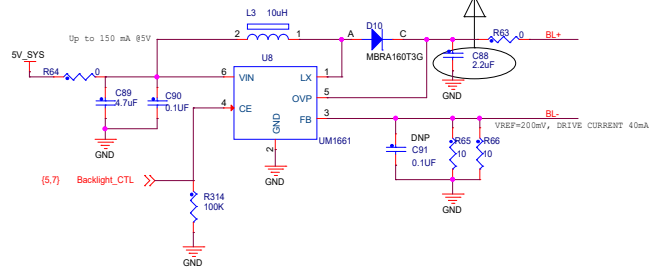
SEMC DQS PIN need floating for SDRAM RW @166MHz



FlexSPI DQS PIN need floating for QSPI Flash RW @133MHz

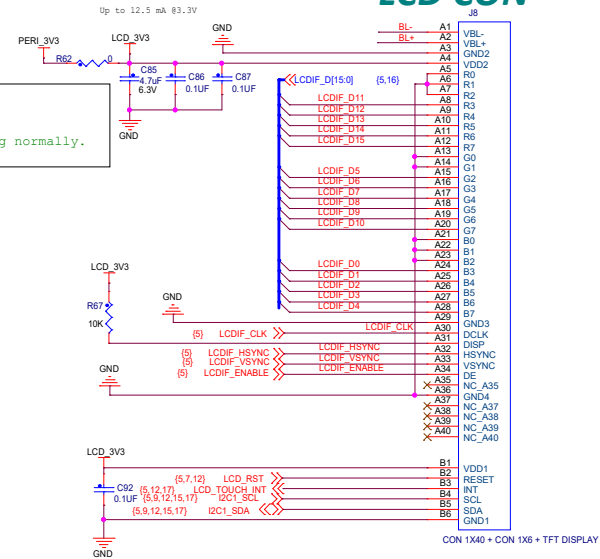


## Backlight Control

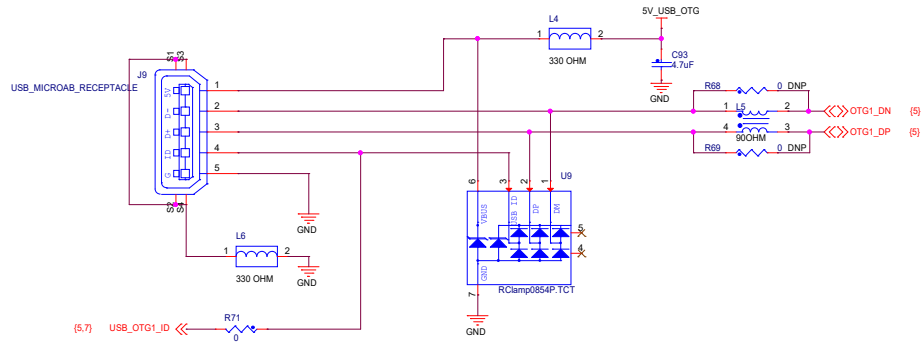


Note:  
If you use LCD module for Rev A, need to  
change C88 to 2.2uf/35V or 1.0uf/35V  
to ensure the backlight control circuits working normally.

