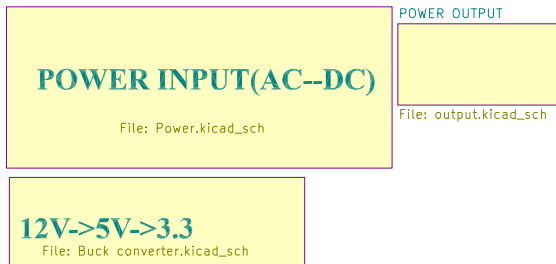


Smart Electrical Energy Management System (Hardware)

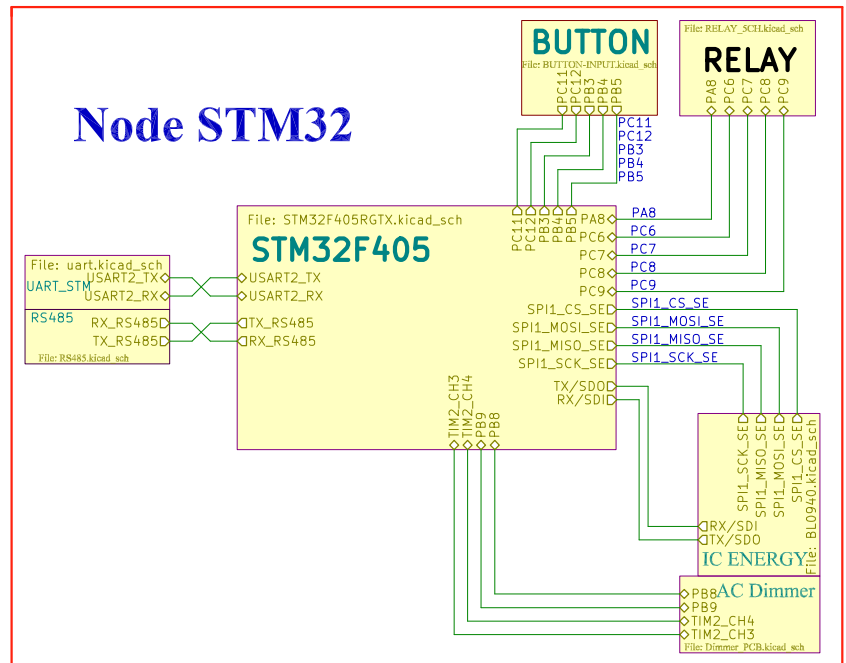
PPI

Brorn Munyratnak x Noch Kakada

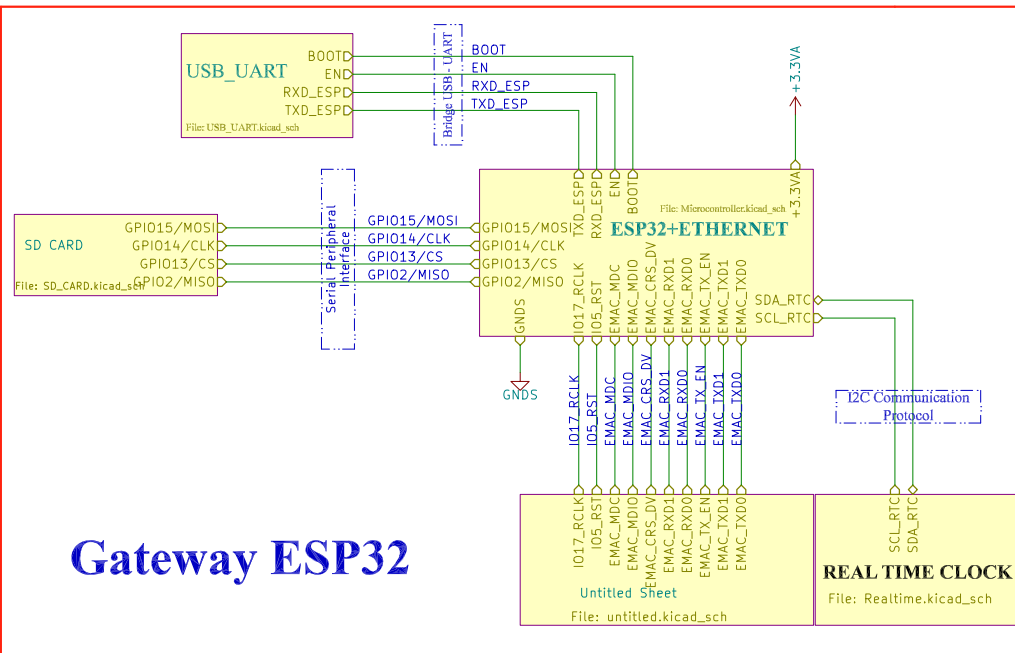
Power Supply



Node STM32



Gateway ESP32



