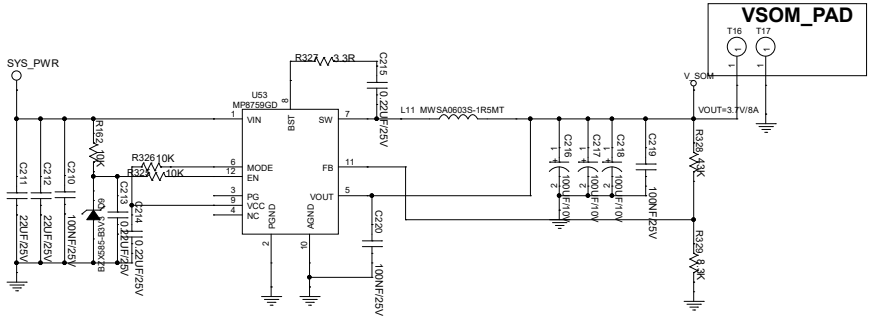
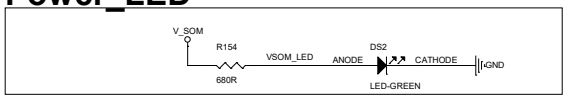
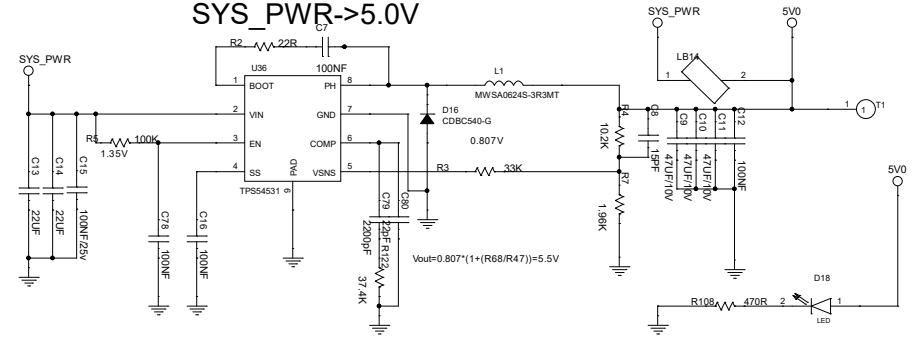
Power Supply1

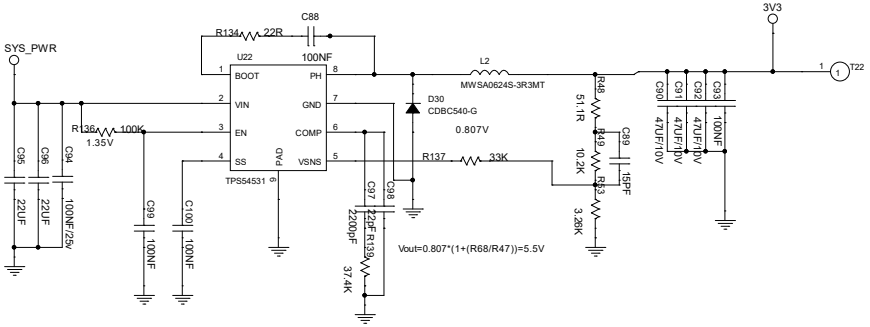


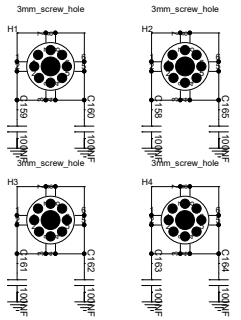
Power_LED



SYS_PWR->5.0V





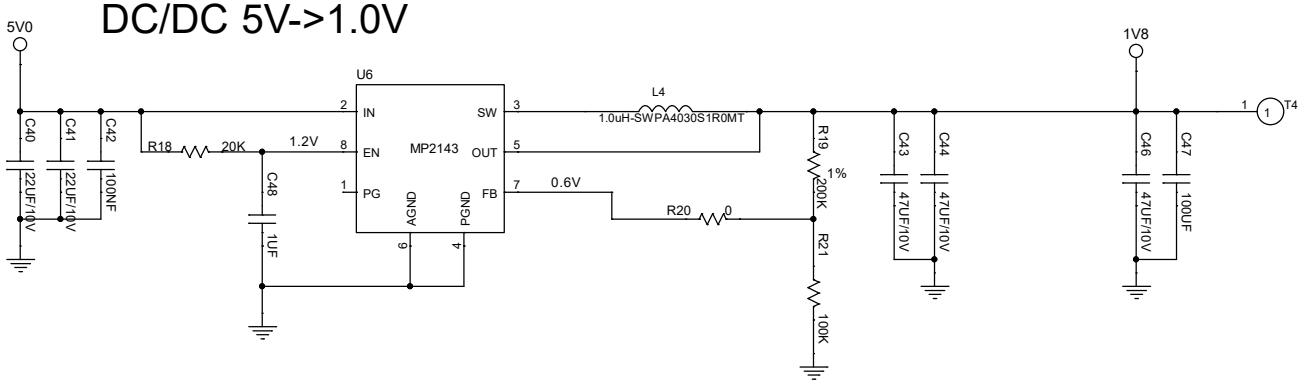


The type and specification of the components refer to the BOM

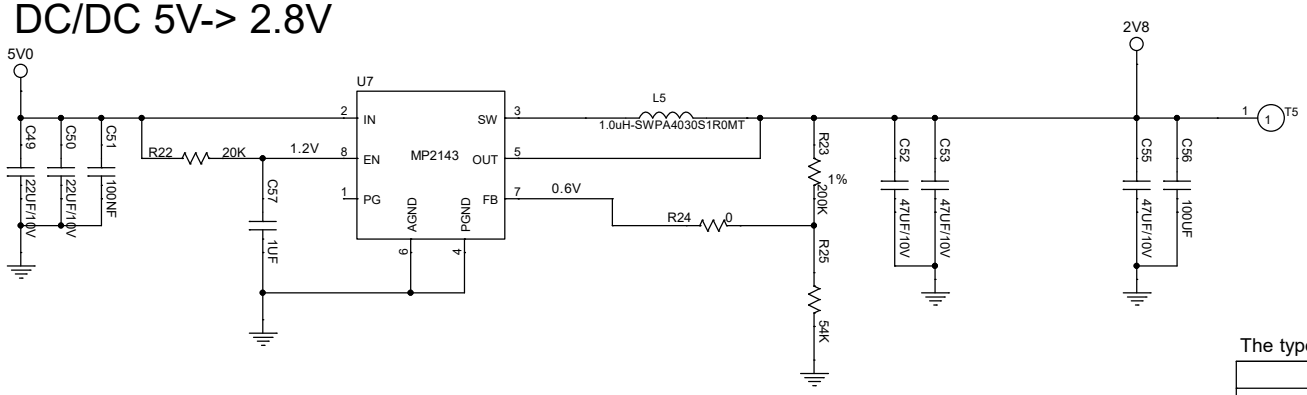
				NA	
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 5 OF 34	
		B			