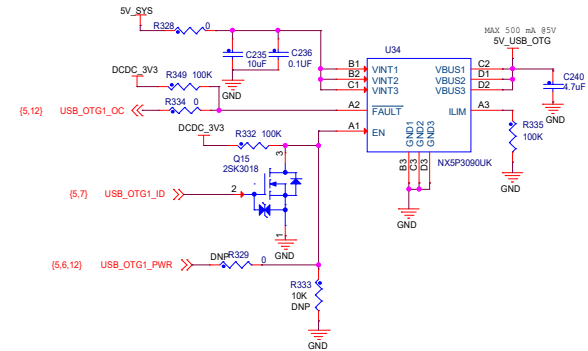
## LCD CON



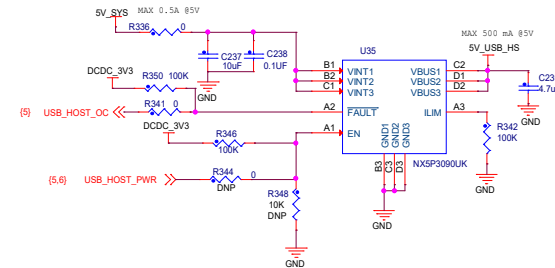
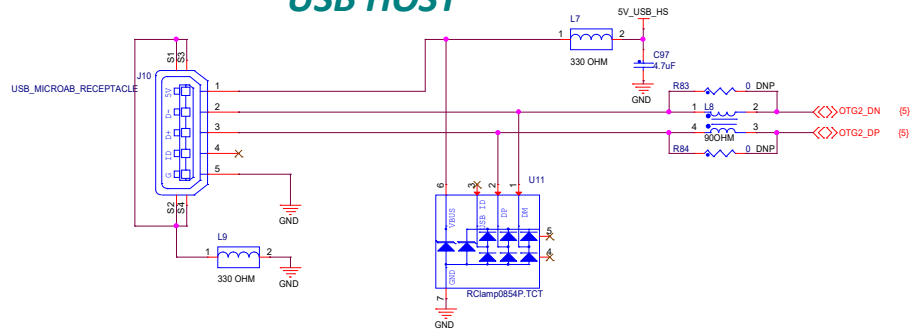
## USB OTG



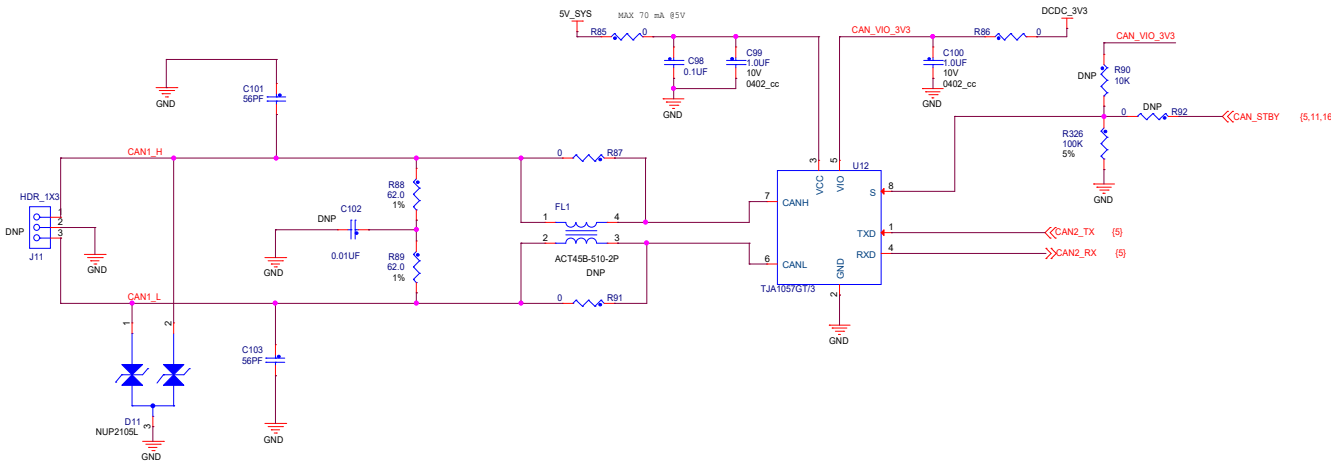
## USB POWER



## USB HOST

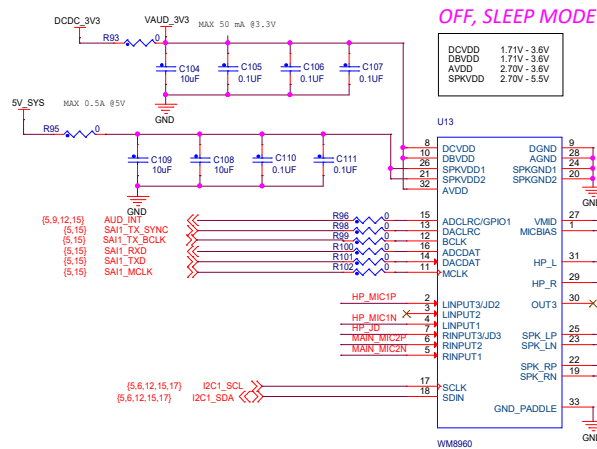


## CAN BUS

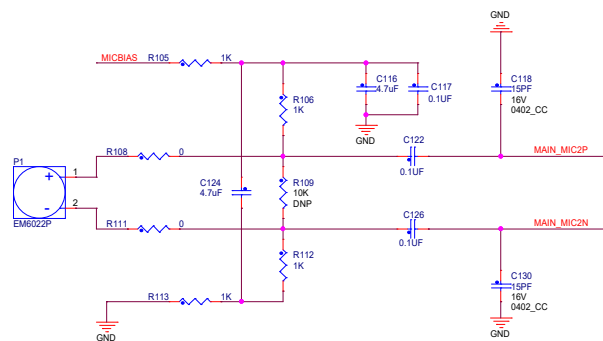


ICAP Classification:		CP: _____	IUD: X	PUBI: _____
Drawing Title:				
<b>MIMXRT1064-EVK</b>				
Page Title:				
<b>CAN</b>				
Size C	Document Number			Rev A2
	SCH-32221, PDF: SPF-32221			
Date:	Thursday, March 12, 2020	Sheet	8	of 17