Preah Kossamak Polytechnic Institute

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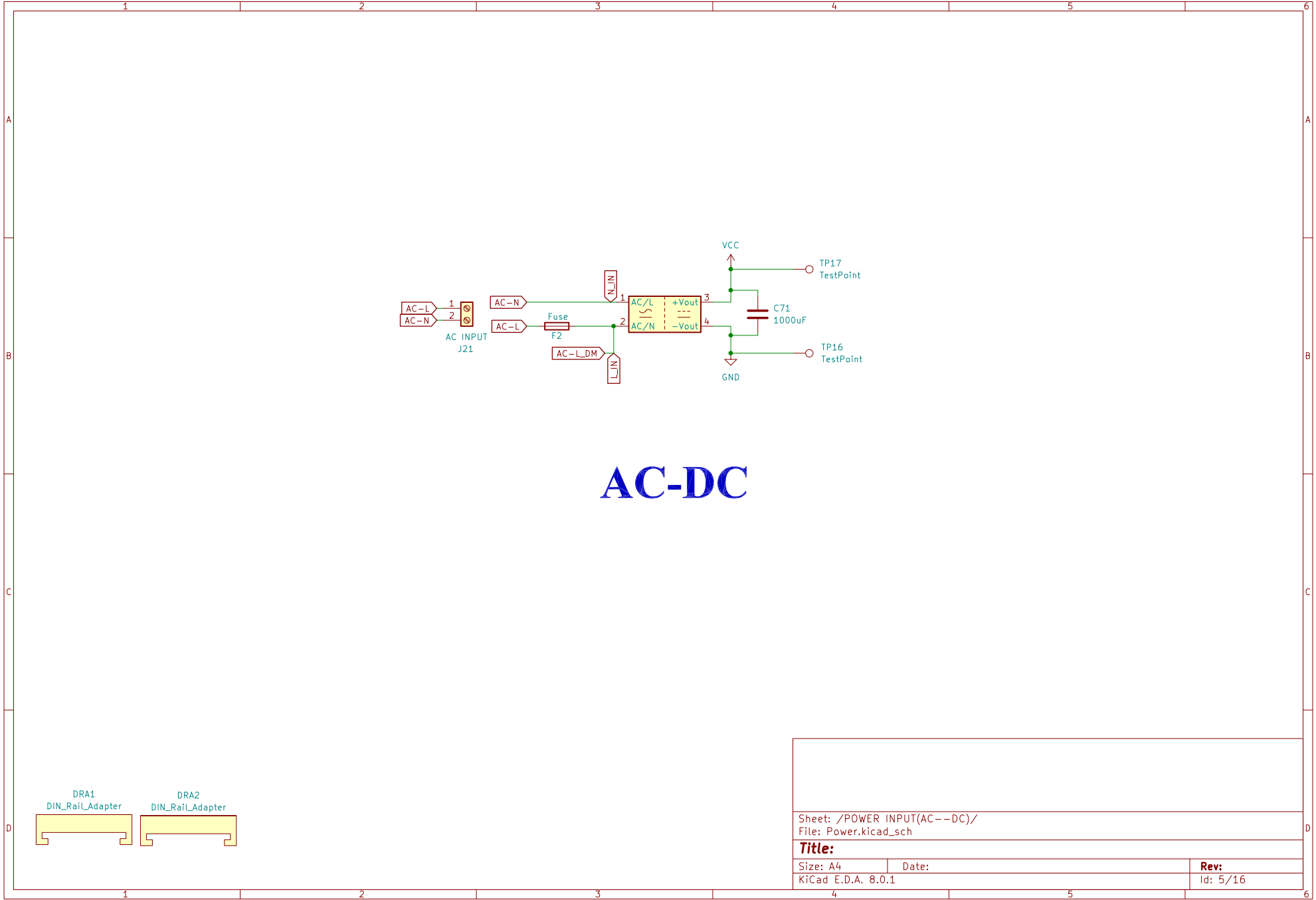
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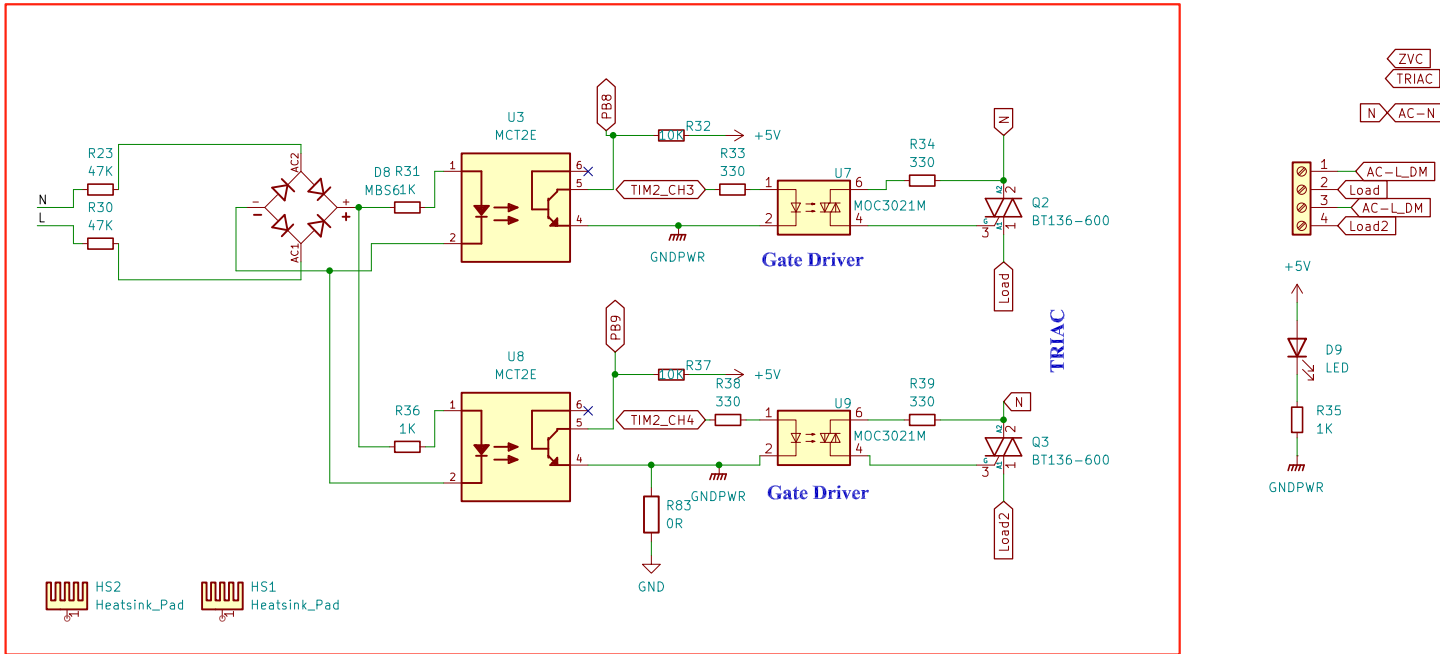
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Dimmer