Power Supply2

DC/DC 5V->1.0V



DC/DC 5V-> 2.8V



The type and specification of the components refer to the BOM

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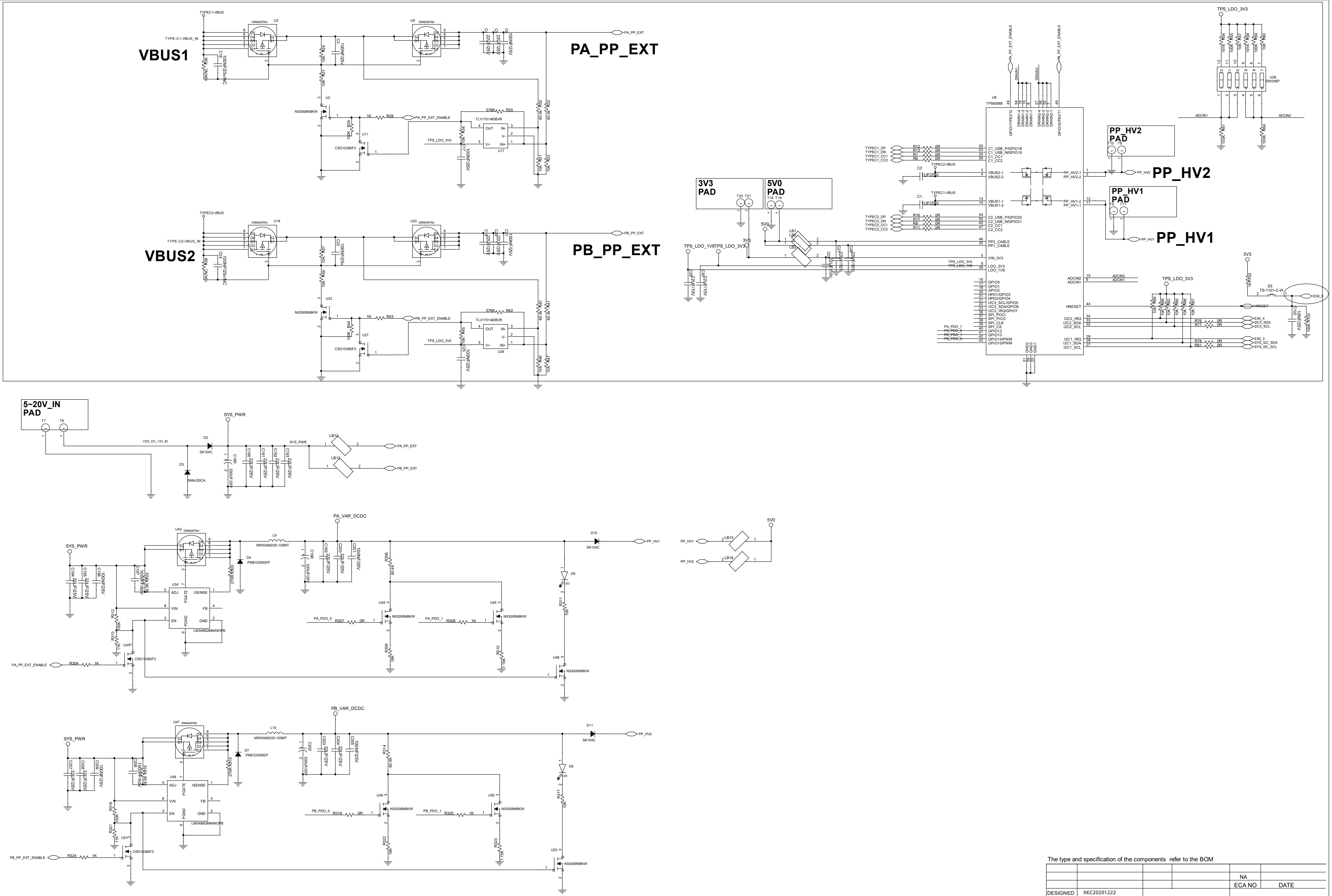
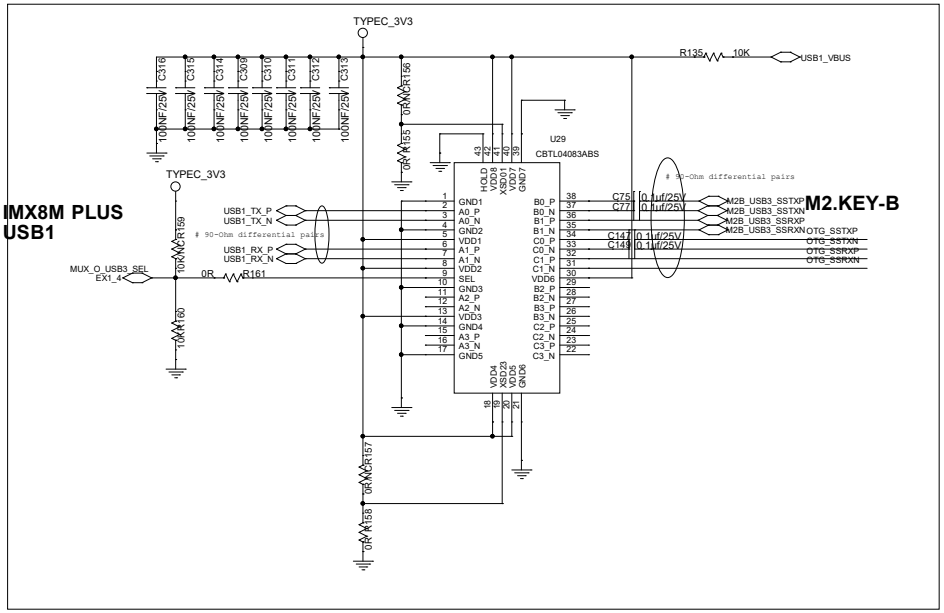
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 7 OF 34	
		B			



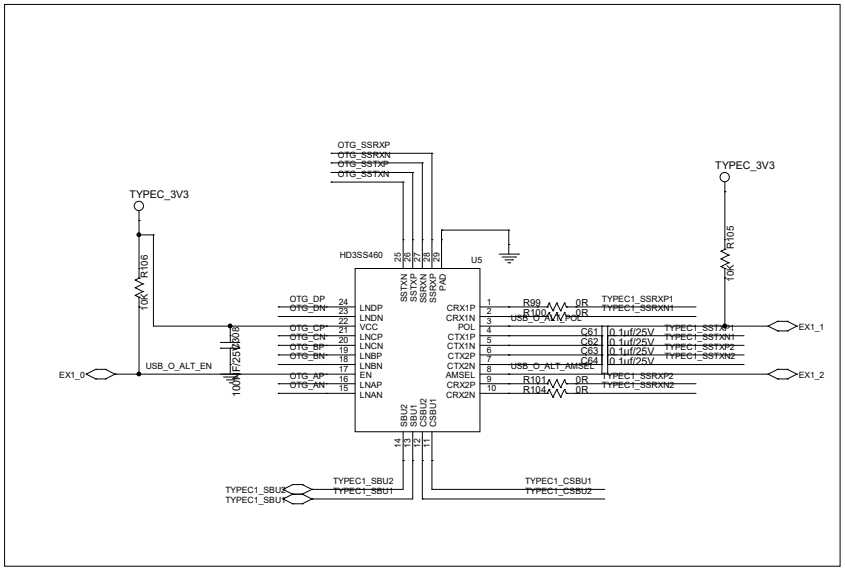
The type and specification of the components refer to the BOM

			NA	
			ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE		
REVIEWED	XKC			
		VER	PART_NUMBER	SHEET 9 OF 34
		B		