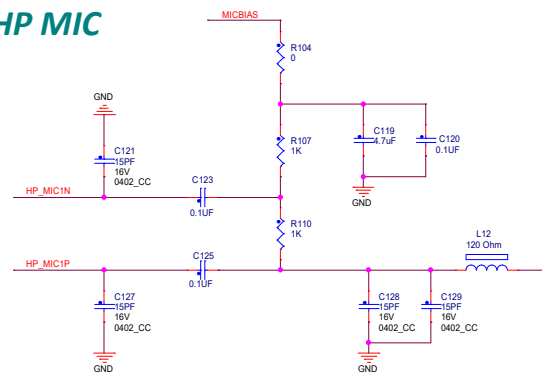




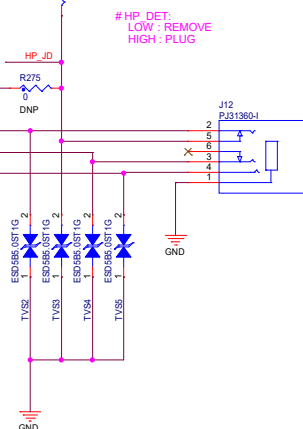
## Main Board MIC



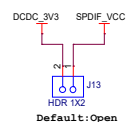
## HP MIC



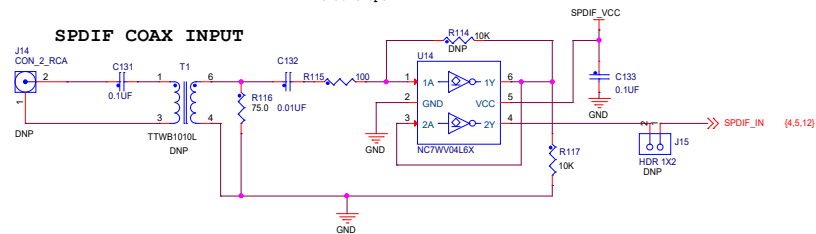
## HP JACK



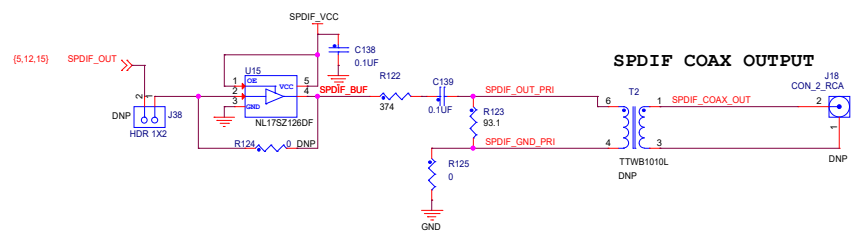
## SPDIF INTERFACE



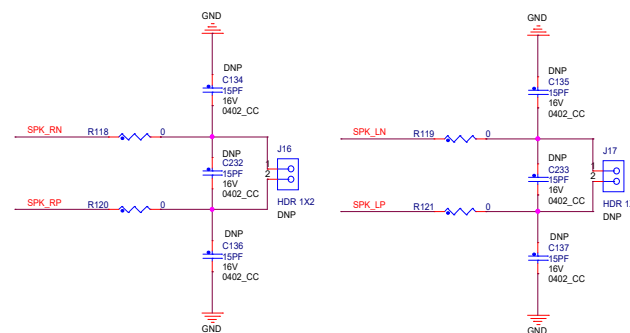
### SPDIF COAX INPUT



### SPDIF COAX OUTPUT

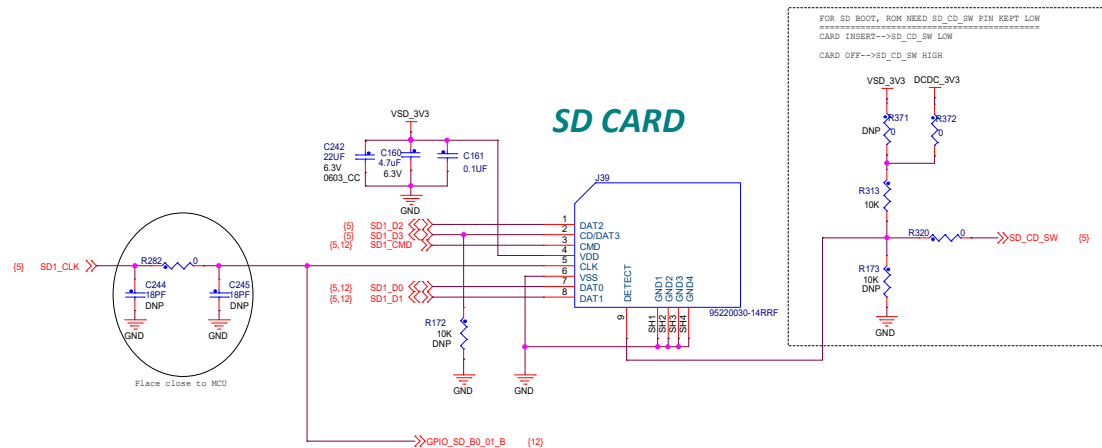


## Speaker



ICAP Classification: CP: IUX: X PUB:			
Drawing Title: <b>MIMXRT1064-EVK</b>			
Page Title: <b>AUDIO</b>			
Size C	Document Number SCH-32221, PDF: SPF-32221	Rev A2	
Date: Thursday, March 12, 2020	Sheet 9 of 17		

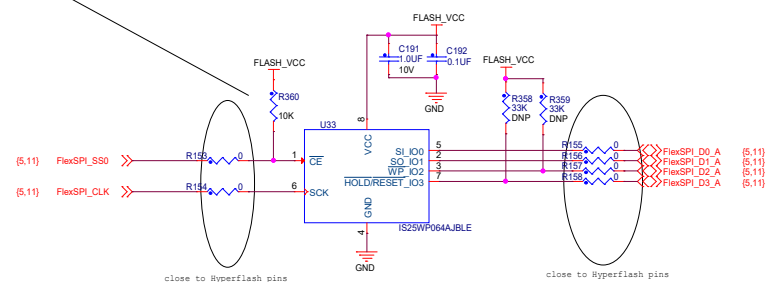
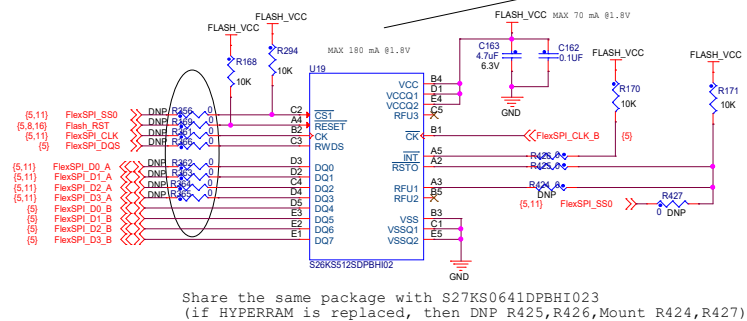