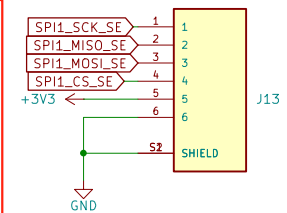
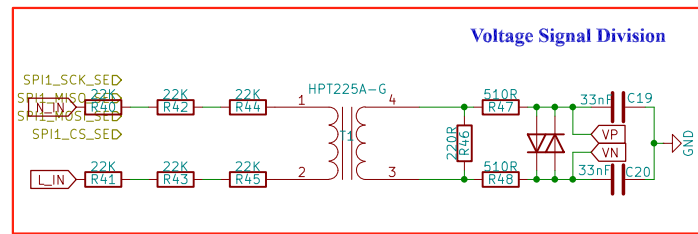
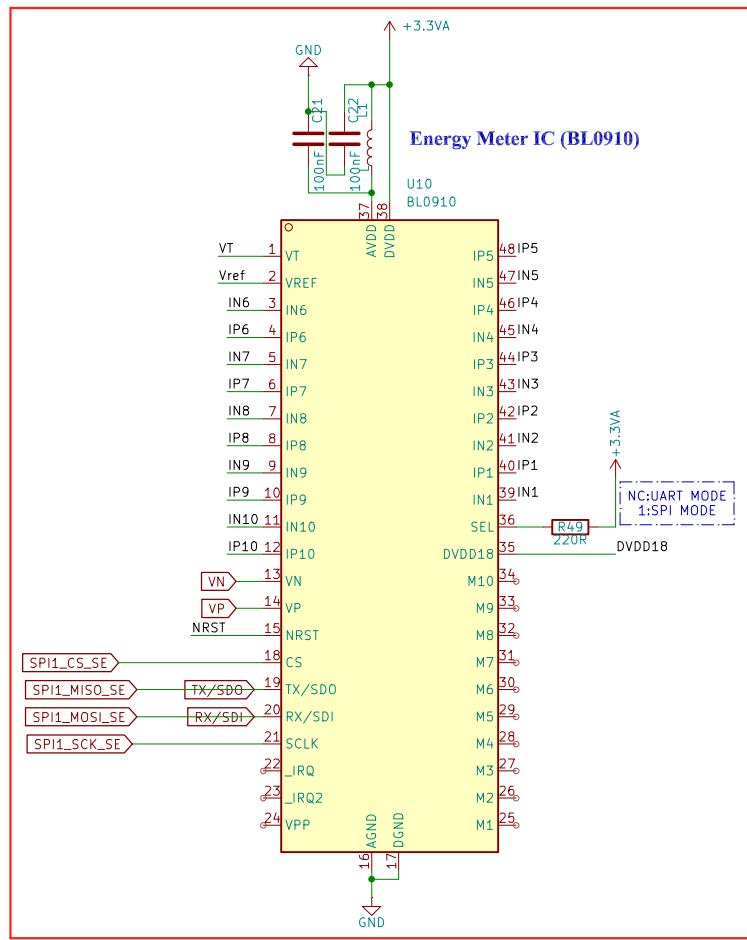
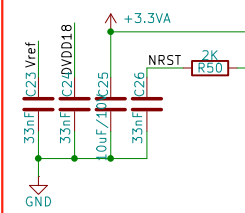
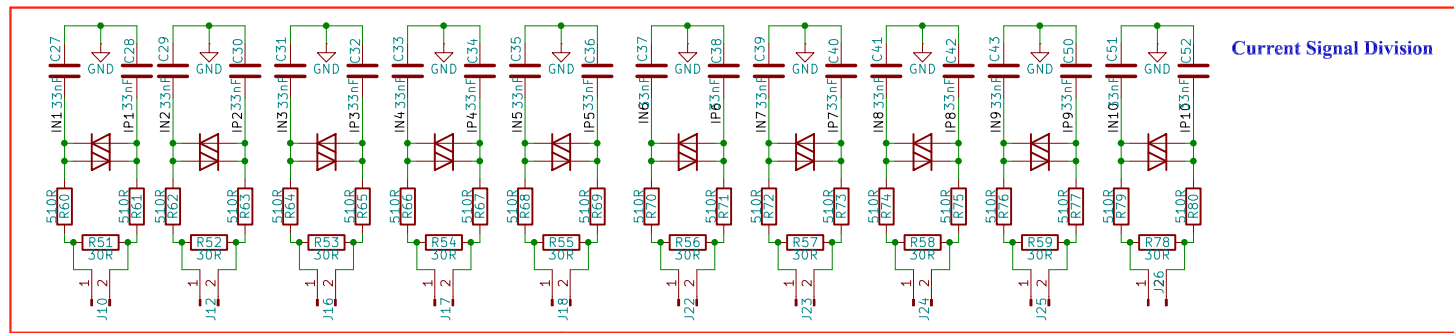


