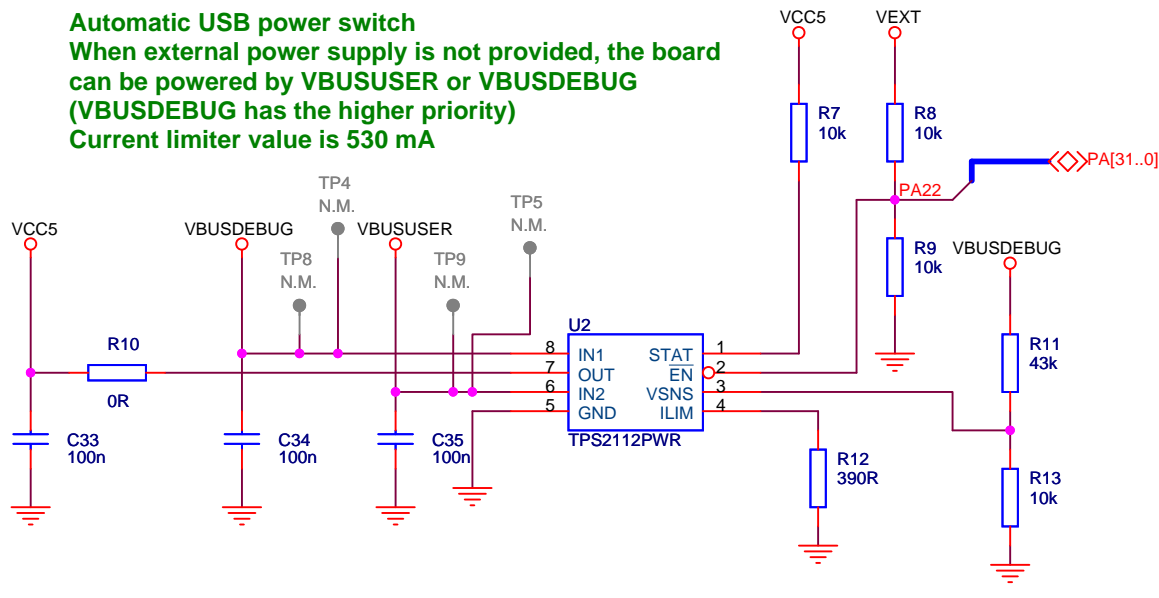


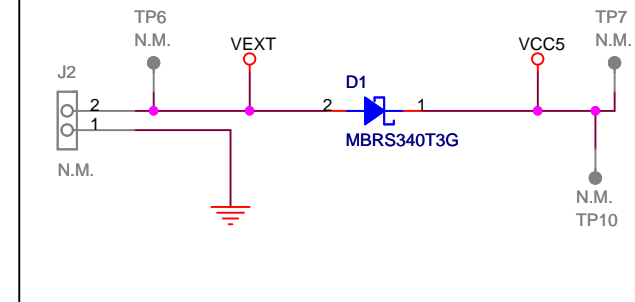
Production			
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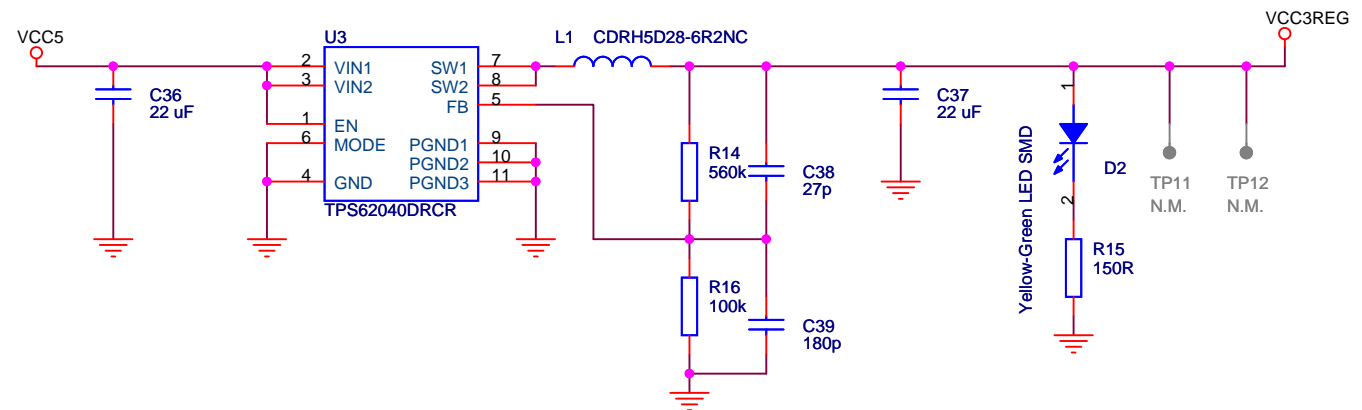
Automatic USB power switch
 When external power supply is not provided, the board can be powered by VBUSUSER or VBUSDEBUG (VBUSDEBUG has the higher priority)
 Current limiter value is 530 mA



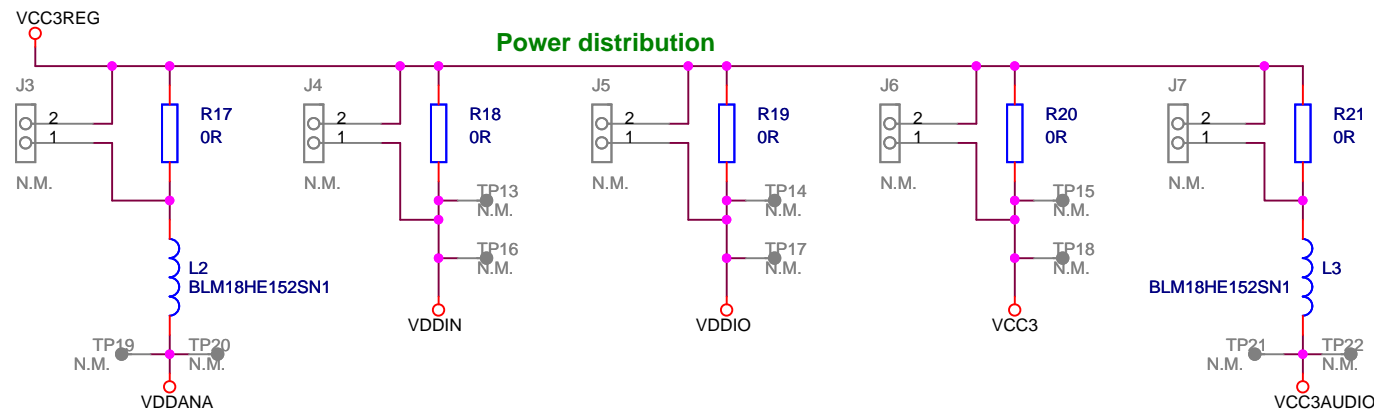
External Power Supply (DC +5V +/- 10%)
 If applied, automatic USB power switch is disabled



5V to 3,3V 1.2 A buck converter.
 $VCC3REG = 0.5 * (1 + 560k/100k) = 3,3V$
 All on-board components are powered by 3,3V
 (Only LCD back light is powered by VCC5)