## 1V8 HyperFlash

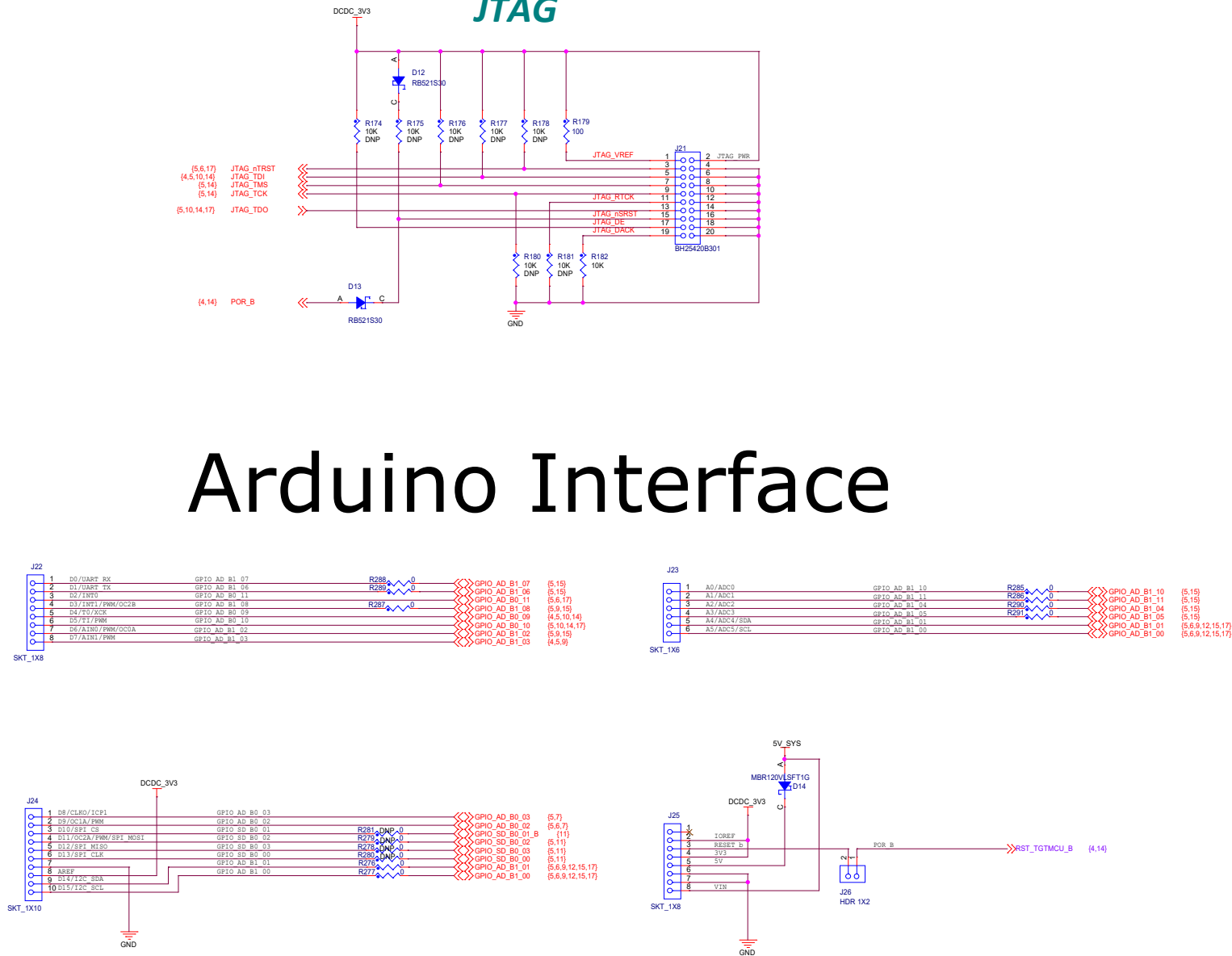
OPTION1: USE Hyperflash( DNP R153~R158, Mount R356,R361~R366)  
OPTION2: USE QSPI FLASH(Mount R153~R158, DNP R356,R361~R366)