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Energy Meter

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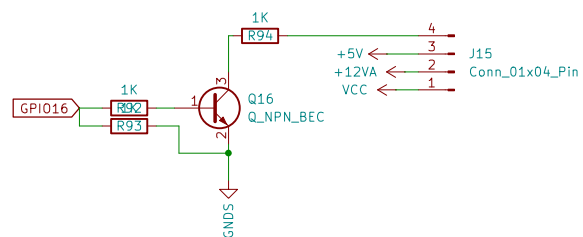
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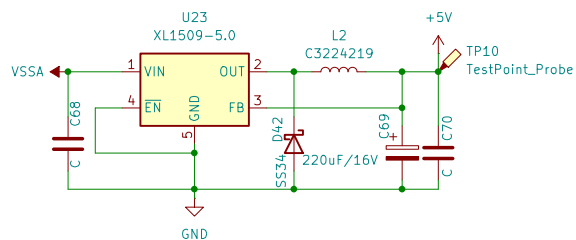
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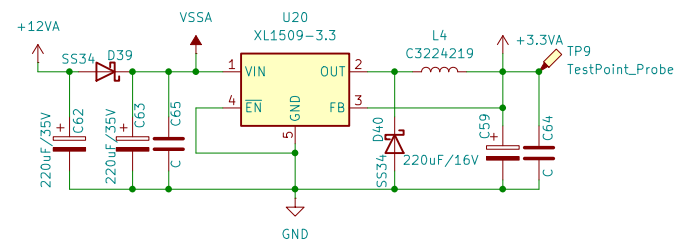
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DC-DC



