

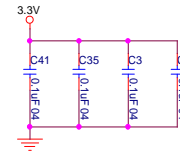
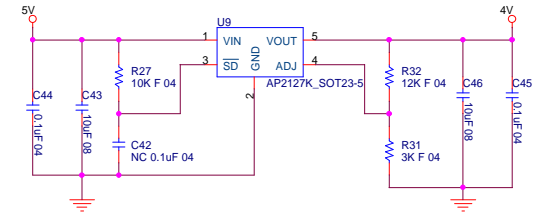
#### AP2127K\_SOT23-5

Iout min : 300mA  
 Vin : 2.5V~6V  
 Vref : 0.8V  
 Vdrop max : 0.7V  
 @1.8V/300mA  
 0.3V  
 @2.8V/300mA  
 JA : 250°C/W

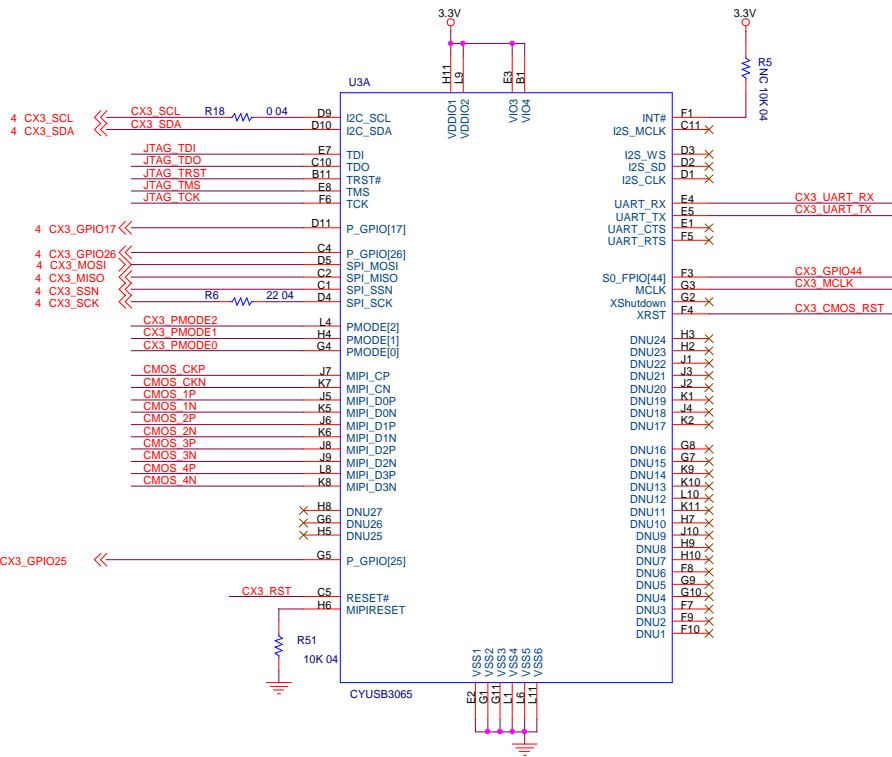
#### 5V-->+4V LDO

Drop Voltage=5V-4V=1.5V >Spec 0.3V

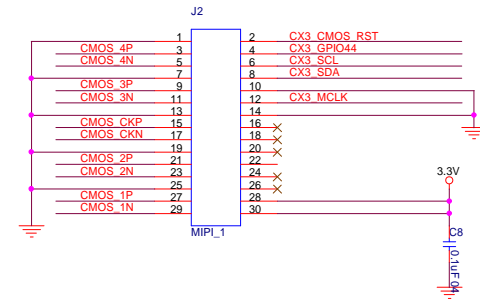
$$V_{out} = 0.8(1 + (R_{up} / R_{down})) = 0.8(1 + (12/3)) = 4V$$



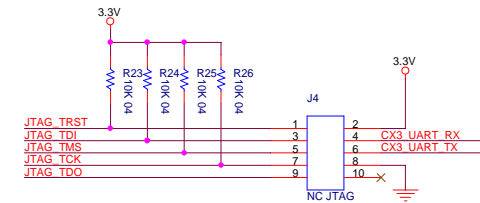
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	CX3		
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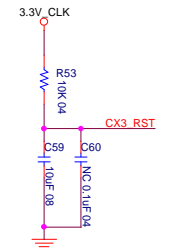
## CX3 -->CMOS