## 1V8 QSPI Flash

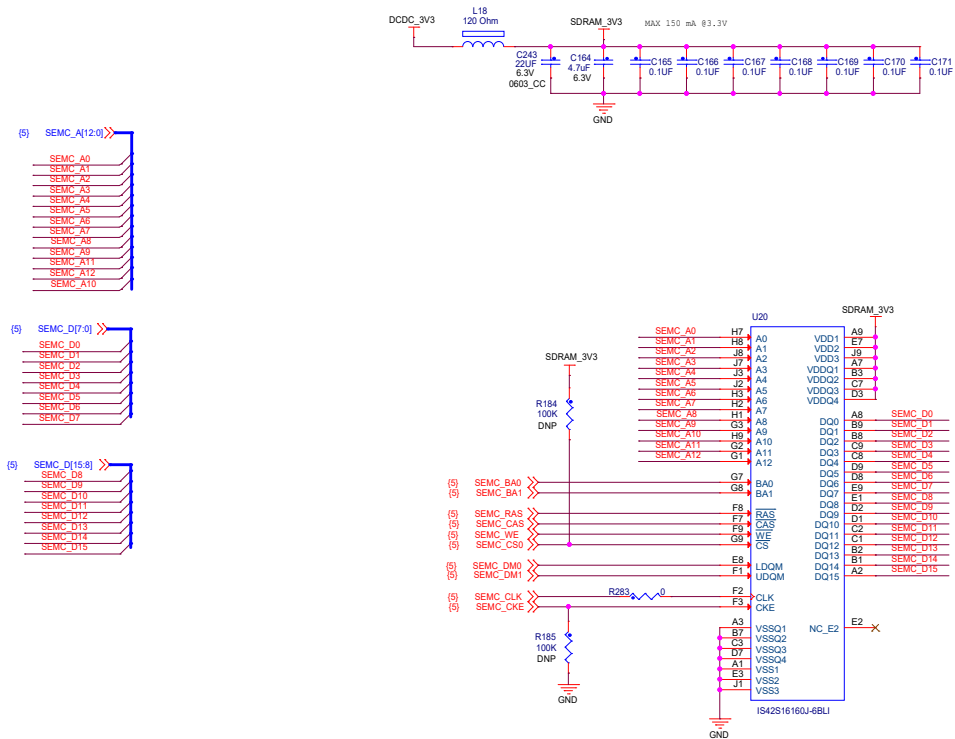


ICAP Classification: CP: IUX: X PUB:			
Drawing Title: <b>MIMXRT1064-EVK</b>			
Page Title: <b>SD/FLASH</b>			
Size C	Document Number SCH-32221, PDF: SPF-32221	Rev A2	
Date: Thursday, March 12, 2020	Sheet 11 of 17		