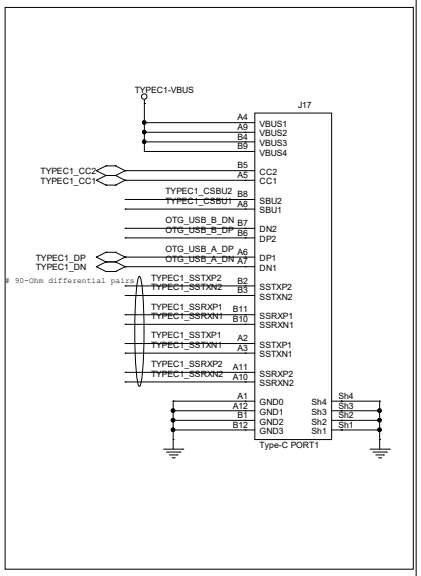
CBTL04083



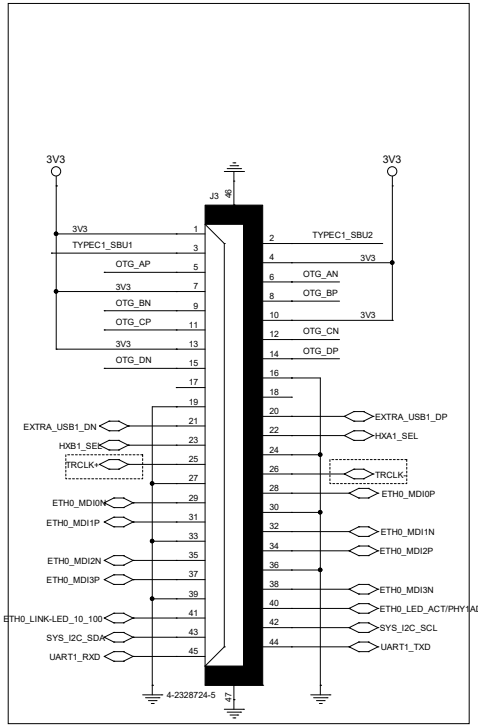
HD3SS460



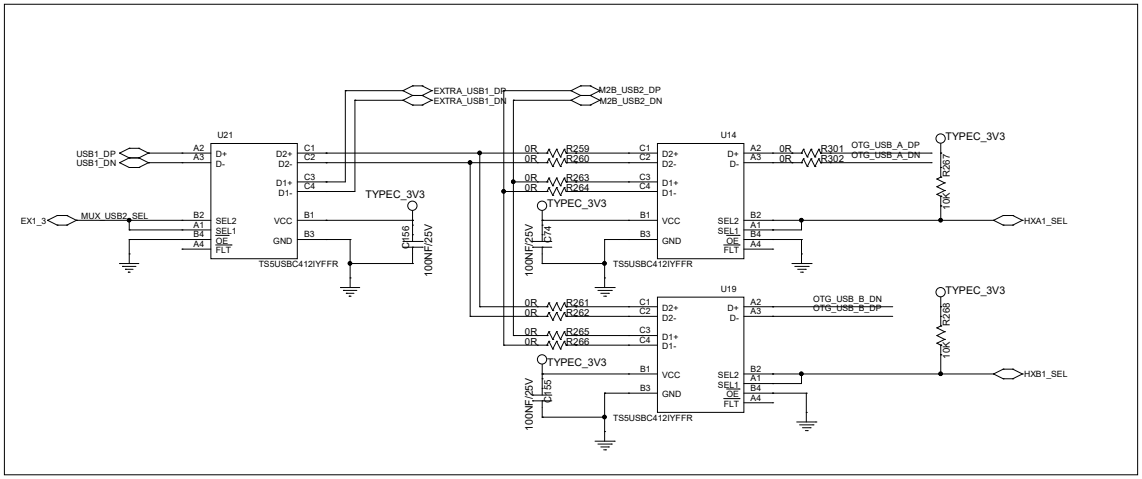
TYPE-C OTG

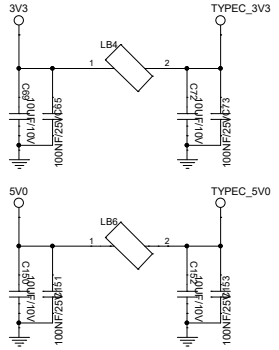


OTG ALT



OTG USB2.0

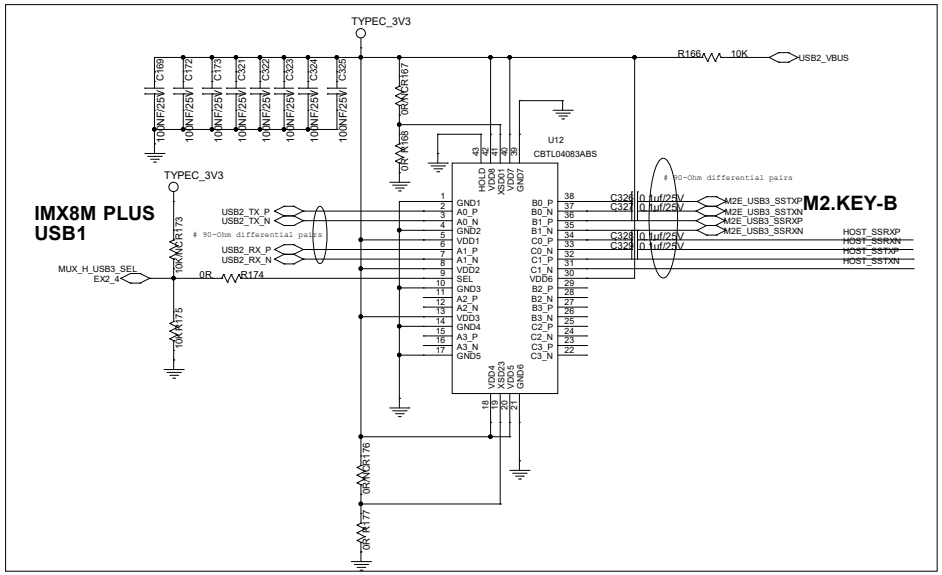




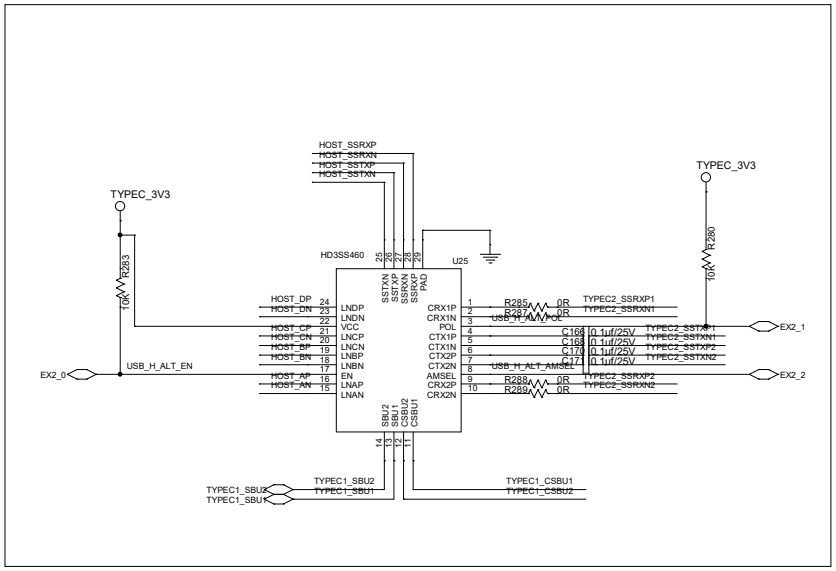
The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			