Power distribution

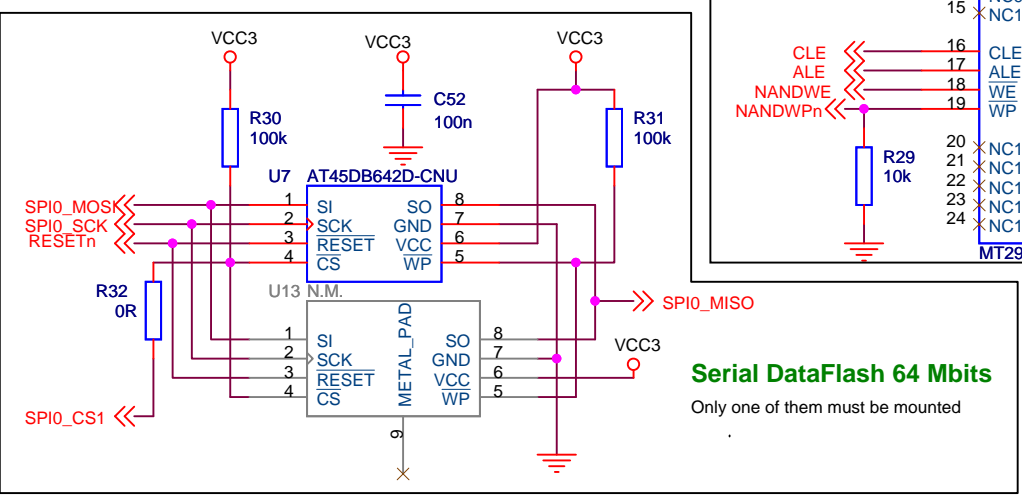
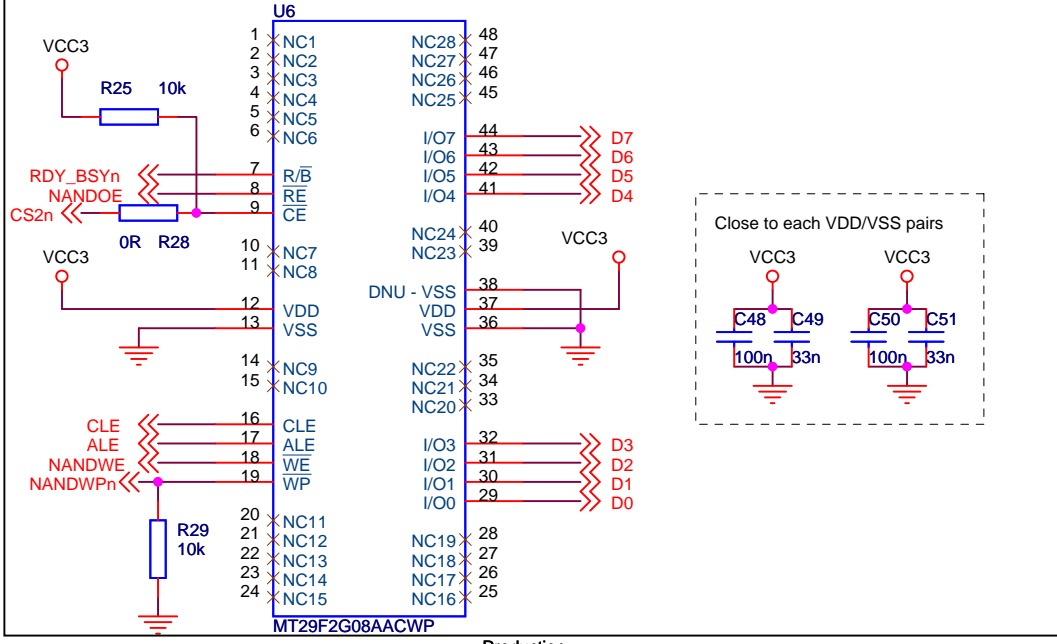
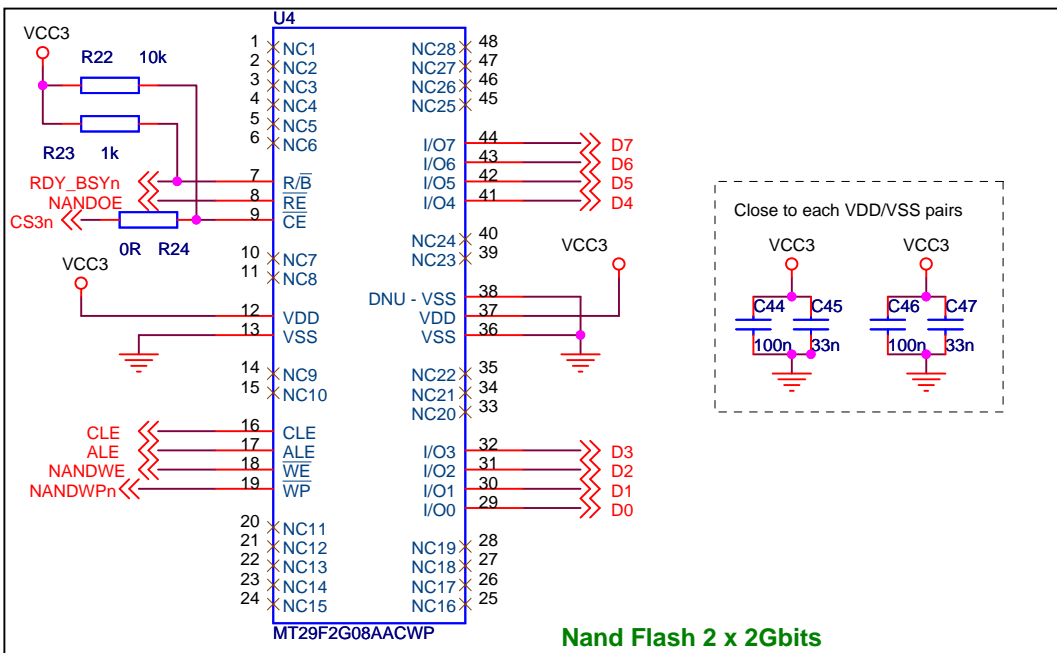
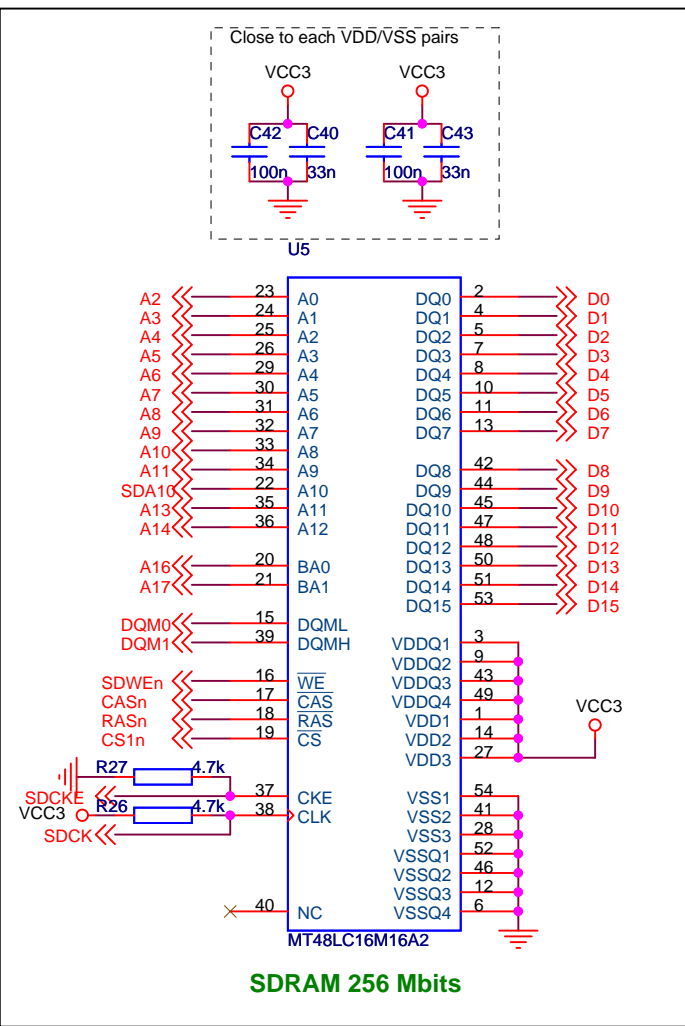
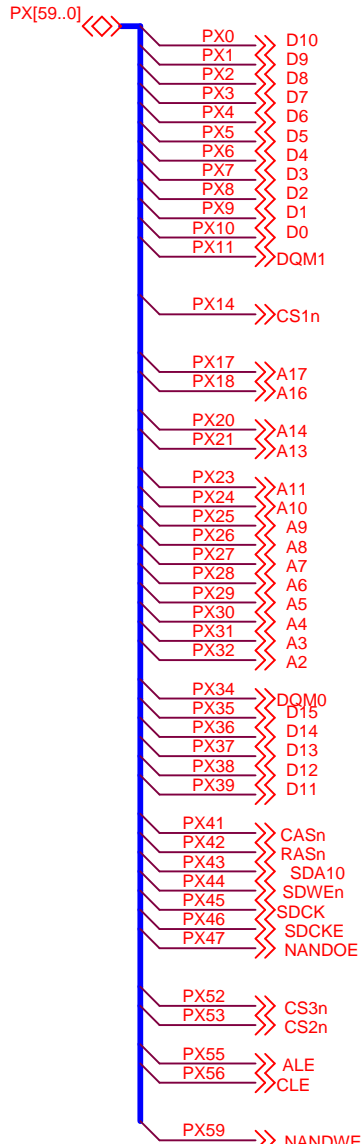