5V Buck converter



3V3 Buck converter

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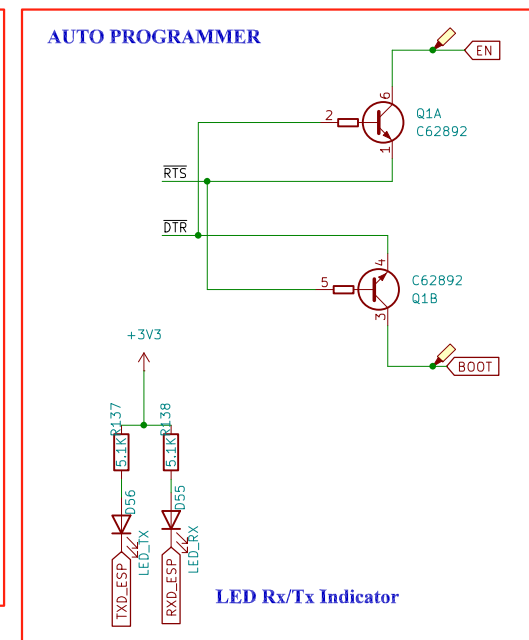
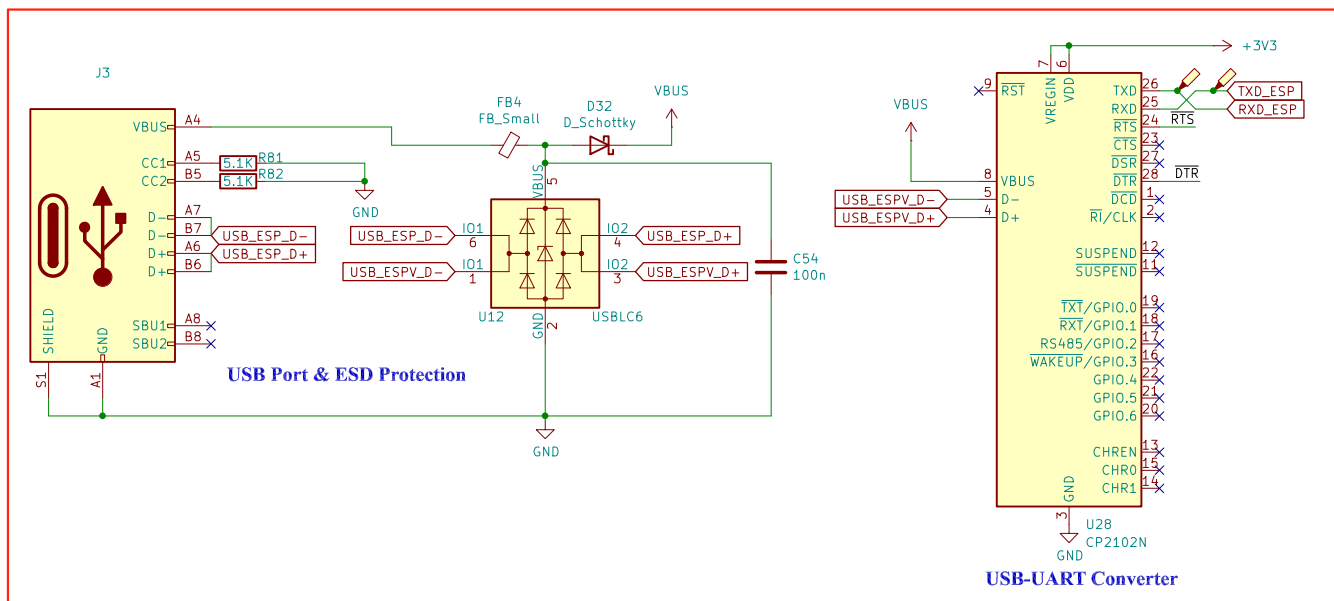
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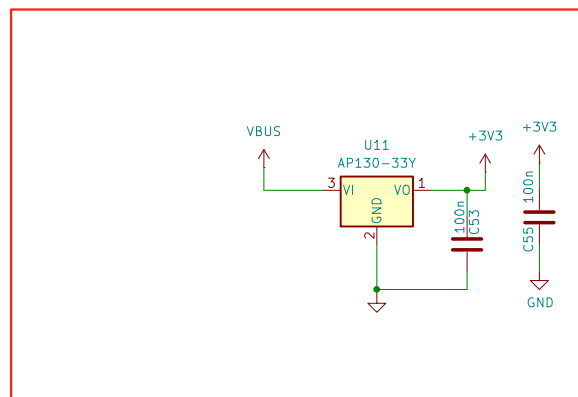
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Debugger



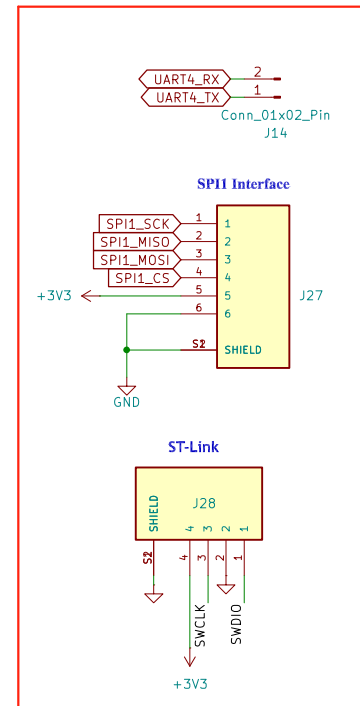
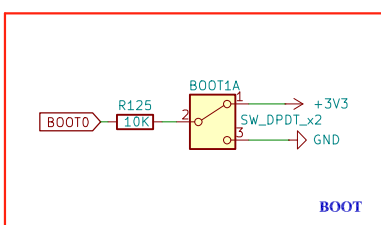
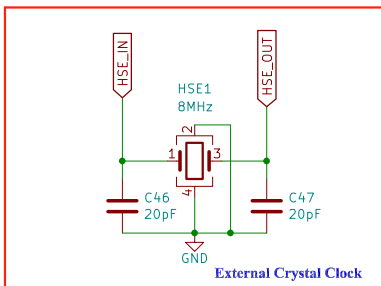
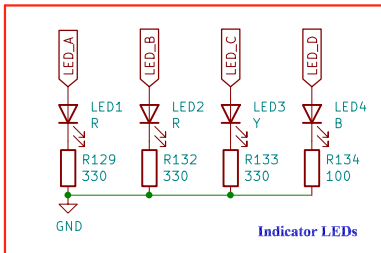
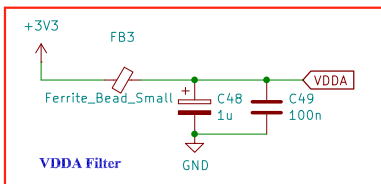
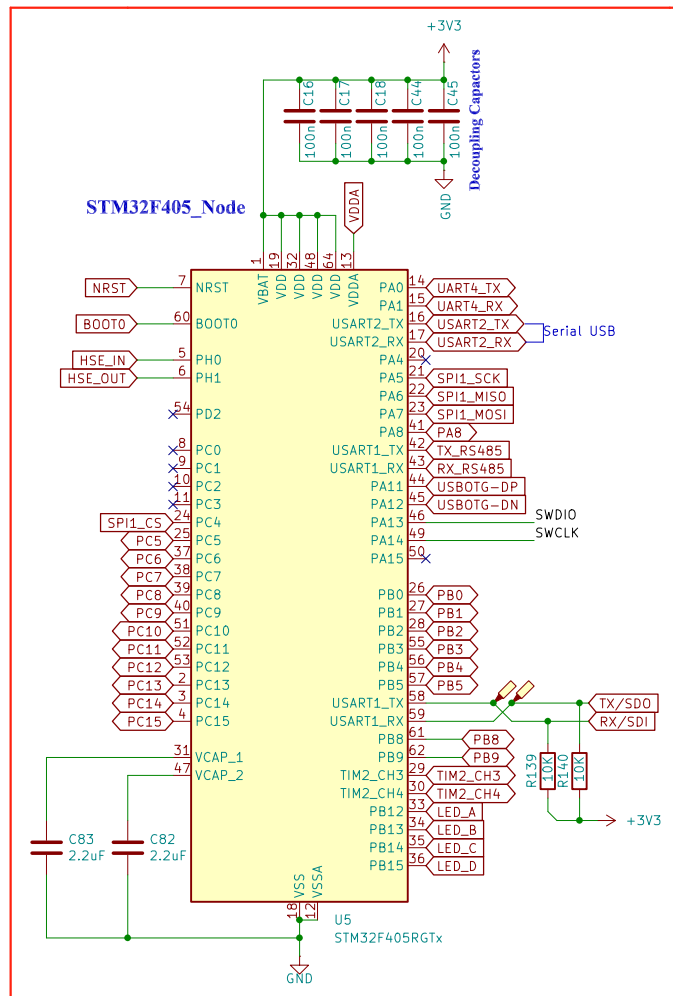
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Node STM32