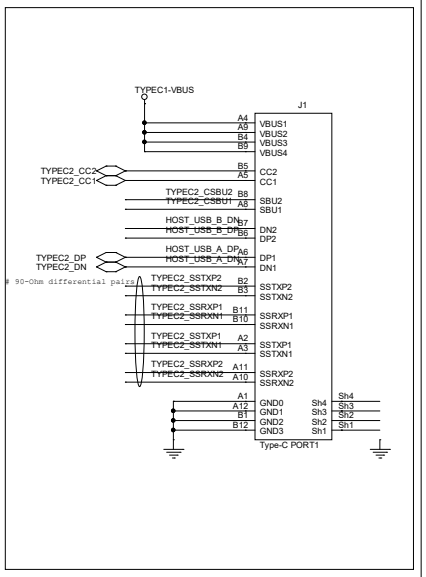
CBTL04083



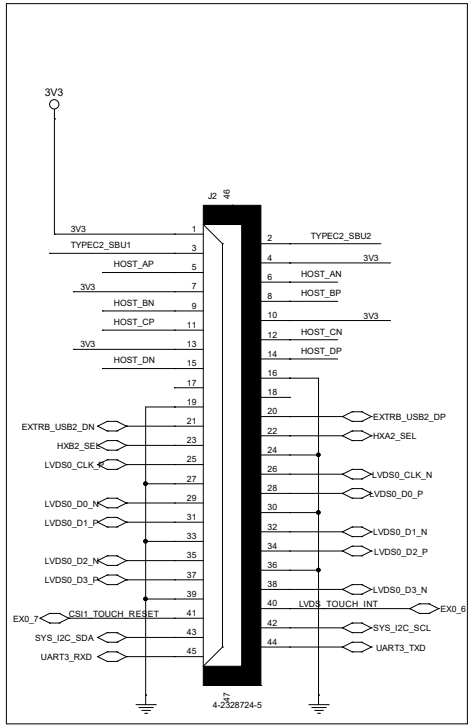
HD3SS460



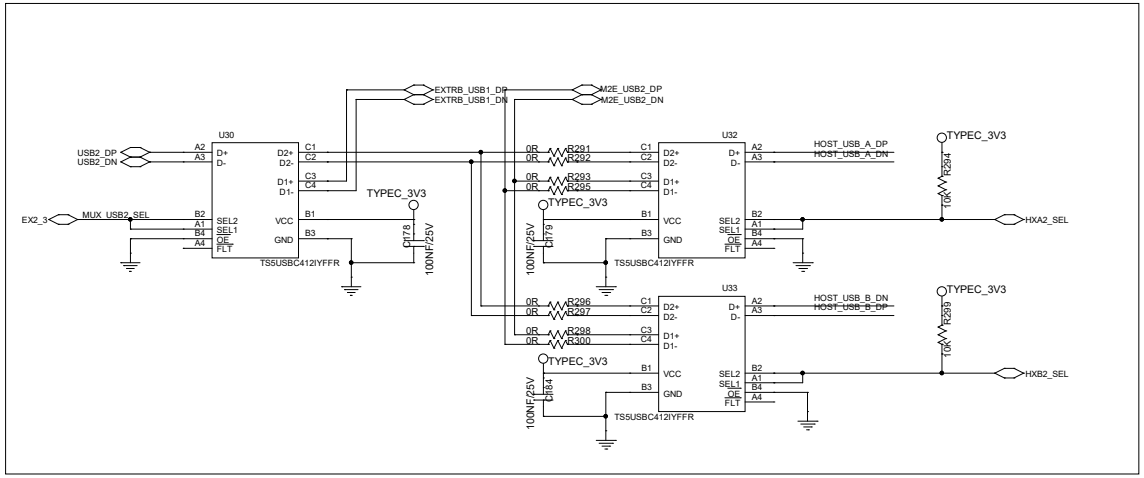
TYPE-C Host

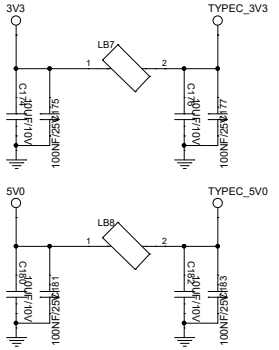


Host ALT



Host USB2.0





The type and specification of the components refer to the BOM

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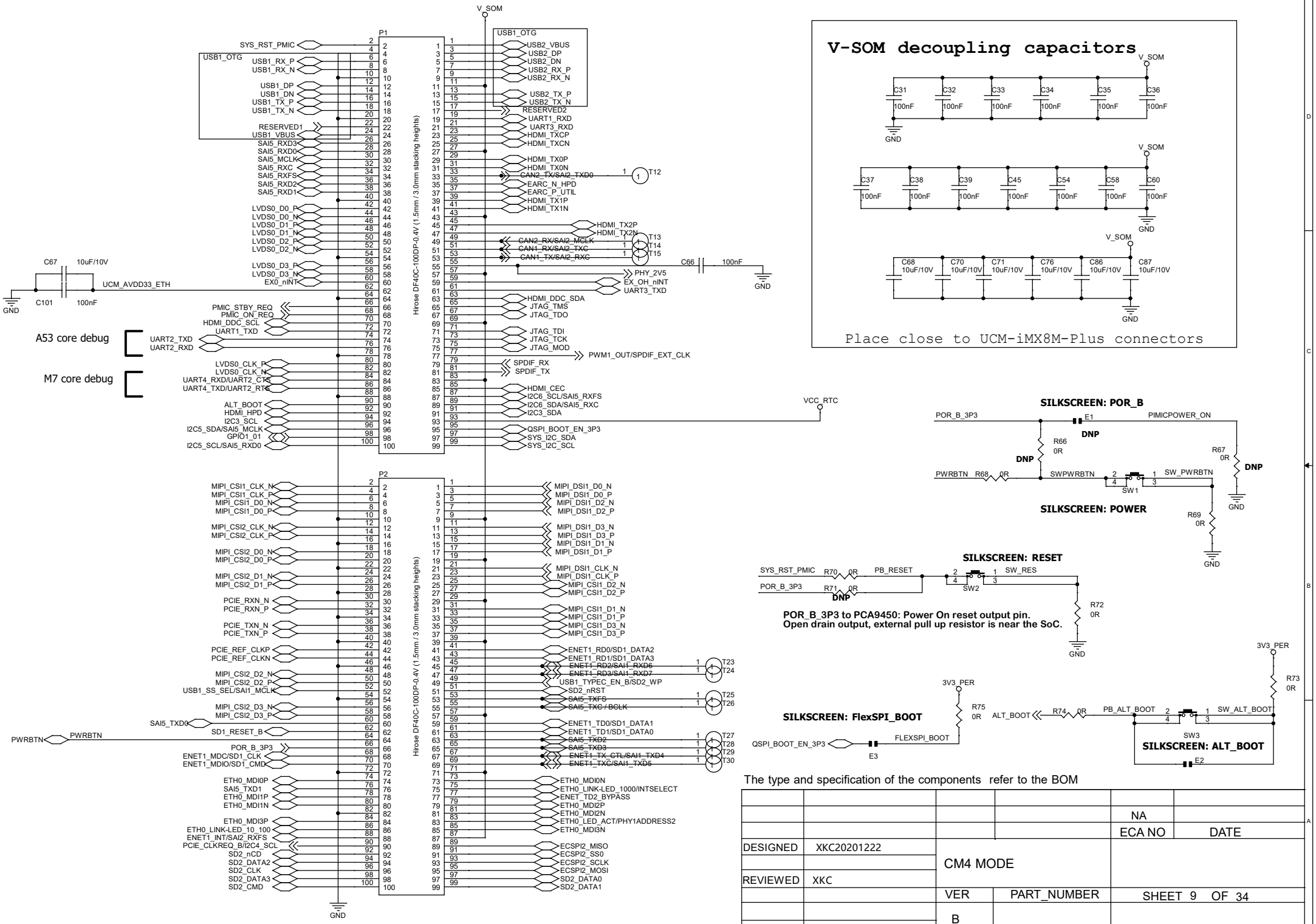
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			



The type and specification of the components refer to the BOM

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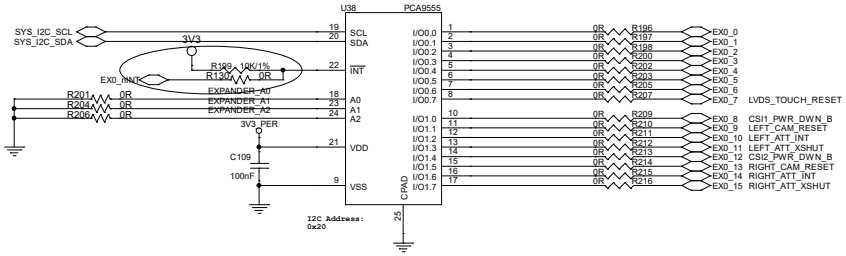
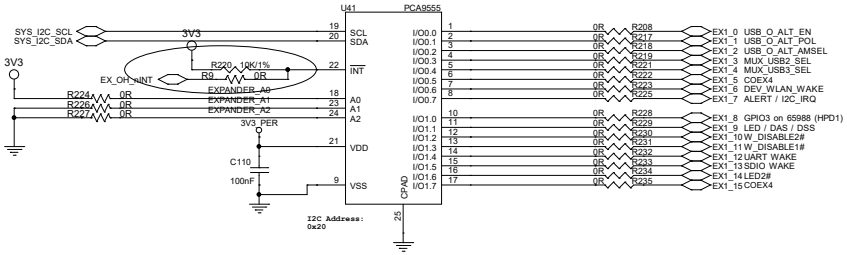
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			

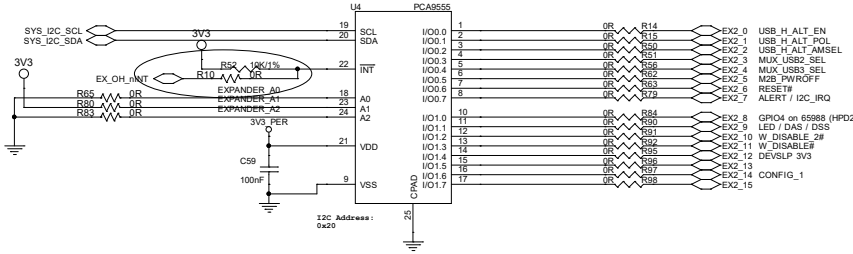
SYS_I2C to GPIO expander-EX0
Addres:0X40



SYS_I2C to GPIO expander-EX1
Addres:0X41



SYS_I2C to GPIO expander-EX2
Addres:0X42

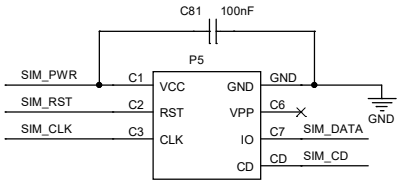


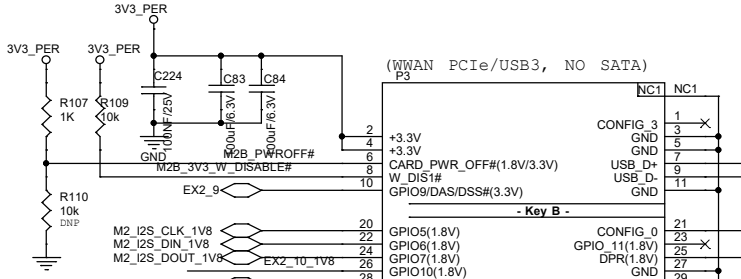
The type and specification of the components refer to the BOM

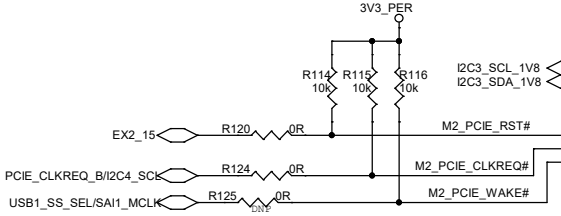
				NA	
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			