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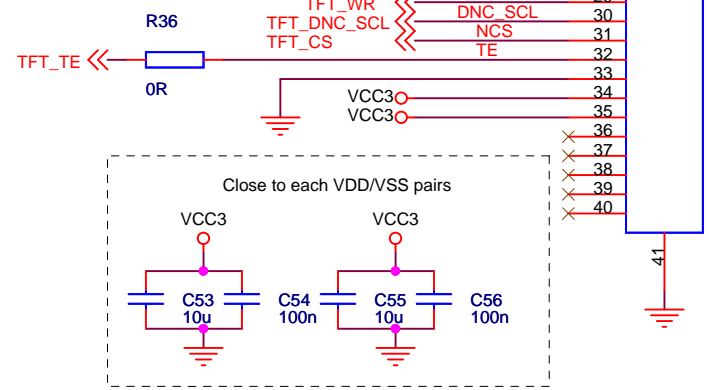
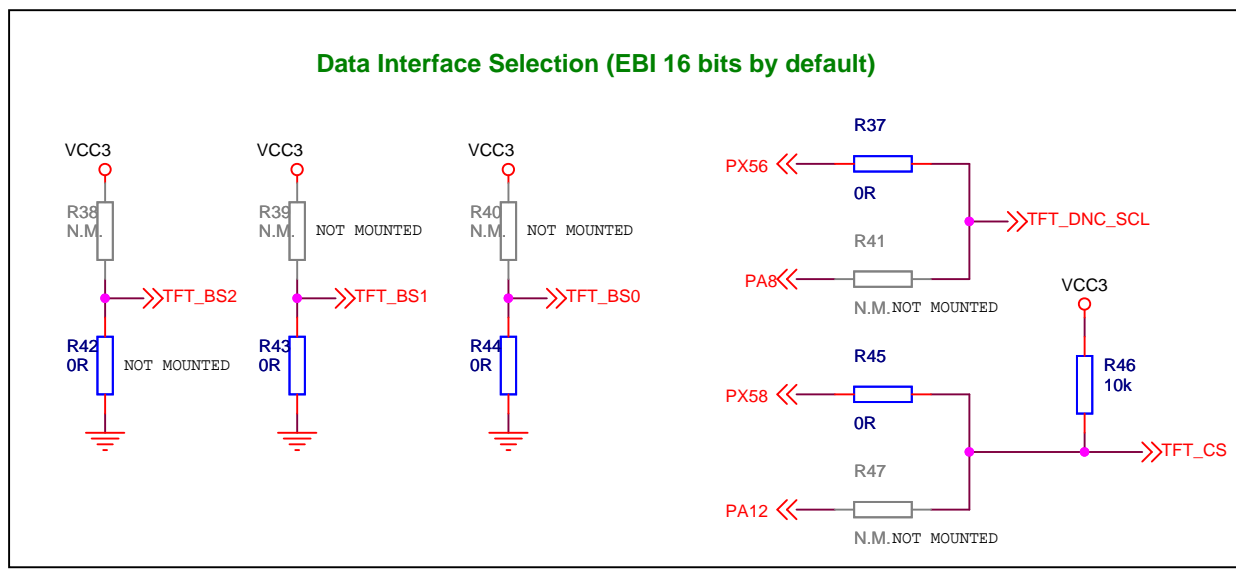
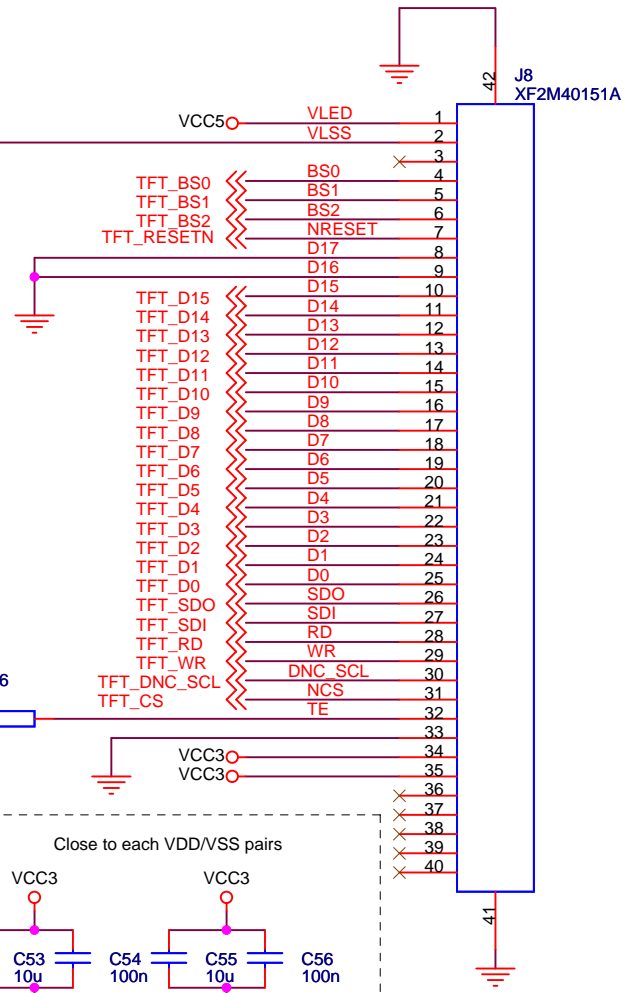
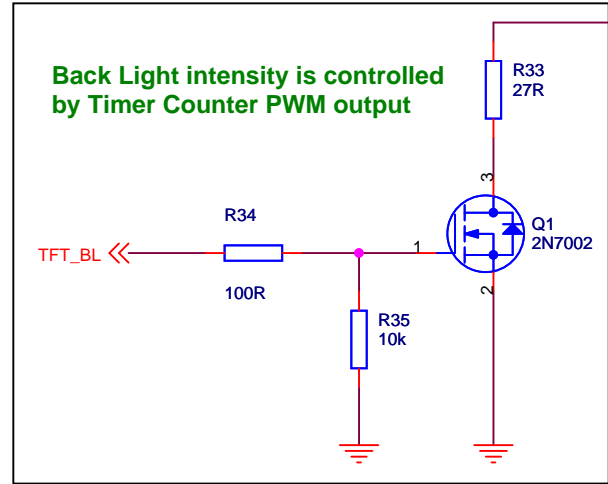
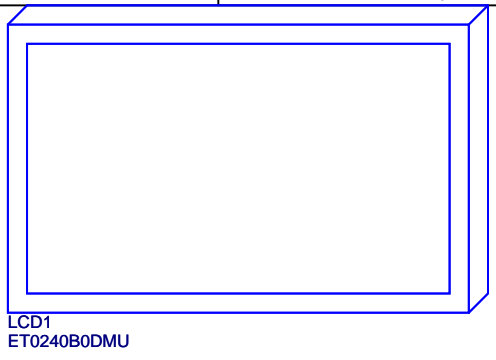
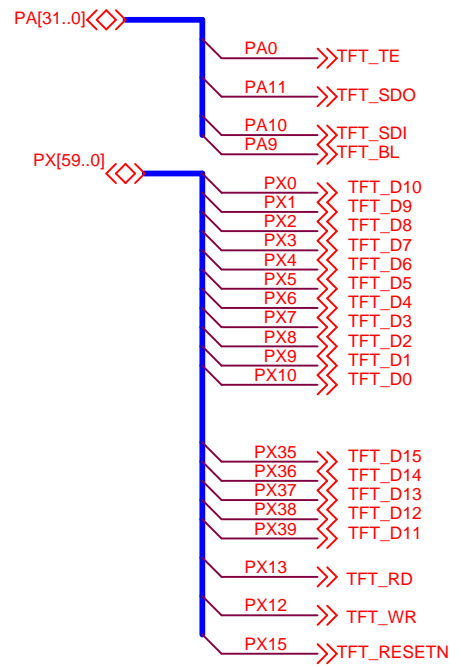