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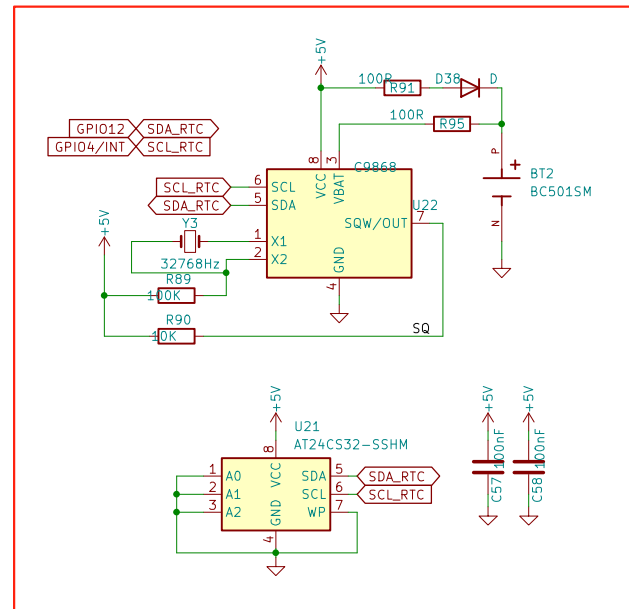
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Real Time Clock



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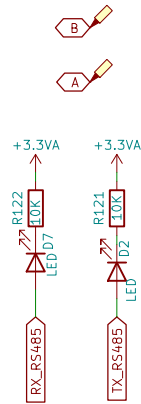
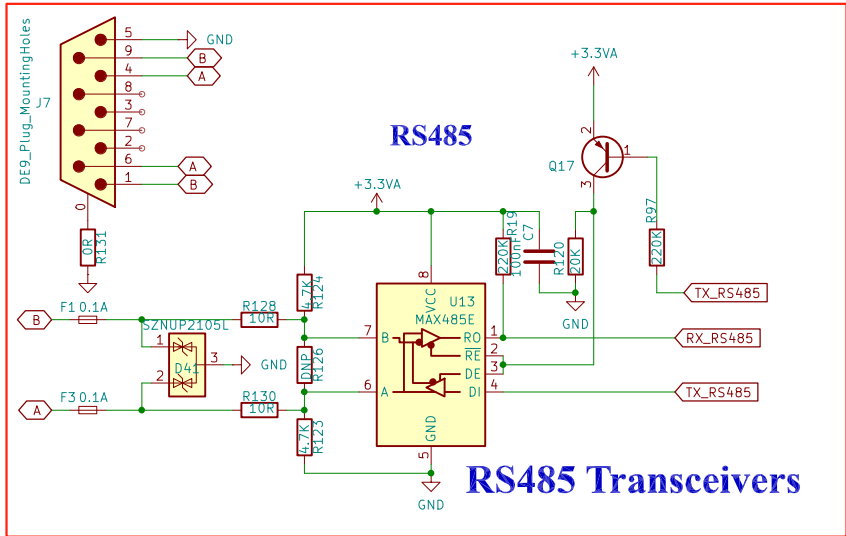
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RS485