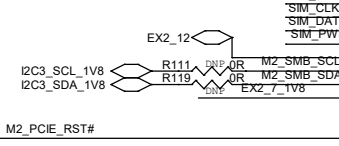
M.2 Socket - Key B

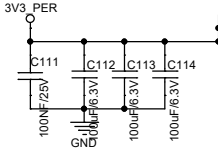
nanoSIM with detect

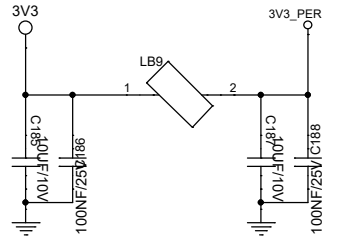


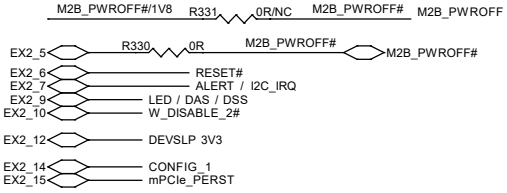


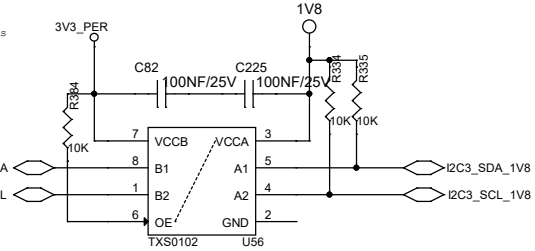


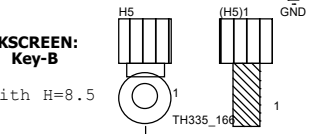






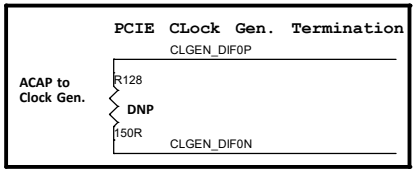




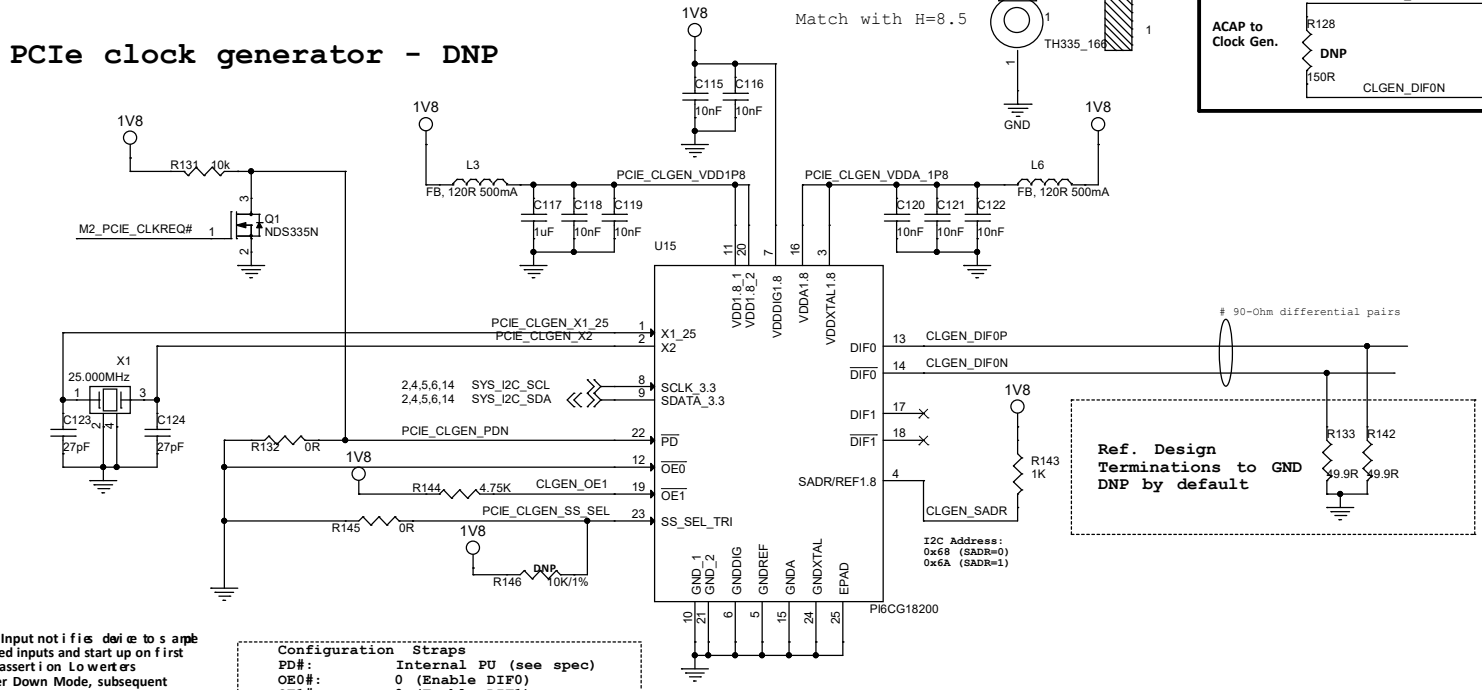


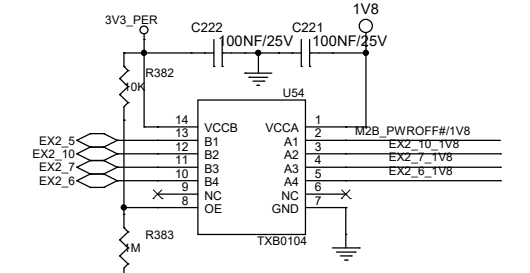
SILKSCREEN: M.2 Key-B

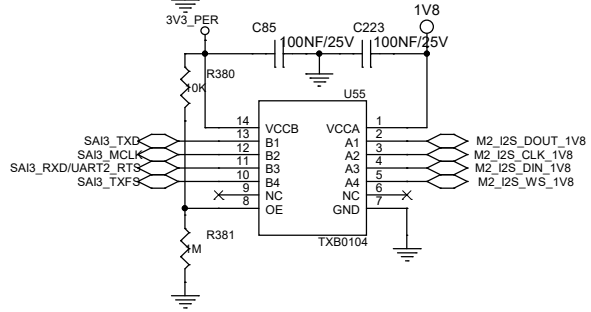
Match with H=8.5



PCIe clock generator - DNP



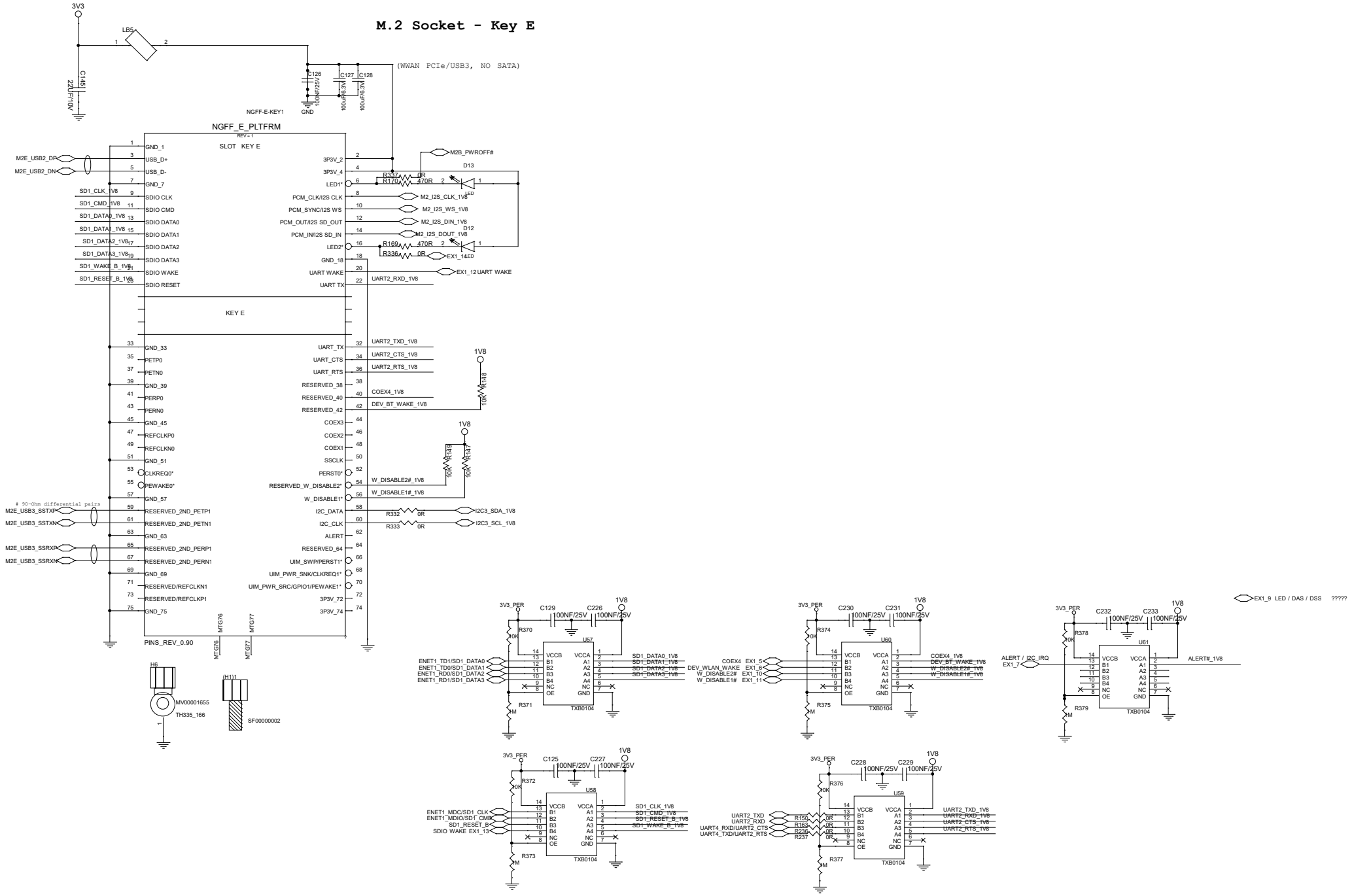