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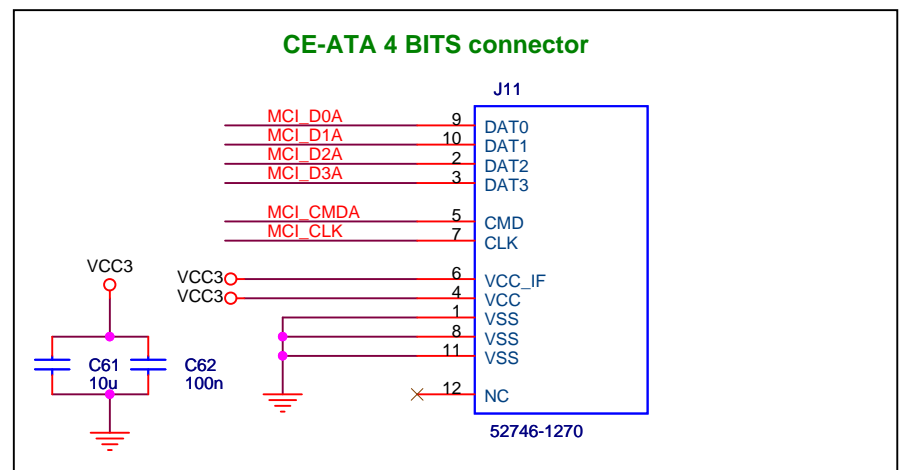
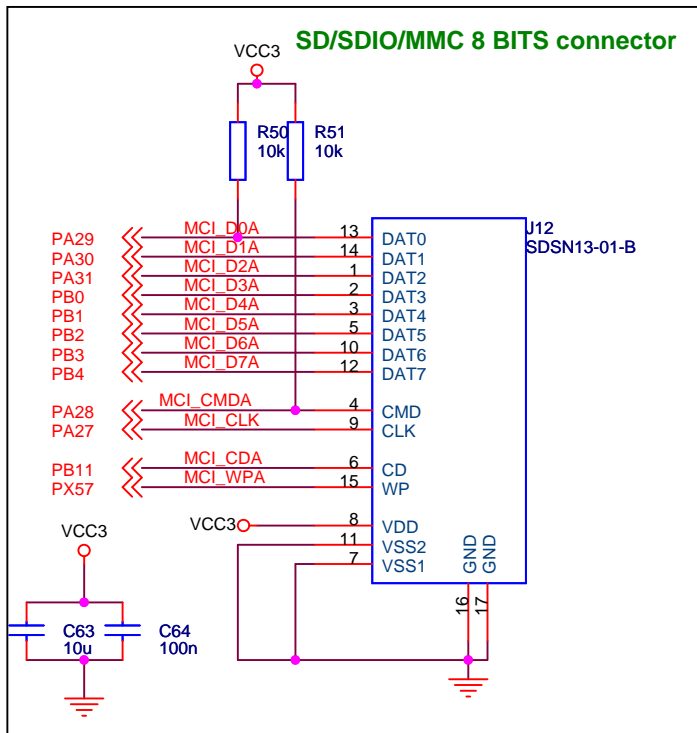
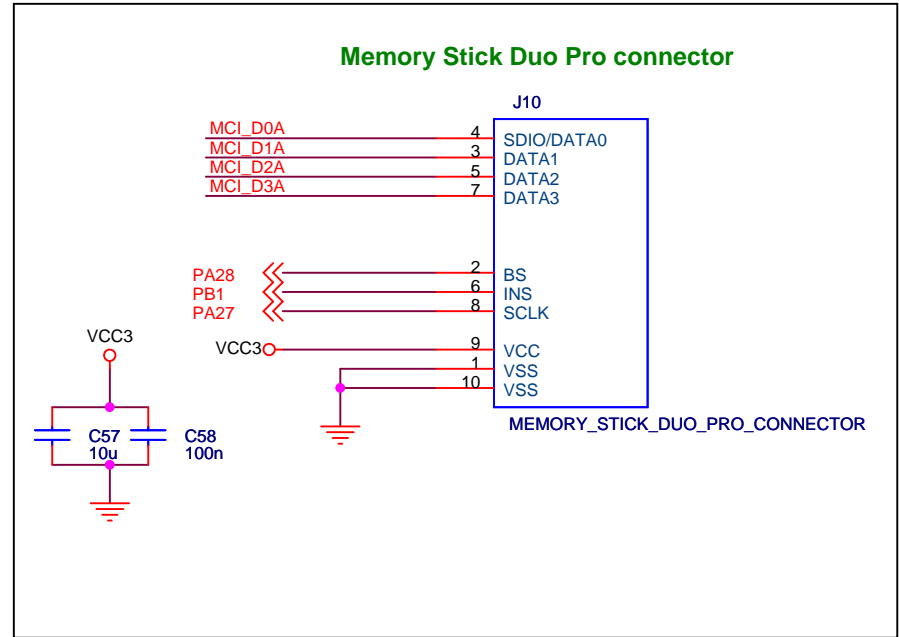
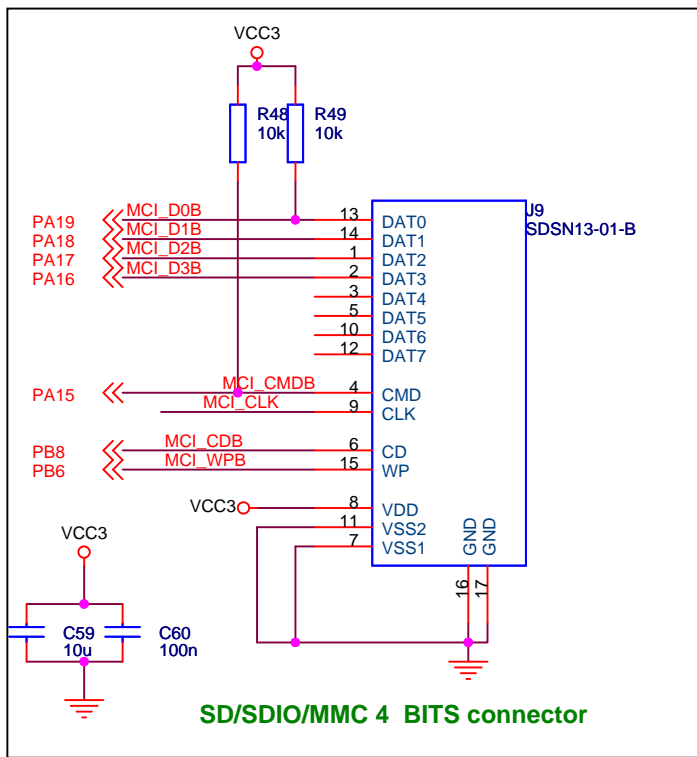
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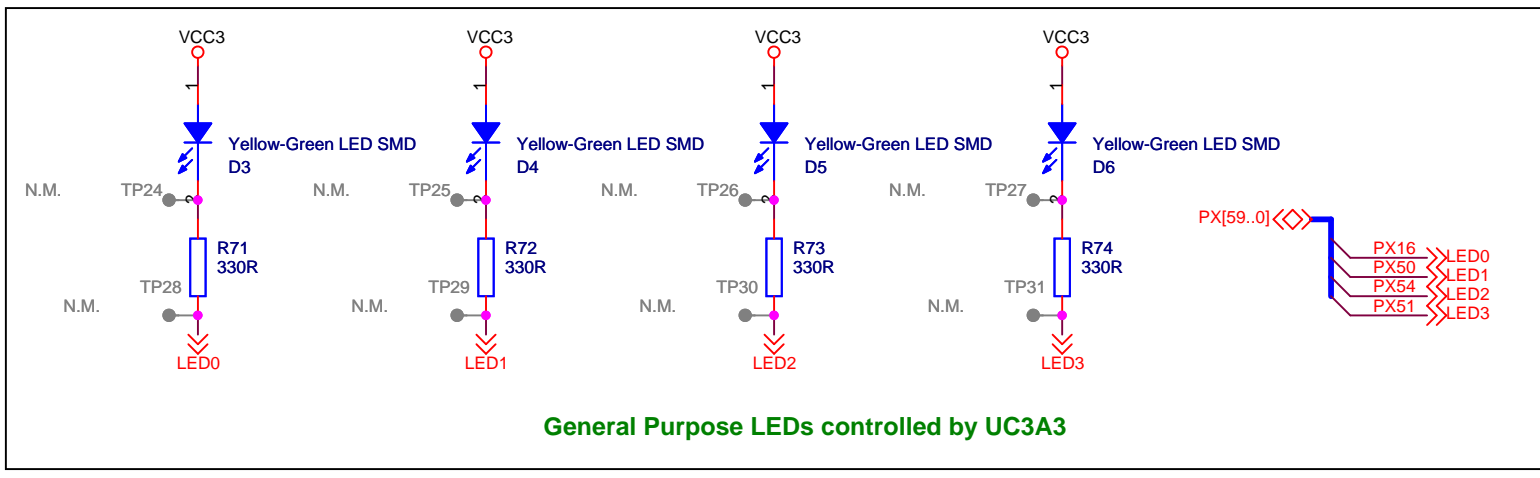
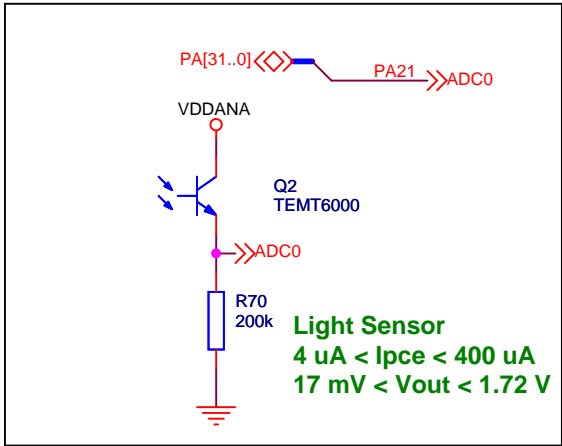
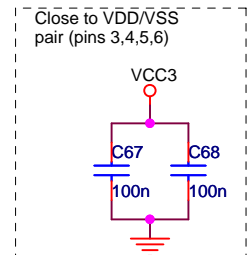
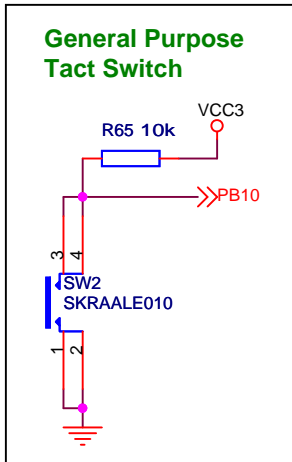
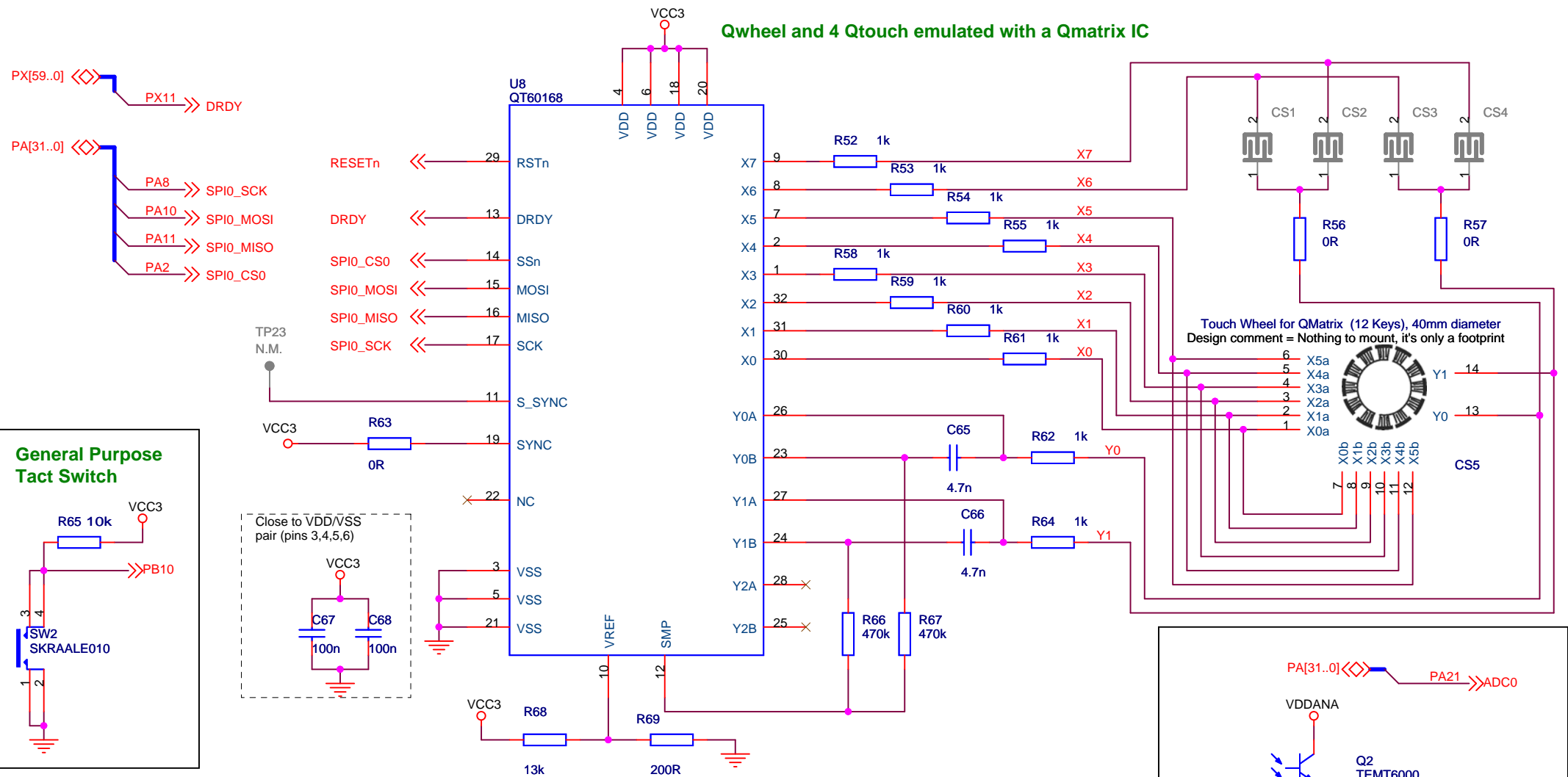
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Qwheel and 4 Qtouch emulated with a Qmatrix IC