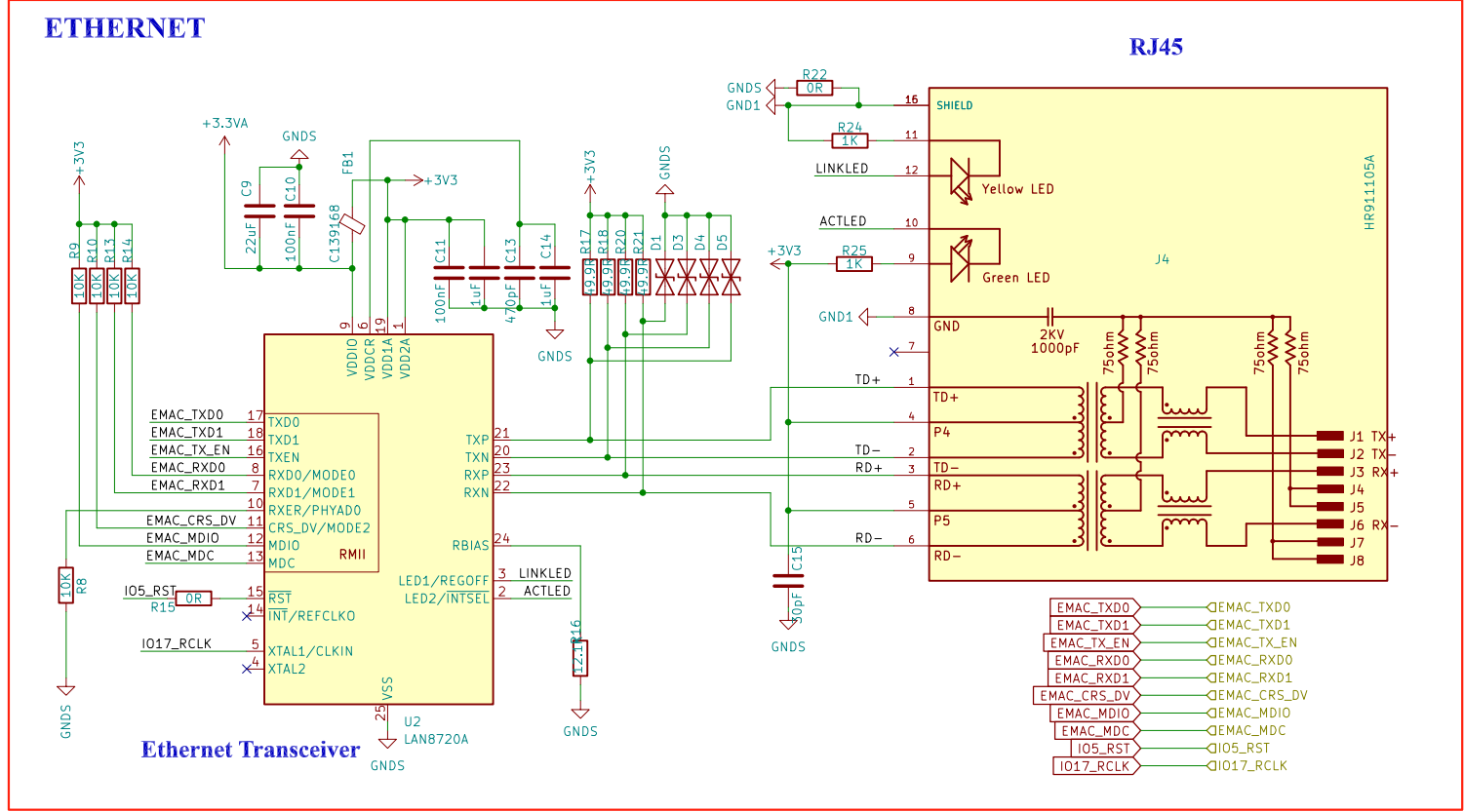


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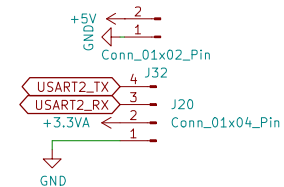
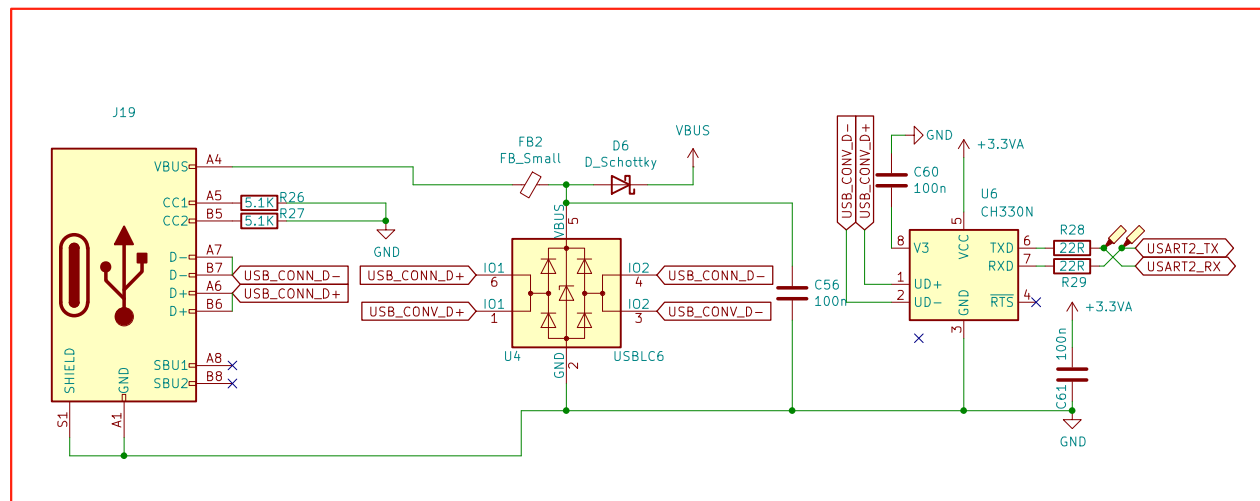