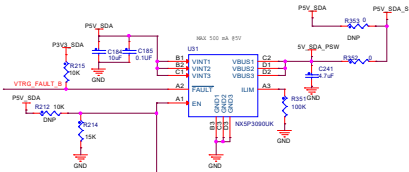
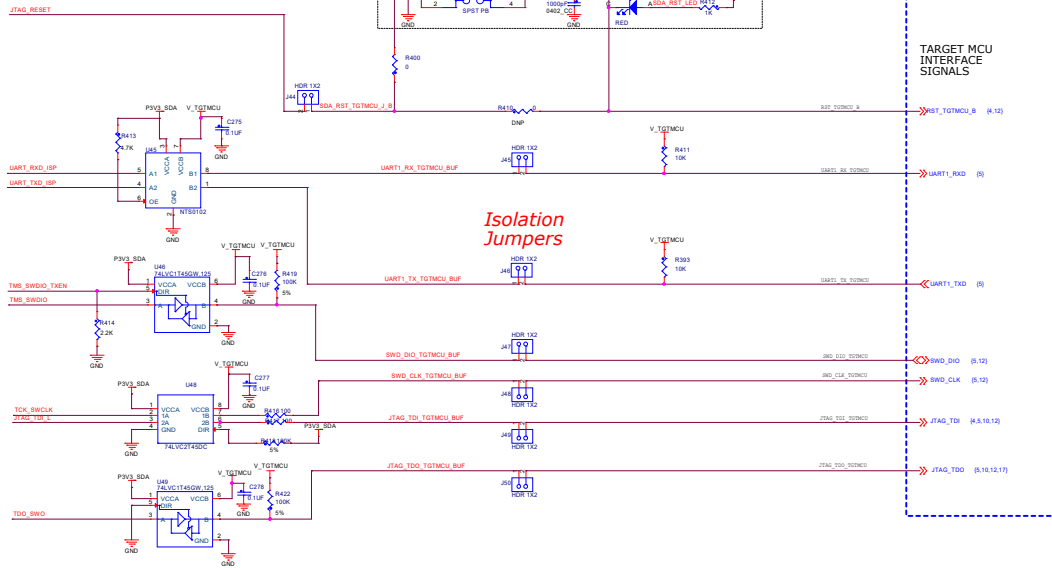
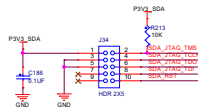
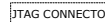
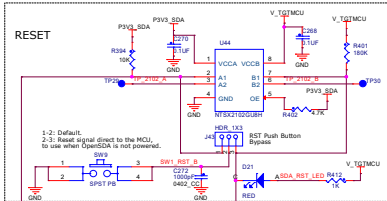
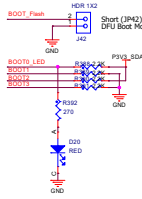
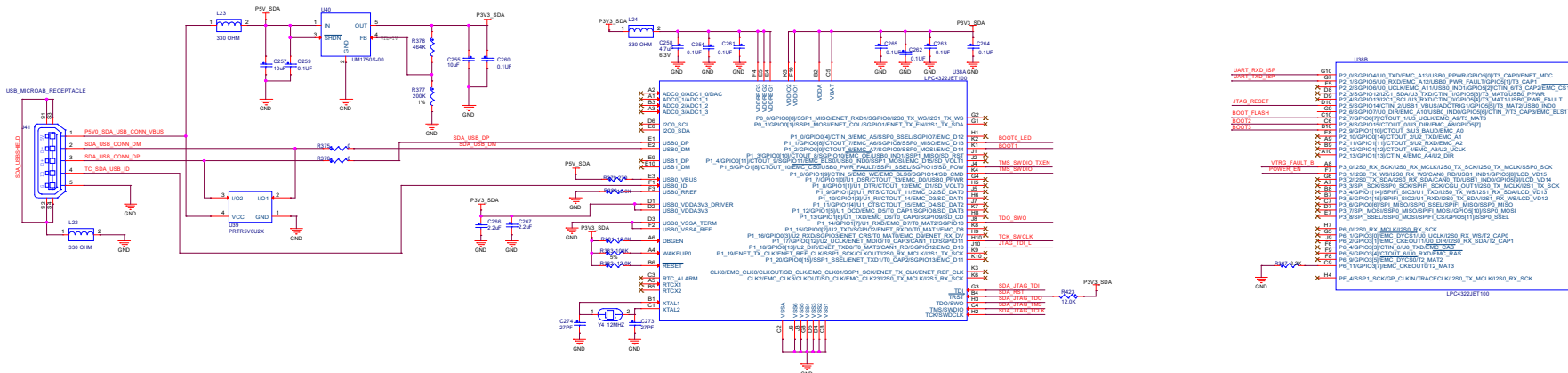
# Arduino Interface