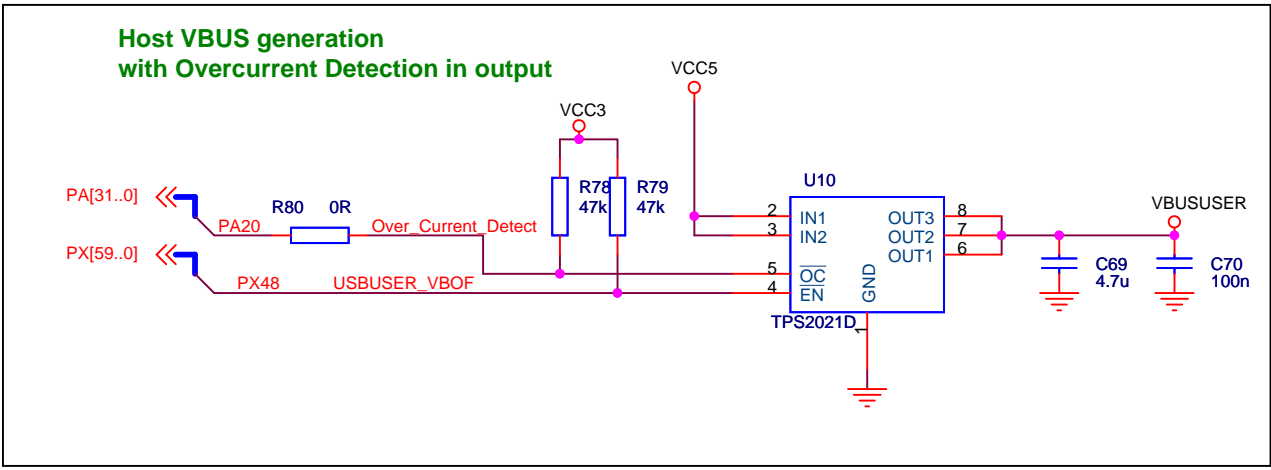
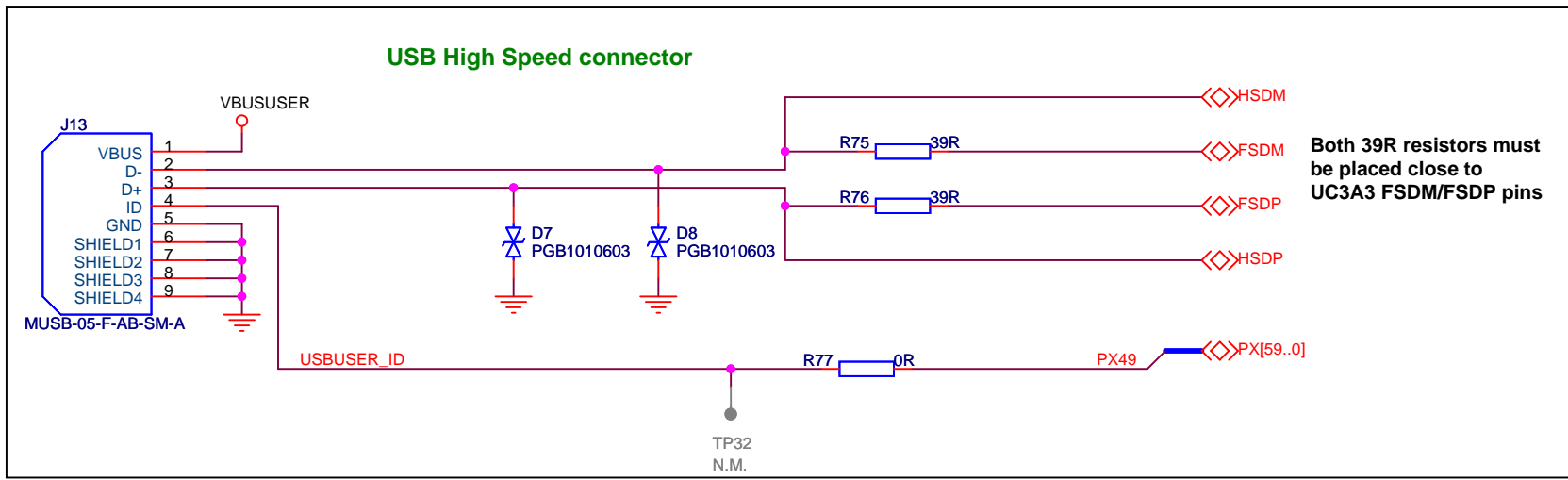


