

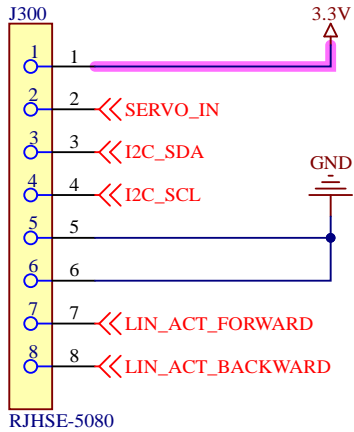
Title: USB Bridge			
Size: A	Project: ECE453 Processor Mezzanine	Rev: A	Sheet: 2 of 10



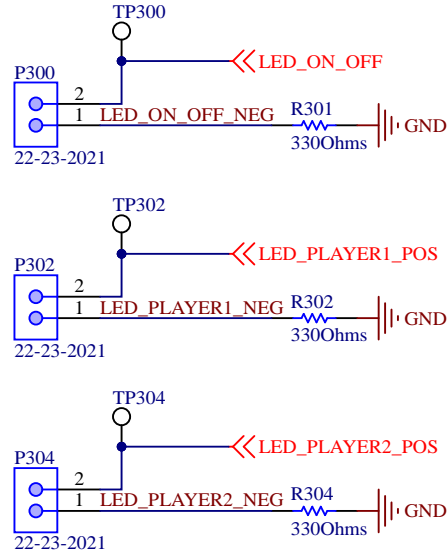
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RJ45 Interface

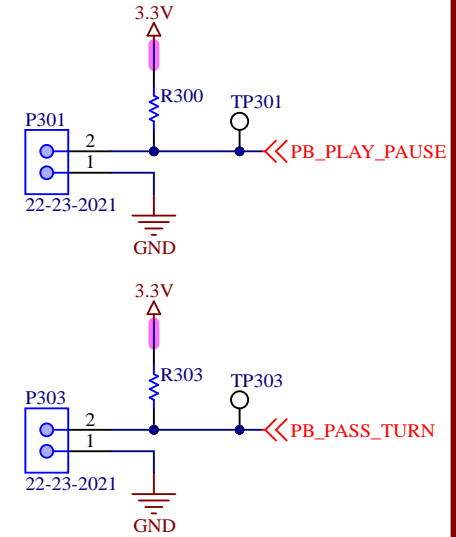
(To Motor Board)



LED Connectors

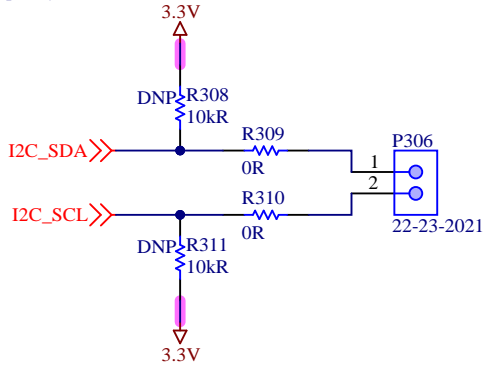


Push Button Connectors

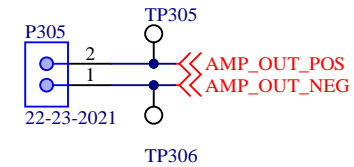


I2C Connector

(To Raspberry Pi)

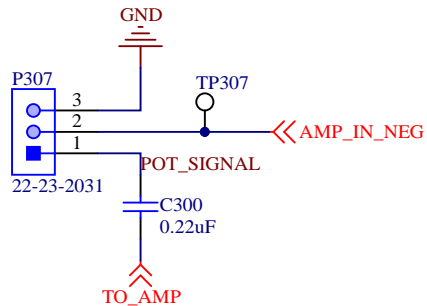


Speaker Connector



Amp Volume Control Connector

(Potentiometer)



Title:

Connectors

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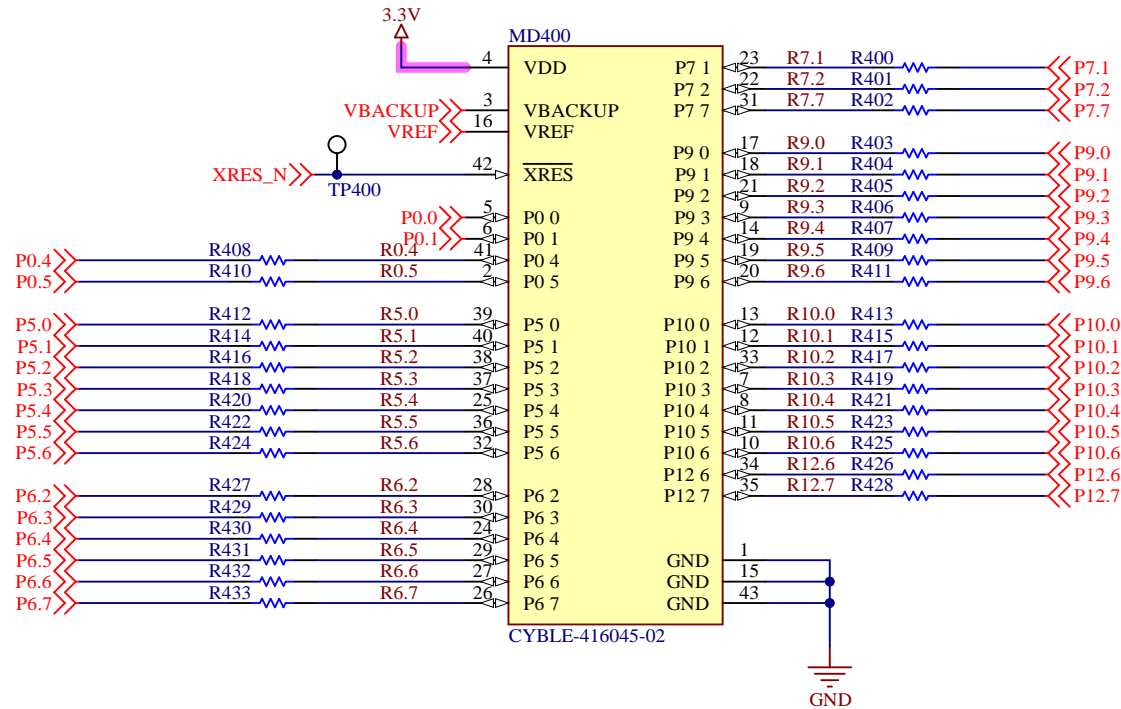
ECE453 Processor Mezzanine

A

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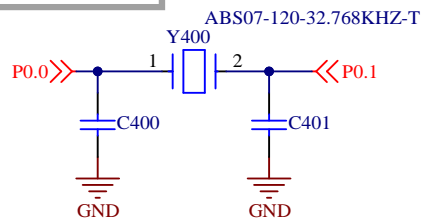


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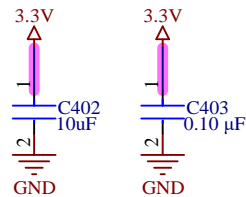
DESIGN NOTE:

32.768KHz Crystal required for BLE



DESIGN NOTE:

Bypass Caps for MCU



Title:

PSoC6

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Project

ECE453 Processor Mezzanine

Rev:

A

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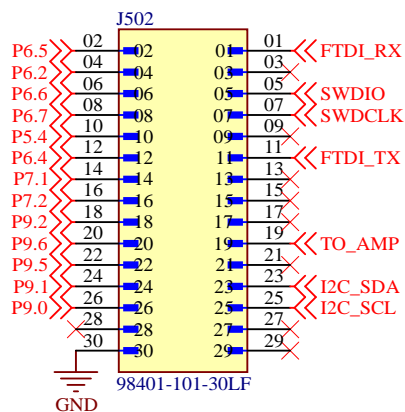
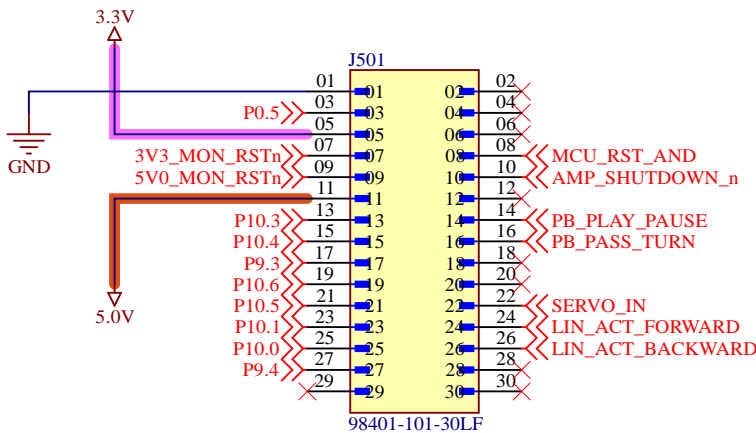
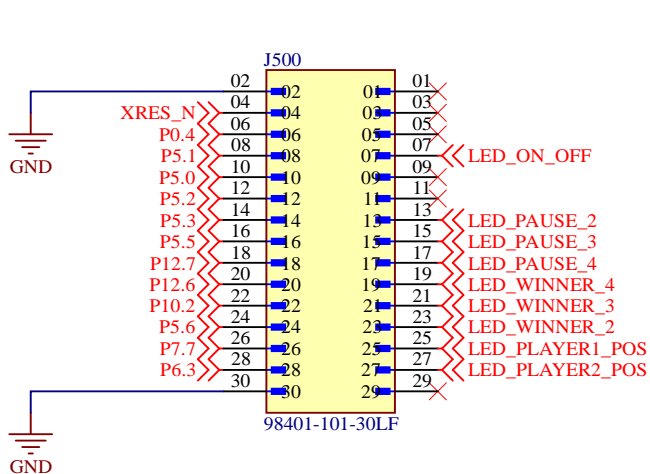
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MH500 MH501 MH502 MH503



Bucky

U500

Title:

Mechanicals

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Project

Rev:

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ECE453 Processor Mezzanine

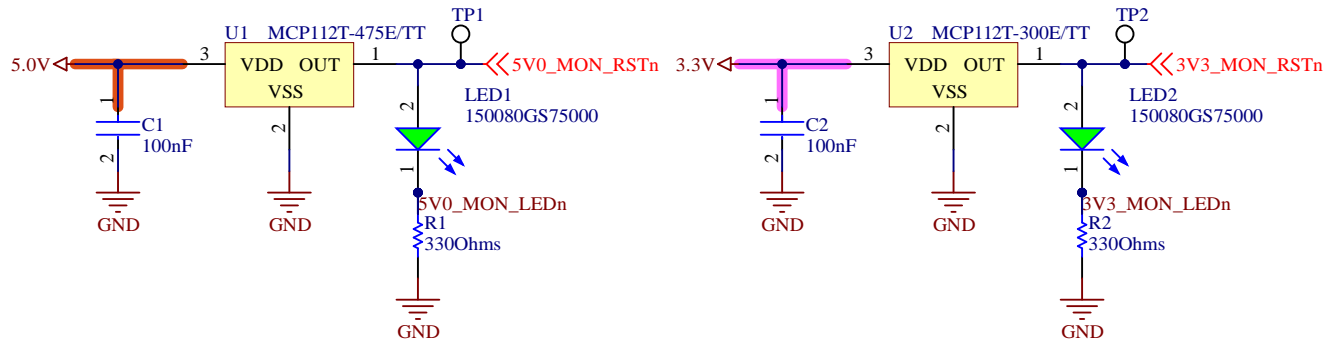
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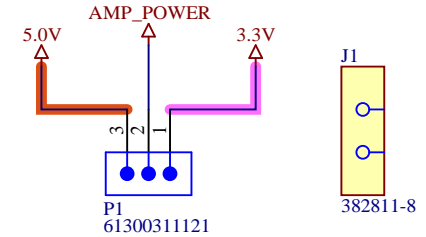


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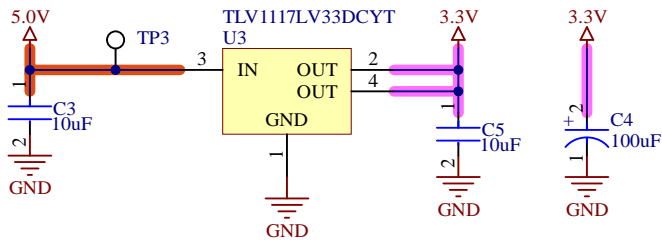
Voltage Monitoring