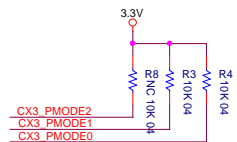
## CX3 JTAG\_UART



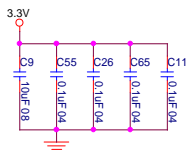
## CX3 Reset



## CX3 Boot option

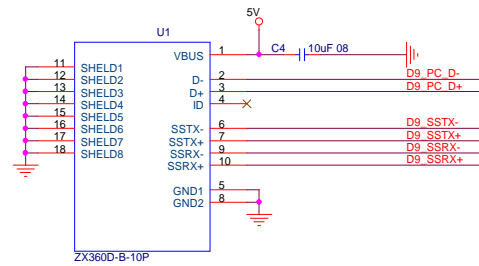


PMODE2	PMODE1	PMODE0	
0	1	1	USB
1	0	1	SPI Flash



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## USB3.0 Connector



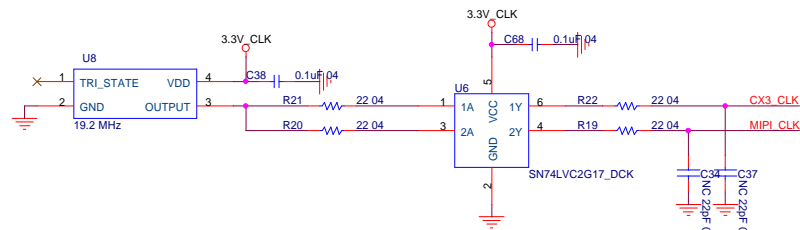
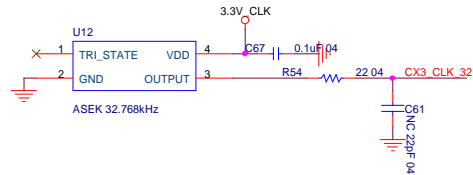
### USB 3.0 Micro-B



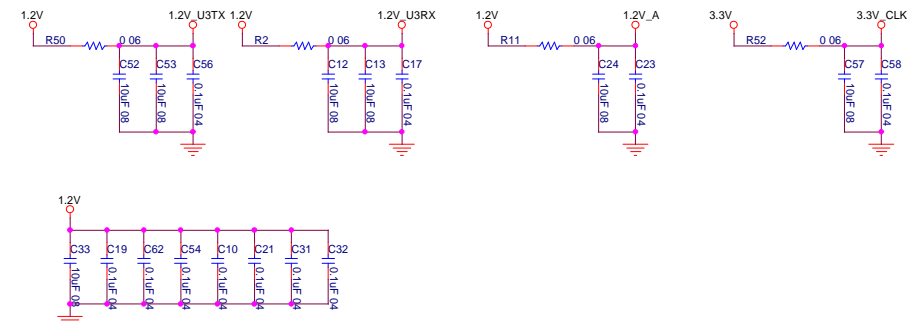
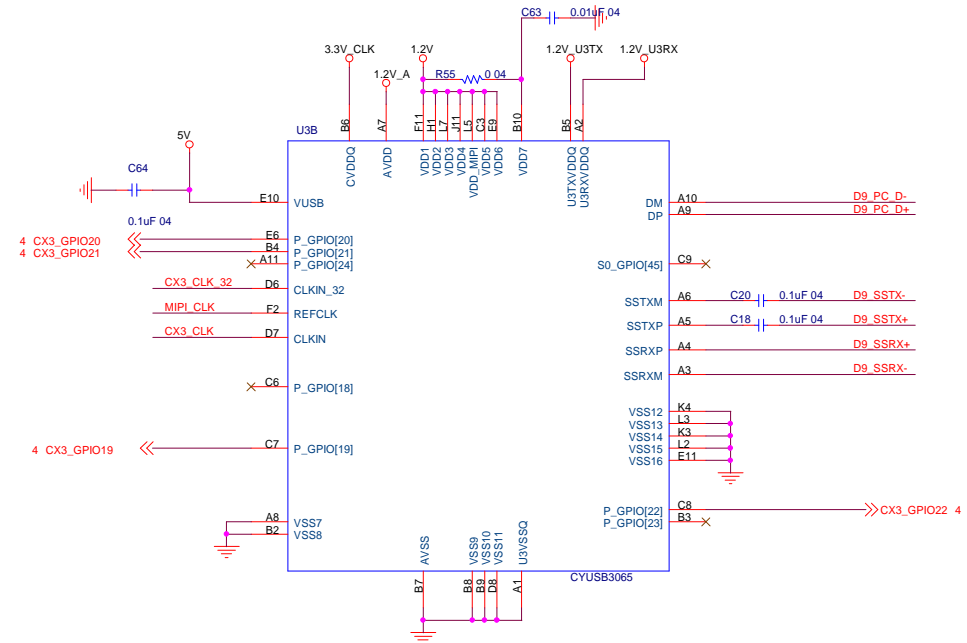
Mating face of USB 3.0  
type A female