PD#: Input notifies device to sample latched inputs and start up on first high assertion Lowerters Power Down Mode, subsequent high assertions exit Power Down Mode This pin has internal pull-up resistor.

Configuration Straps	
PD#:	Internal PU (see spec)
OE0#:	0 (Enable DIF0)
OE1#:	0 (Enable DIF1)
SS_SEL_TRI:	0 (SpreadSpect off)

M.2 Socket - Key E



EX1_9 LED / DAS / DSS ?????

The type and specification of the components refer to the BOM

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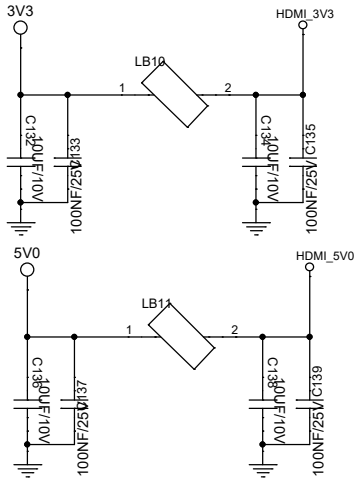
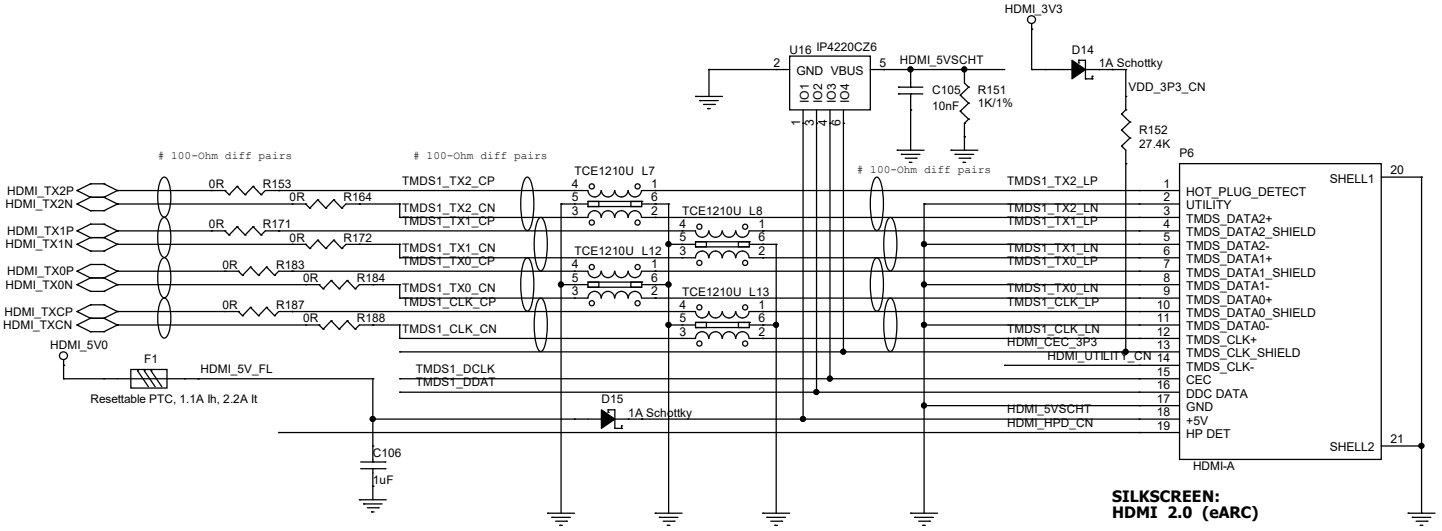
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			

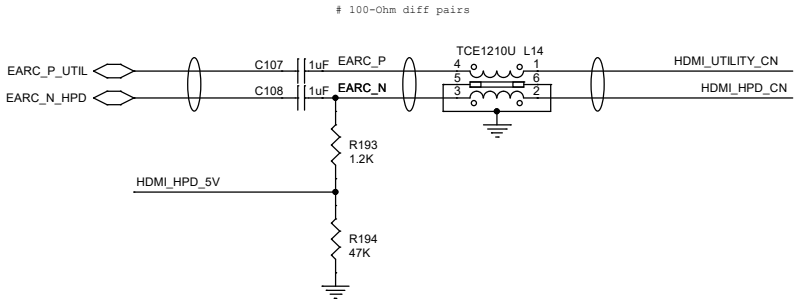
HDMI connector with eARC



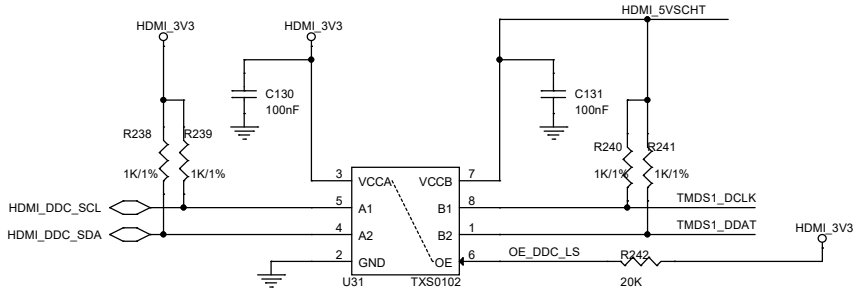


SILKSCREEN:
HDMI 2.0 (eARC)