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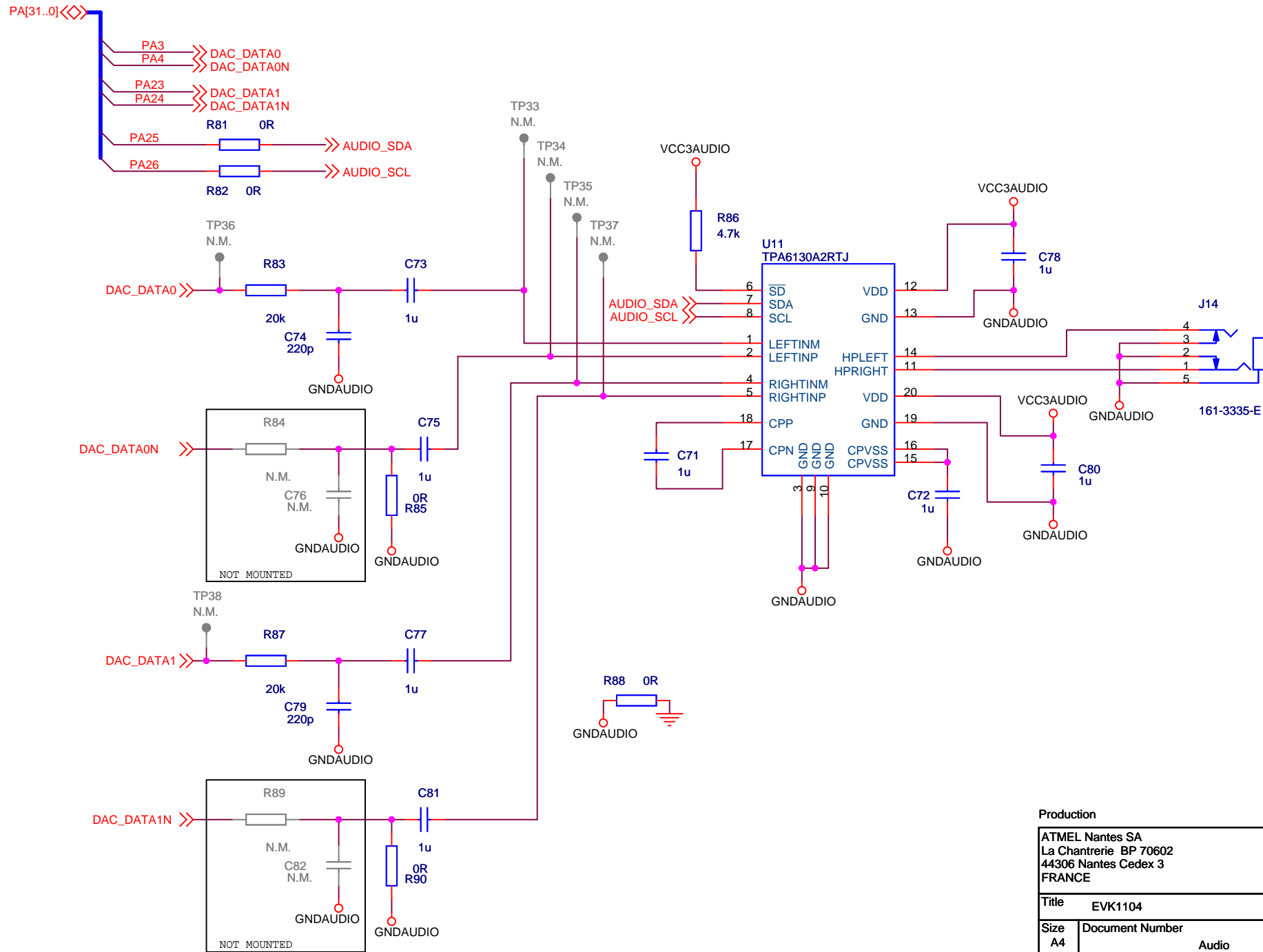
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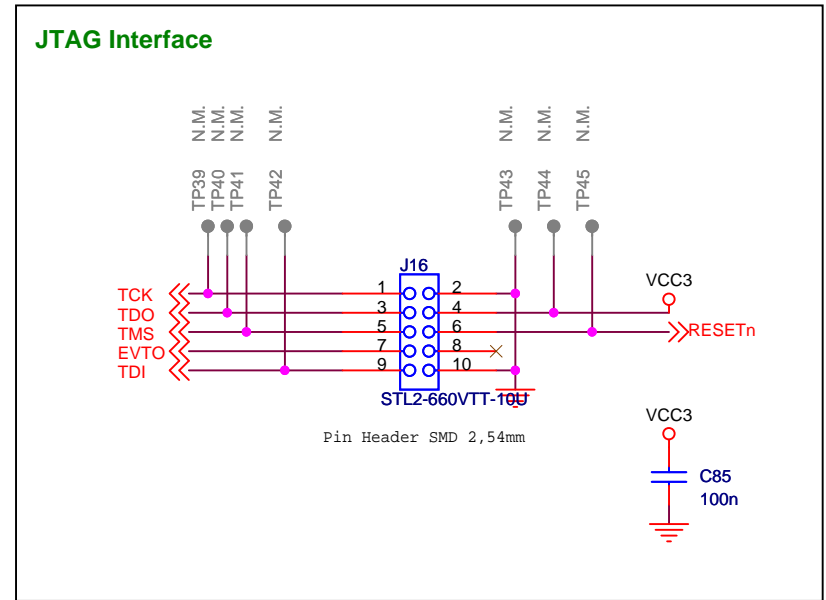
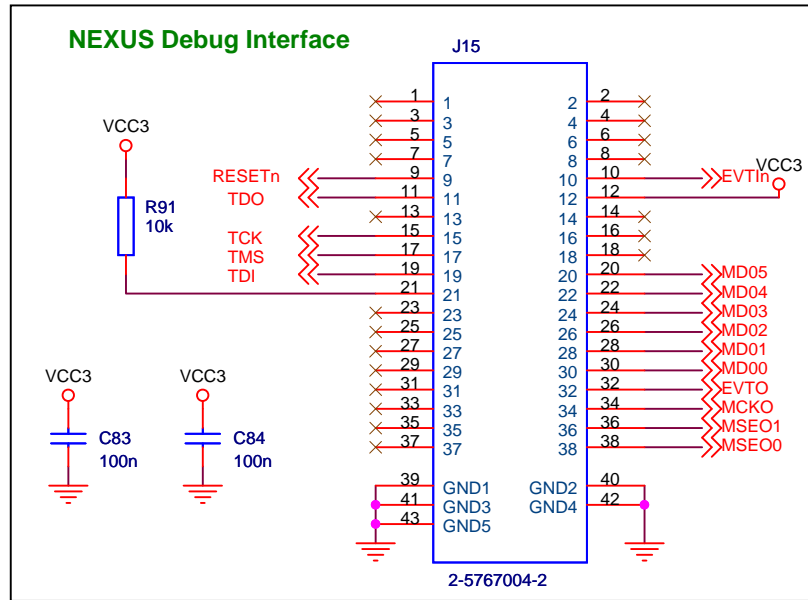
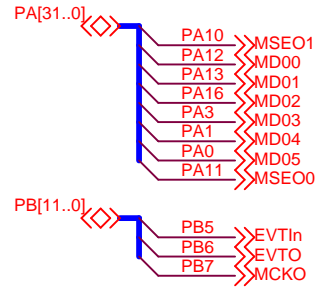