Ethernet RJ45

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USB-UART



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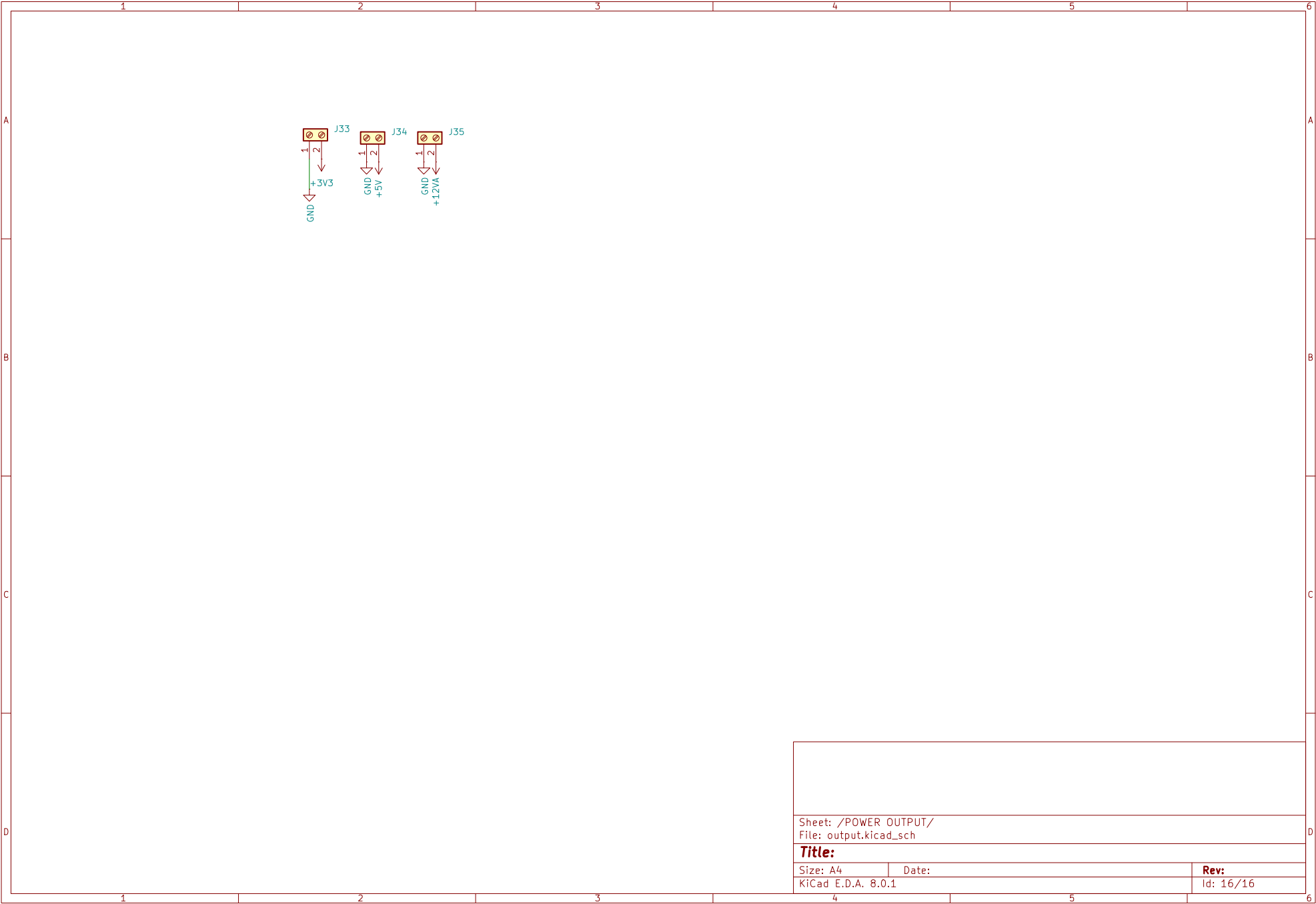
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Rev:

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Size: A4

Date:

Rev:

KiCad E.D.A. 8.0.1

Id: 16/16