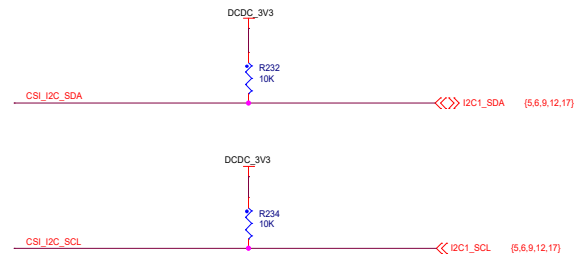
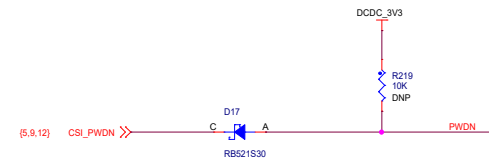
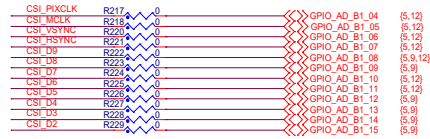
# SDRAM



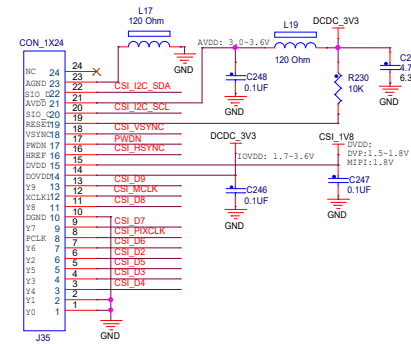
# Freelink Interface



## Camera Signals



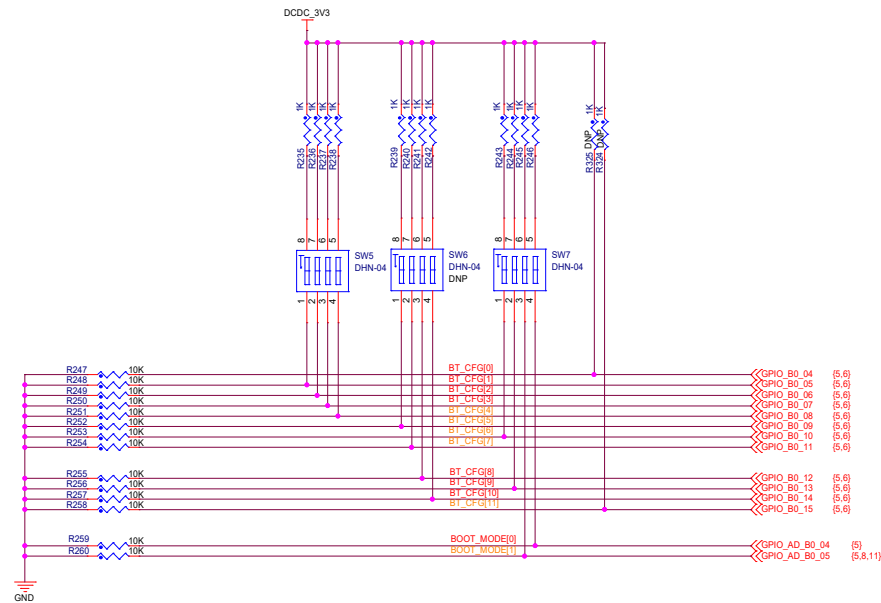
## FPC FOR MT9M114/OV7725 MODULE



ICAP Classification: _____		CP: _____	IUD: X	PUBI: _____
Drawing Title: <b>MIMXRT1064-EVK</b>				
Page Title: <b>CSI</b>				
Size C	Document Number SCH-32221, PDF: SPF-32221			Rev A2
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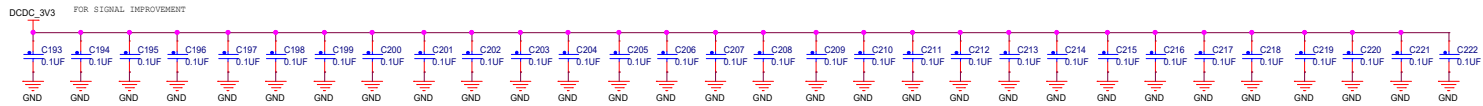
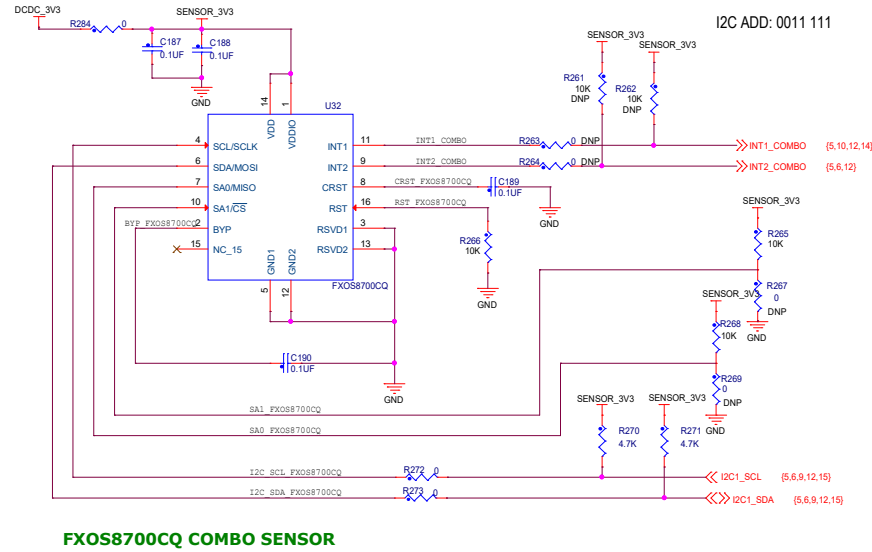
## FUSE MAP

TYPE	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1	0/1
FlexSPI - Serial NOR	Infinit-Loop: (Debug USE only) 0 - Disable 1 - Enable	FLASH_TYPE 000-Device supports 3B read by default 001-Device supports 4B read by default 