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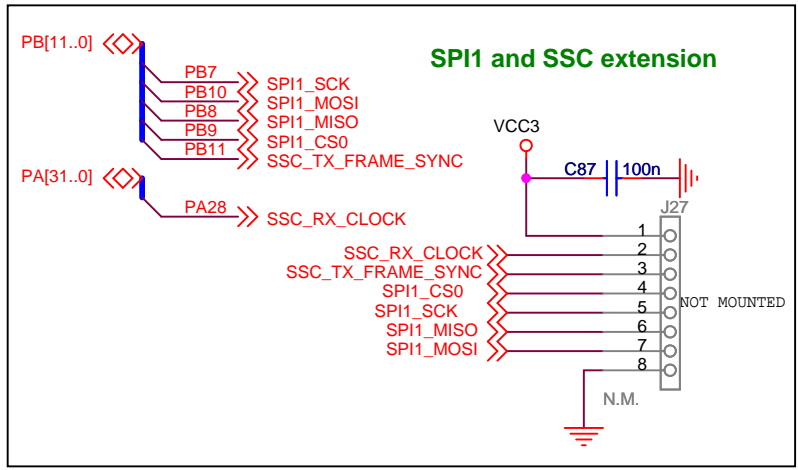
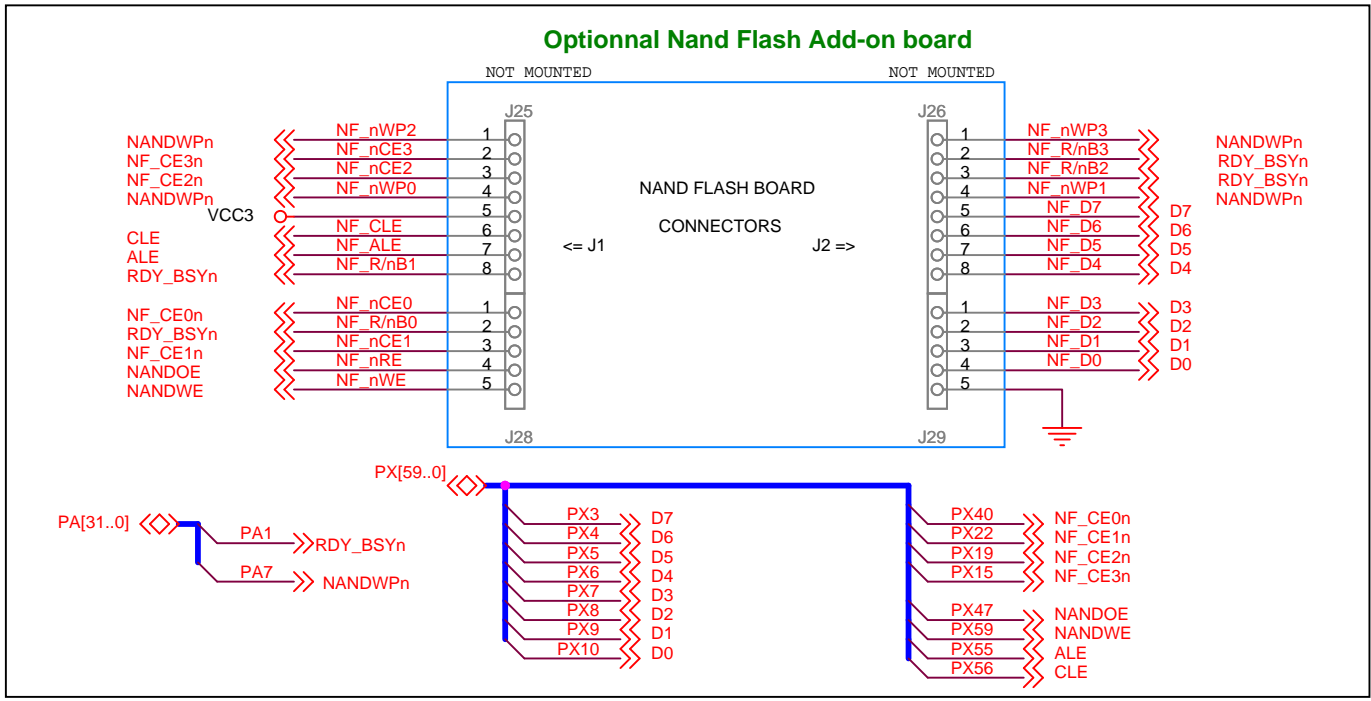
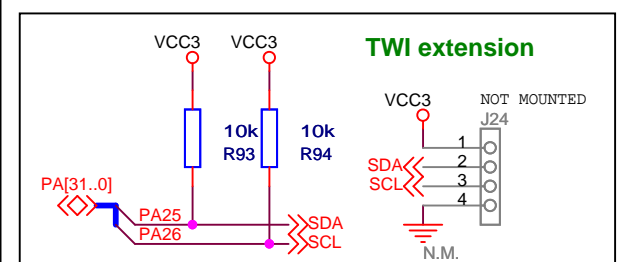
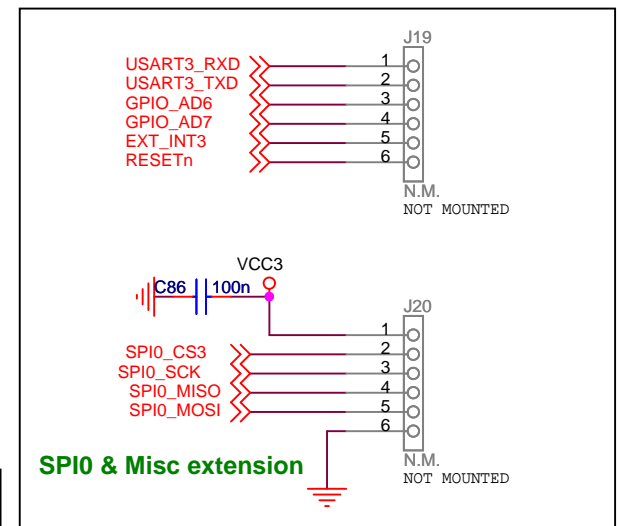
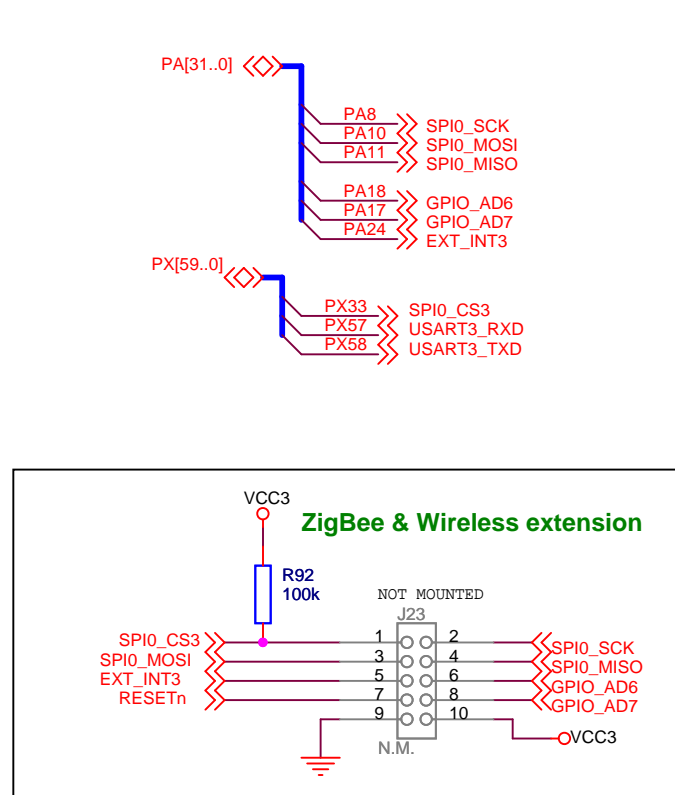
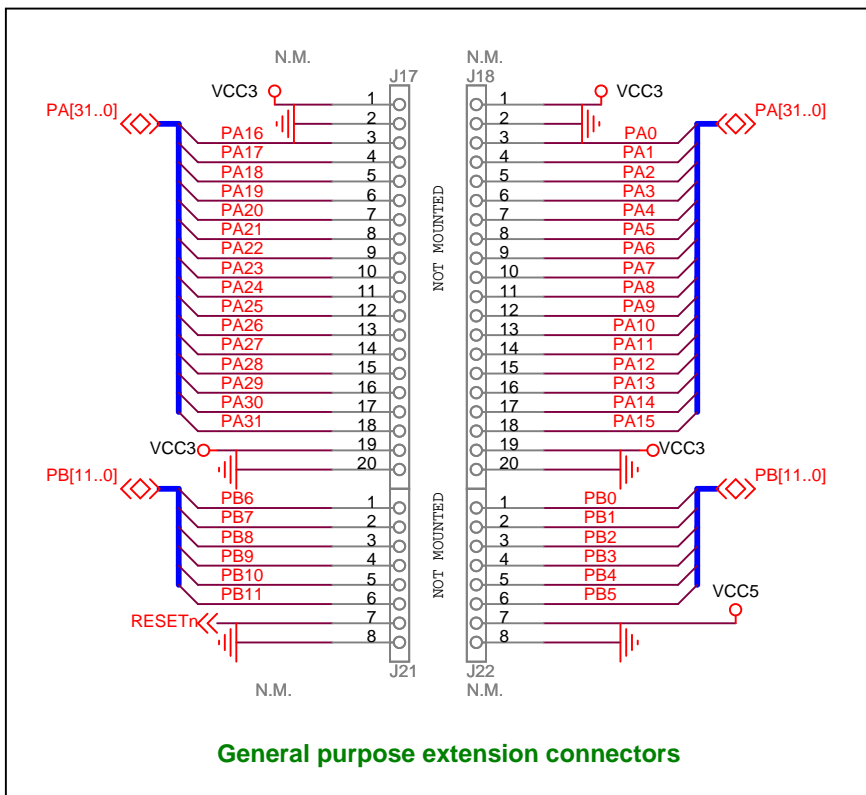


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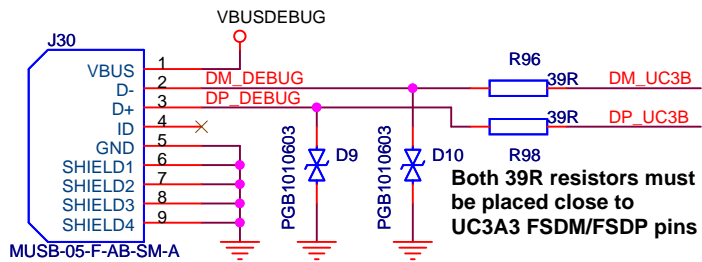