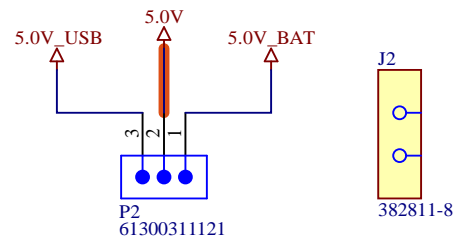
Amp Power Select



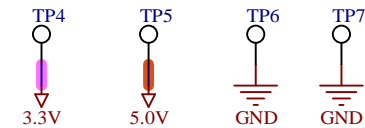
Buck Regulating



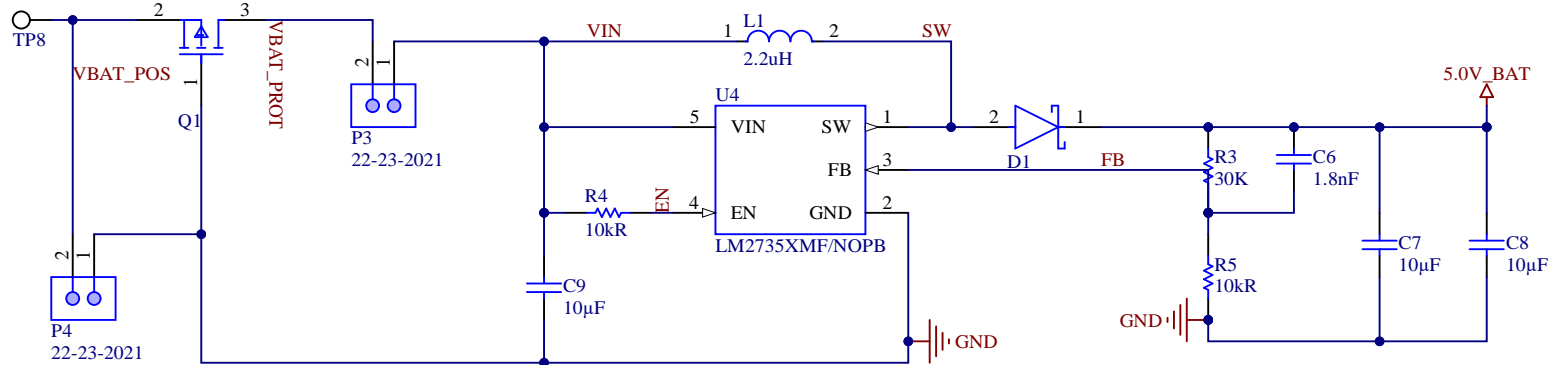
5.0V Supply Selection



Test Points



Boost Regulating



Title:

ICs

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ECE453 F23 Base Project

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A

B

C

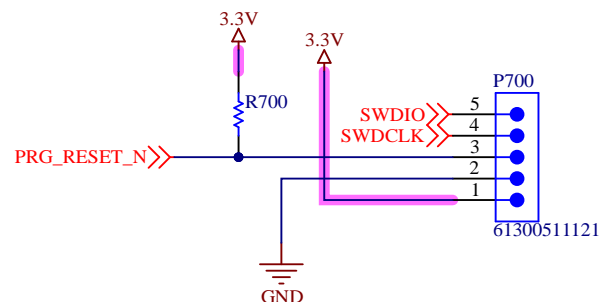
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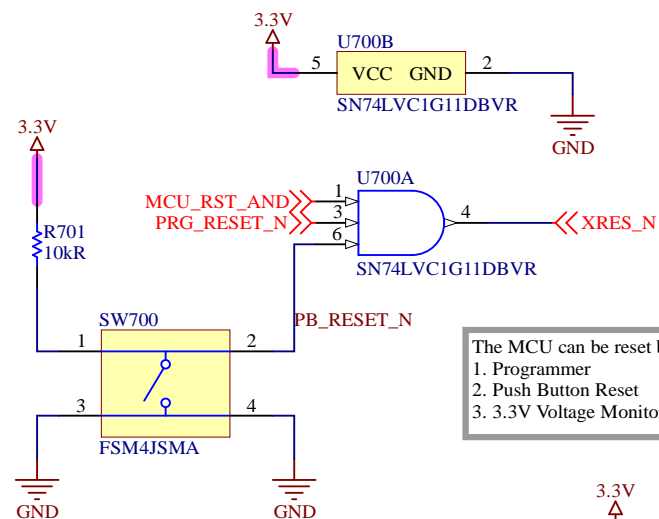
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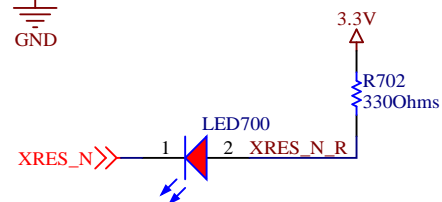
4



Header for the MiniProg4 Programmer.
The programmer can be used to supply
3.3V to the MCU.