010-HyperFlash 1V8 011-HyperFlash 3V3 100-MXIC Octal DDR			0	0	0	0		HOLD TIME: 00 - 500us 01 - 1ms 10 - 3ms 11 - 10ms	EncryptedXIP 0 - Disabled 1 - Enabled	Reserved
SD	Infinit-Loop: (Debug USE only) 0 - Disable 1 - Enable	Reserved	Bus Width: 0 - 1-bit 1 - 4-bit	SD1 VOLTAGE SELECTION: 0 - 3.3V 1 - 1.8V	0	1		SD/SDXC Speed: 00 - Normal/SDR12 01 - High/SDR25 10 - SDR50 11 - SDR104	SD Power Cycle Enable: '0' - No power cycle '1' - Enabled via USDHC_RST pad	SD Loopback Clock Source Sel: (for SDR50 and SDR104 only) '0' - through SD '1' - direct	Port Select: 0 - eSDHC1 1 - eSDHC2	Fast Boot: 0 - Regular 1 - Fast Boot





## COMBO SENSOR



ICAP Classification: _____		CP: _____	IUC: X	PUBI: _____
Drawing Title: <b>MIMXRT1064-EVK</b>				
Page Title: <b>MISC</b>				
Size C	Document Number SCH-32221, PDF: SPF-32221			Rev A2
Date:	Thursday, March 12, 2020	Sheet	17	of 17