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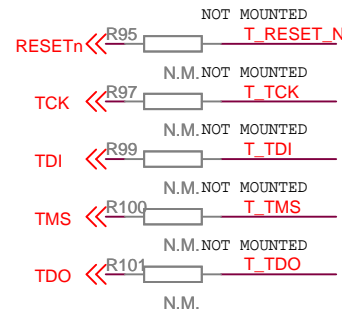
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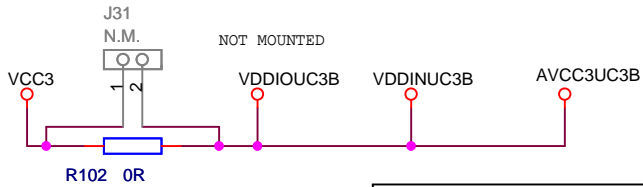
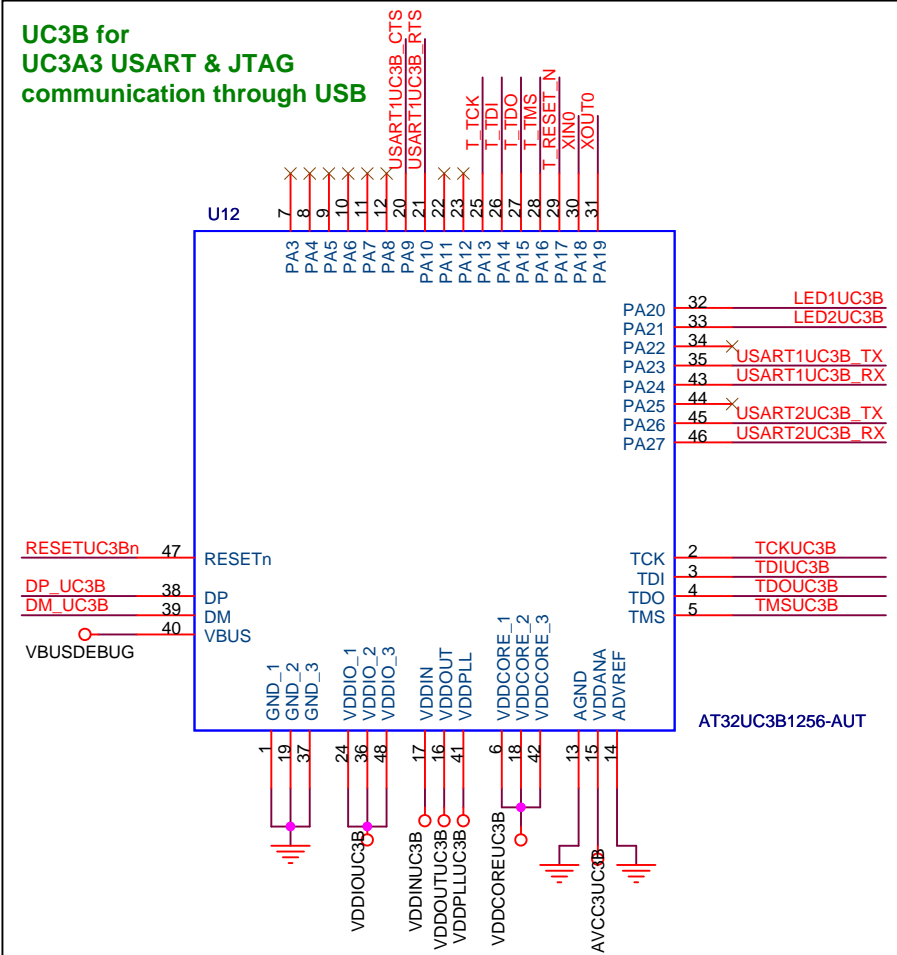
USB Virtual Com Port Connector



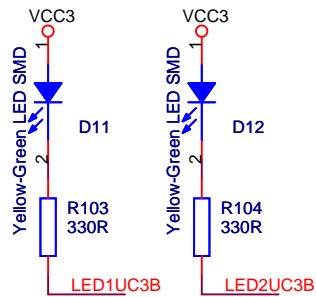
JTAG Connection UC3B (Master) => UC3A3 (Slave)



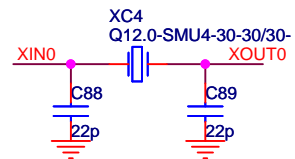
UC3B for UC3A3 USART & JTAG communication through USB



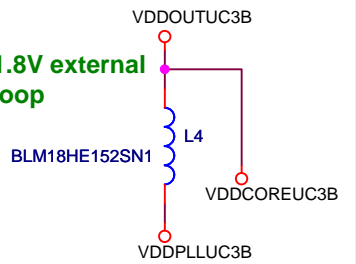
General Purpose Leds Controlled by UC3B



UC3B Main Clock

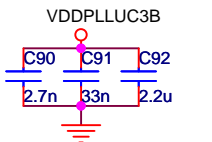


1.8V external loop

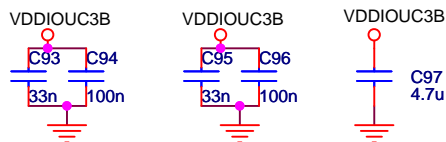


Decoupling capacitors

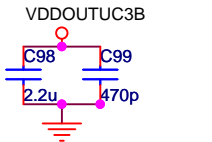
1.8V PLL power supply



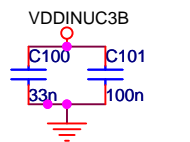
3.3V I/O power supply



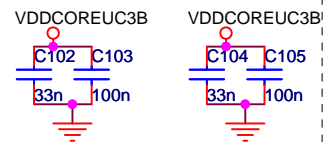
1.8V regulator output



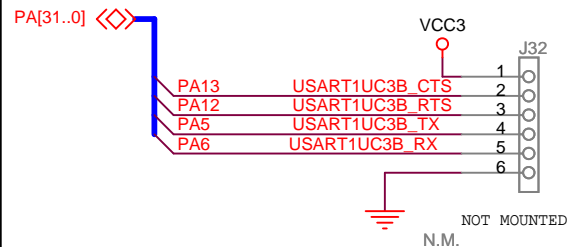
3.3V regulator power supply



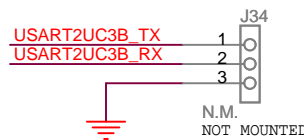
1.8V Core power supply



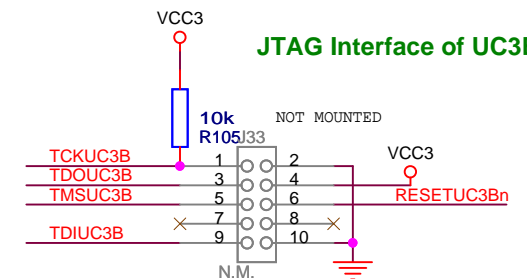
UC3B <=> UC3A3 USART connection



UC3B USART spare



JTAG Interface of UC3B



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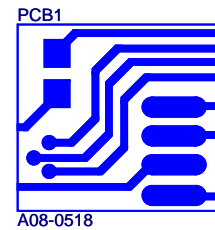
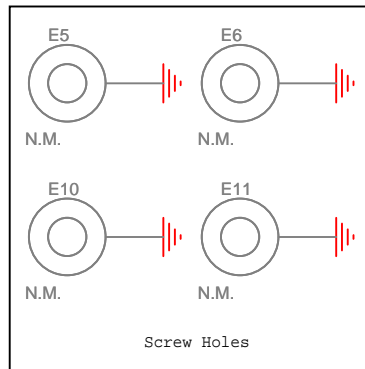
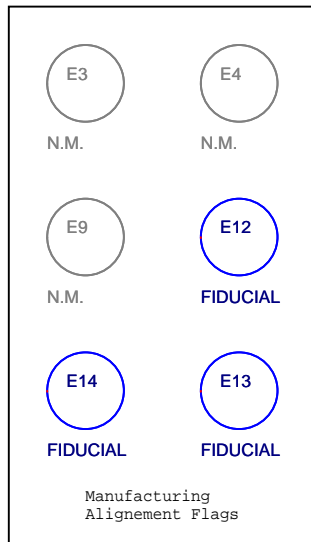
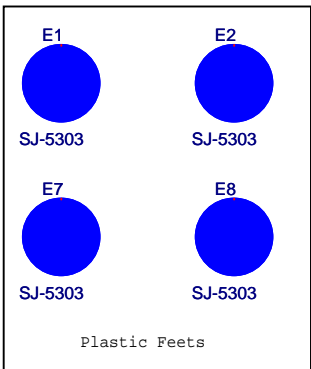
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LOG FILE

REV A/ **Created (SJ, AR)**

REV B/ **Fixed D11 and D12 symbols (SJ 03/09/08)**

REV 3/ **Fixed R70 to 200K instead of 4.3K and change LCD MPN (TL 31/10/08)**



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