PIN	SIGNAL	PIN	SIGNAL
1	VBUS	6	MicB_SSTX-
2	-Data	7	MicB_SSTX+
3	+Data	8	GND_DRAIN
4	ID	9	MicB_SSRX-
5	GND	10	MicB_SSRX+

## OSC

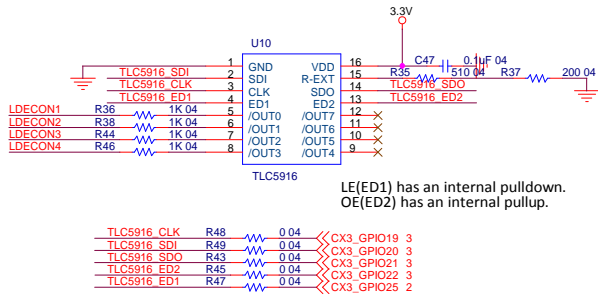


## CX3 USB Interface

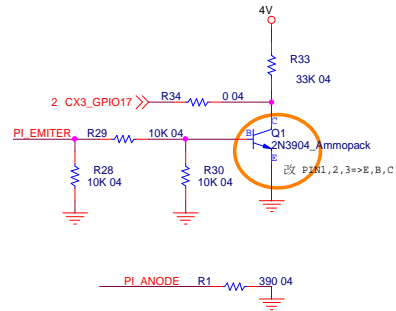
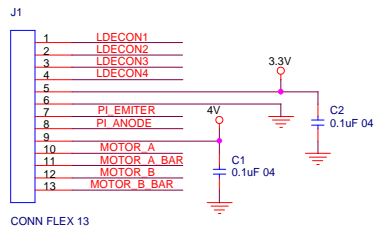
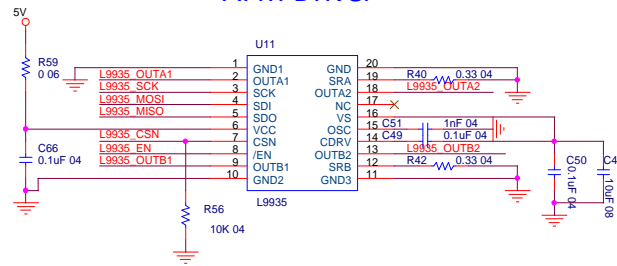
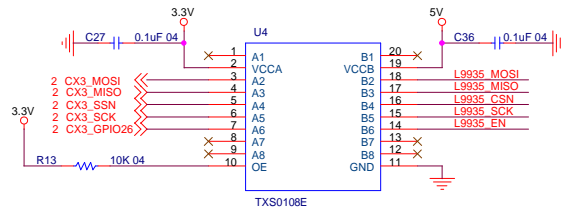


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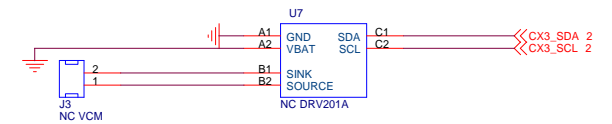
## LED Driver



## AFM Driver



## NC Motor Lens Driver



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