The MCU can be reset by 1 of 3 sources
1. Programmer
2. Push Button Reset
3. 3.3V Voltage Monitor



A

B

C

D



Title:

Programming/Reset

Size:

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Project

ECE453 Processor Mezzanine

Rev:

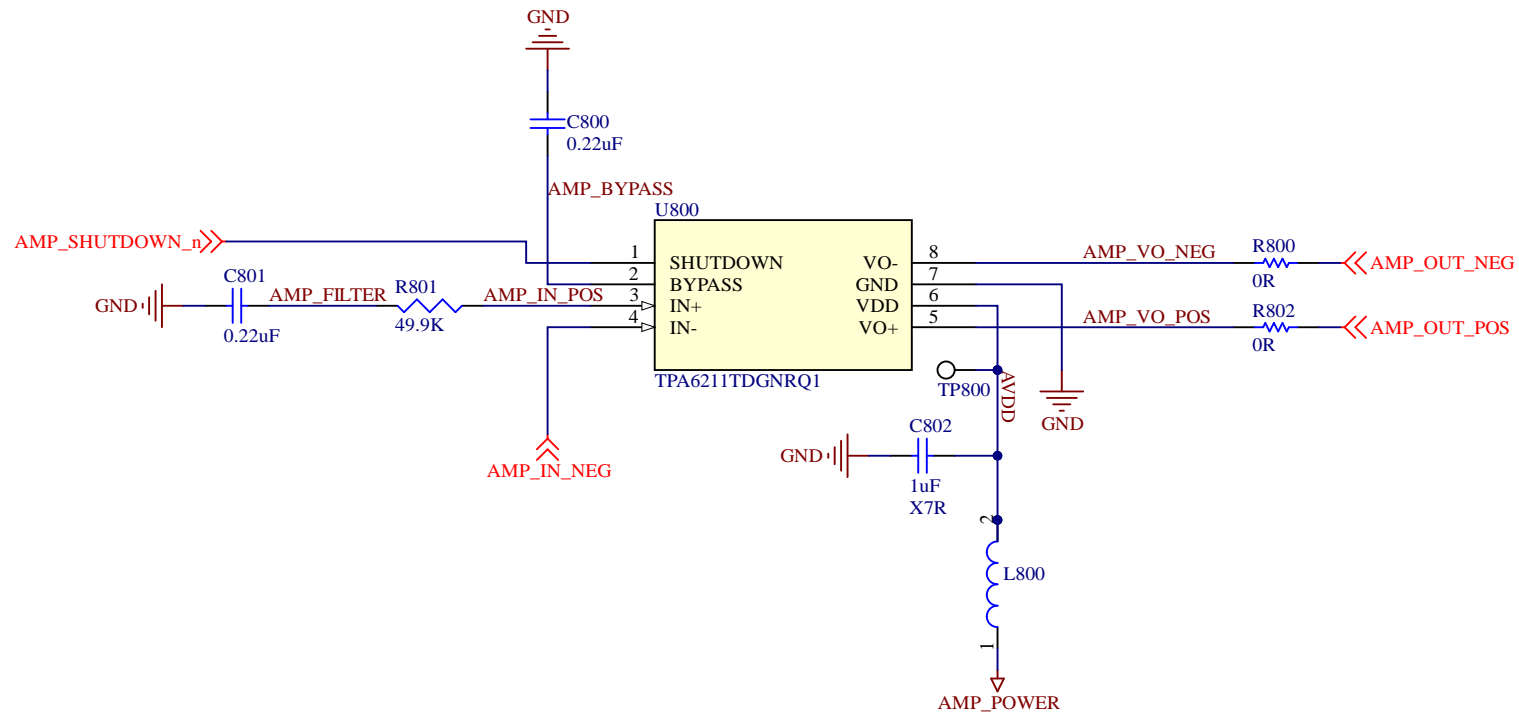
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Title: User IO			
Size: A	Project: ECE453 Processor Mezzanine	Rev: A	Sheet: 8 of 8



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