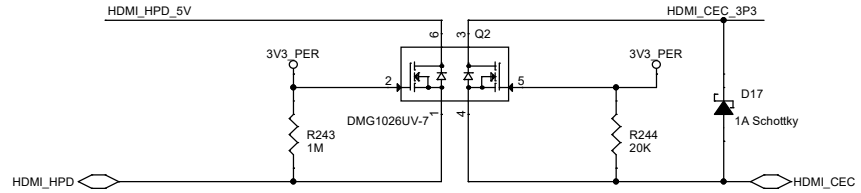
eARC ESD and HPD DC Filter



DDC Level Shifter



HPD and CEC Level Shifter



The type and specification of the components refer to the BOM

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				ECA NO	DATE
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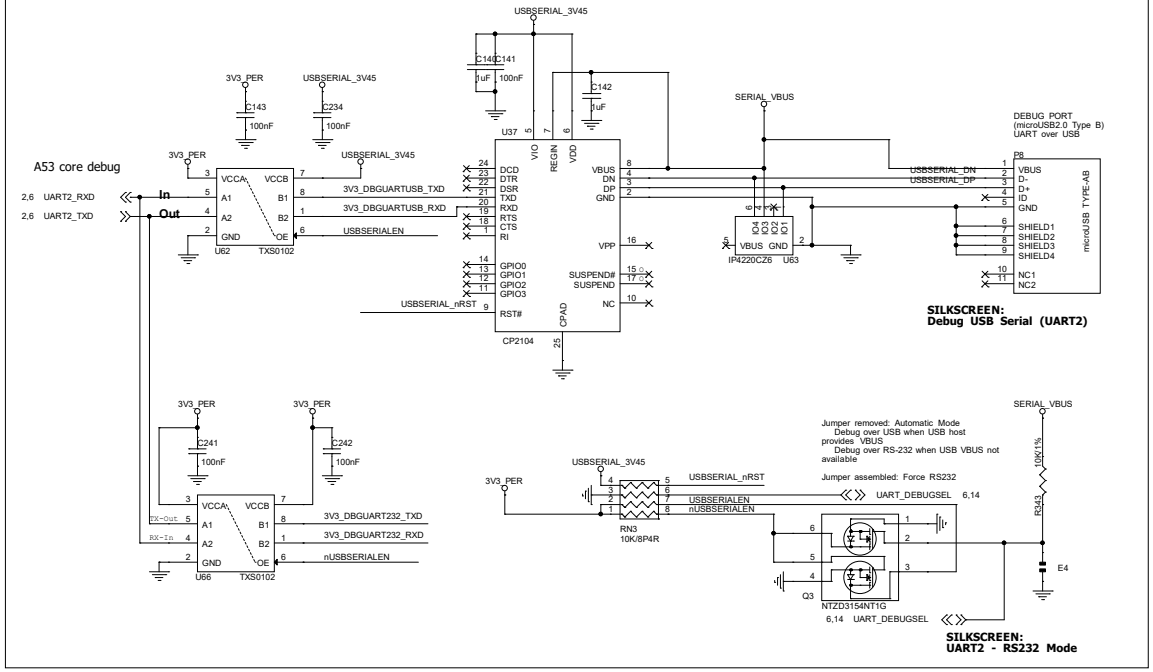
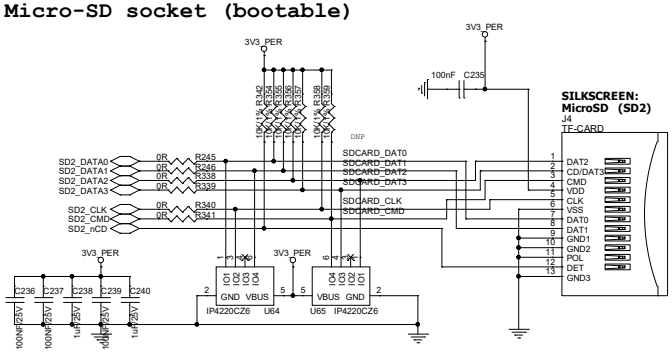
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			

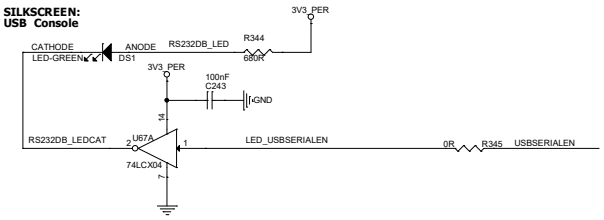
Serial debug console



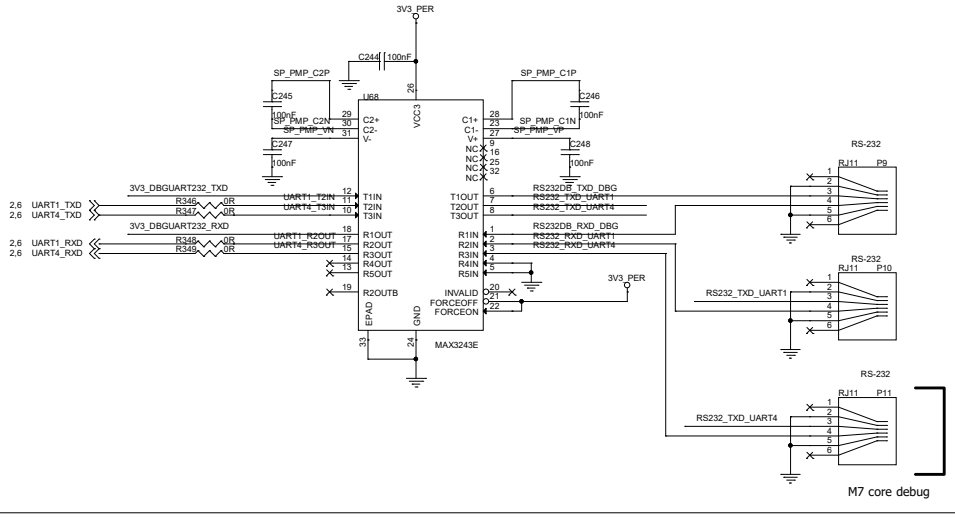
Micro-SD socket (bootable)



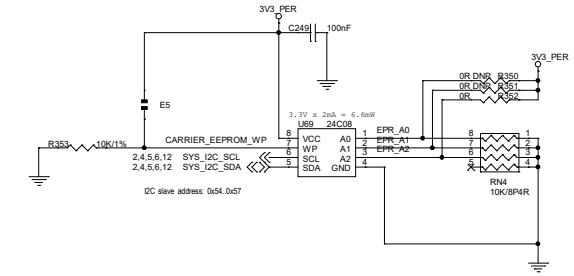
USB console connection indicator



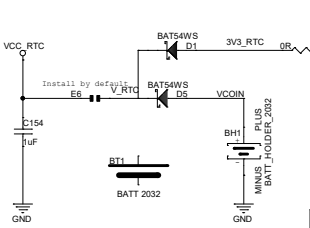
RS232



Carrier-board EEPROM



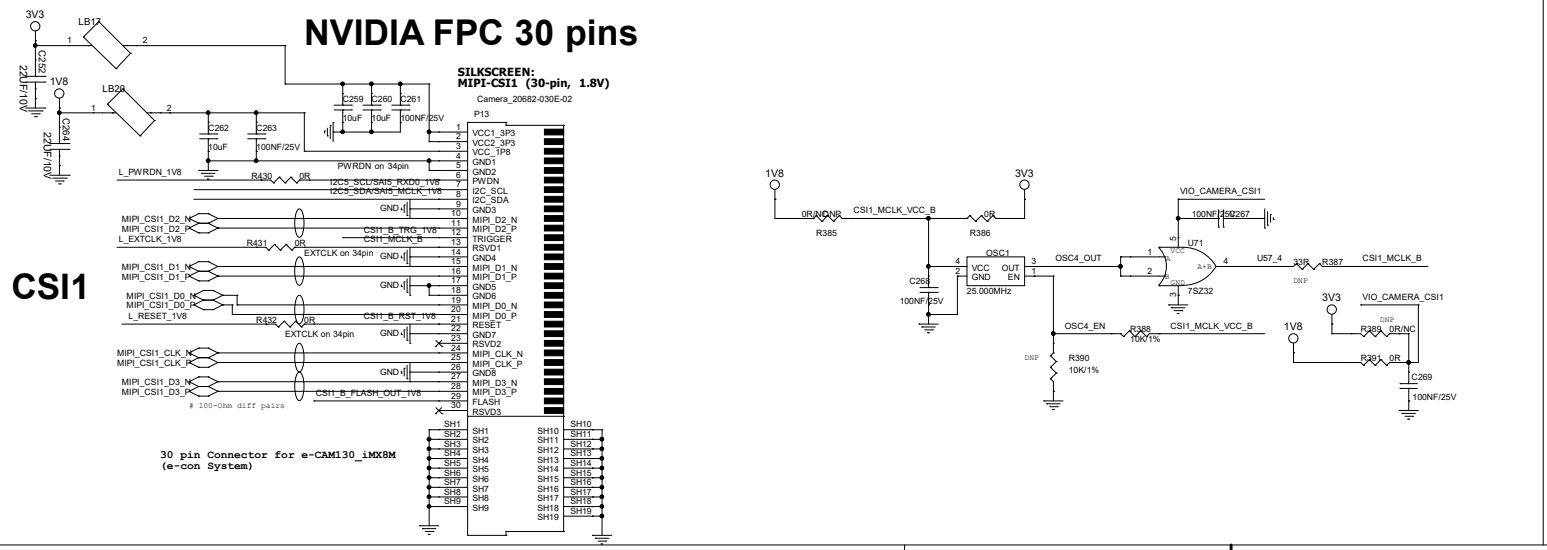
RTC battery



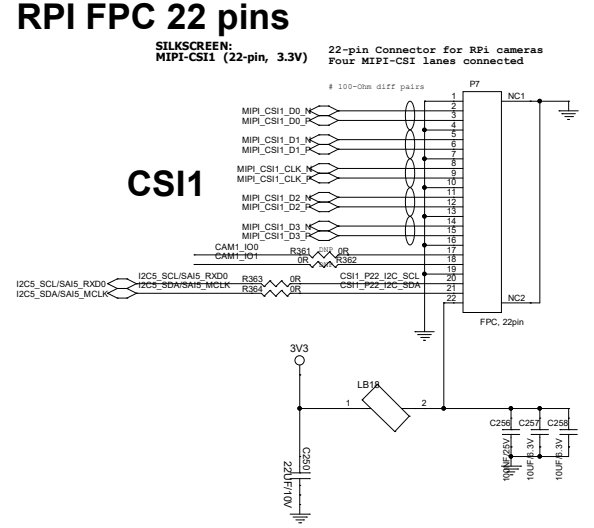
The type and specification of the components refer to the BOM

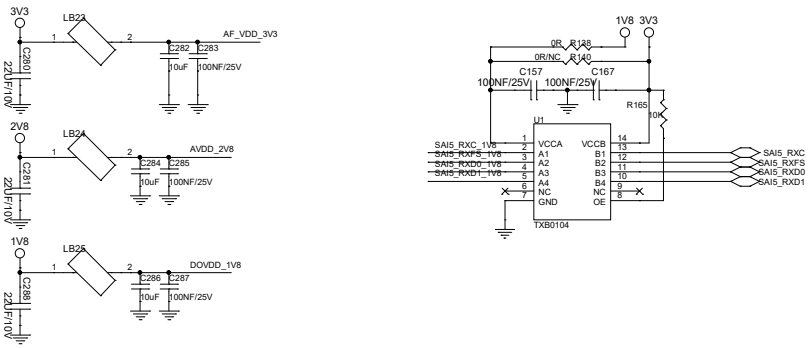
				NA	
				ECA NO	DATE
DESIGNED	XKC20201222				
			CM4 MODE		
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			

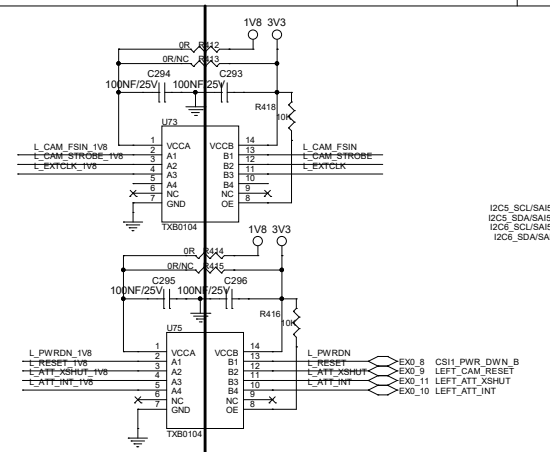
NVIDIA FPC 30 pins

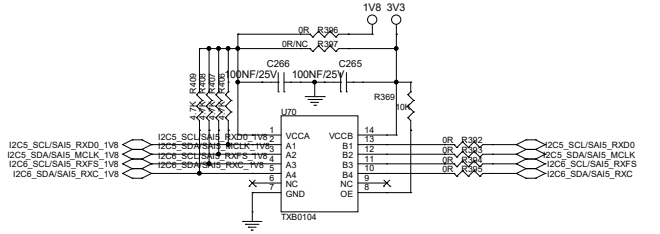


RPI FPC 22 pins

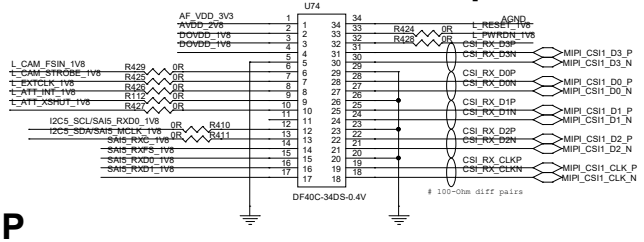




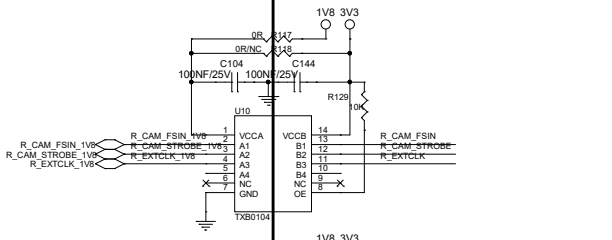


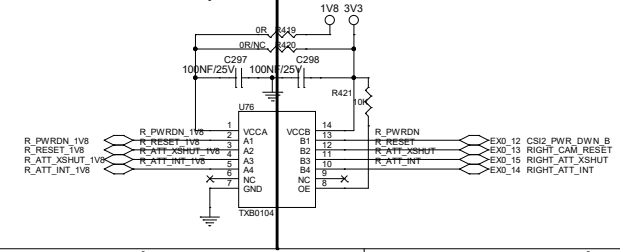


Ziloo Camera Module 34 pin connector

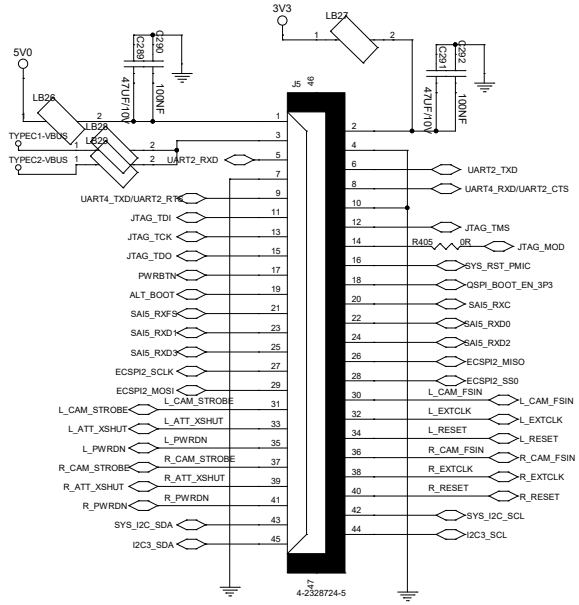


CSI1

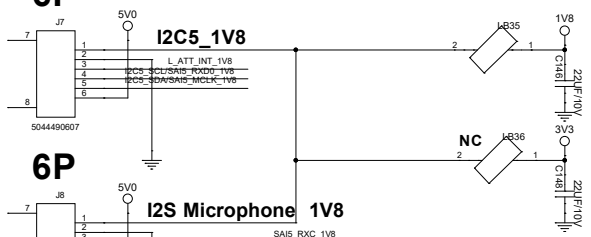




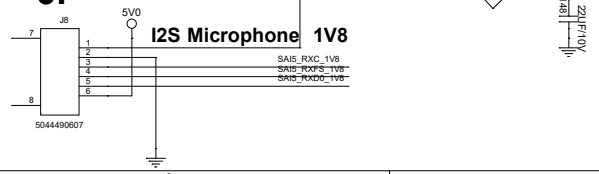
Debugging Breakout connector 45P



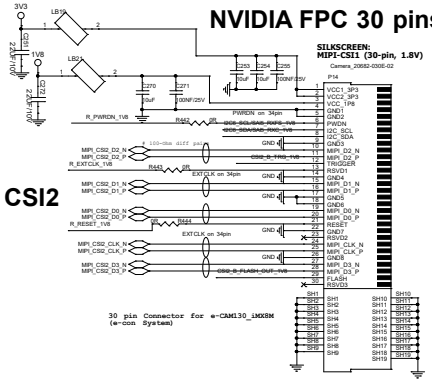
6P

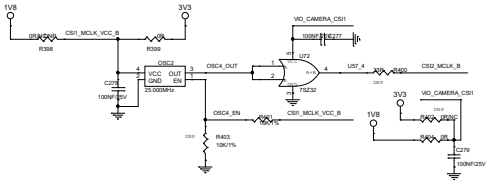


6P

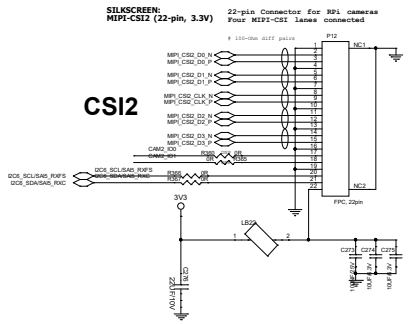


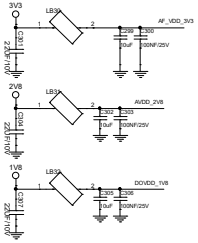
NVIDIA FPC 30 pins



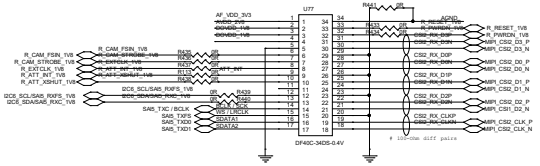


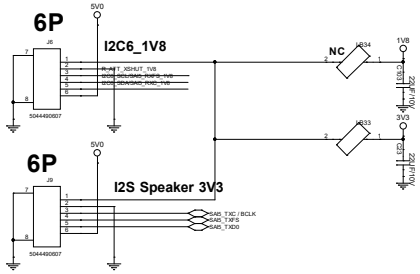
RPI FPC 22 pins





Ziloo Camera Module 34 pin connector





The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	XKC20201222	CM4 MODE			
REVIEWED	XKC				
		VER	PART_NUMBER	SHEET 9 OF 34	
		B			