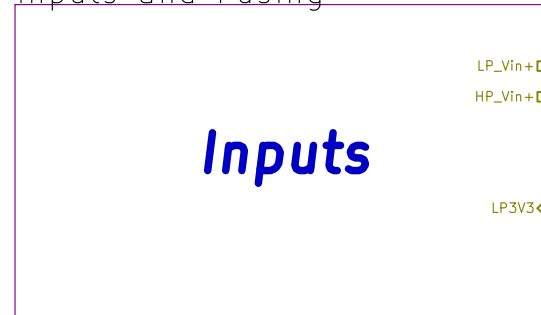


Inputs and Fusing



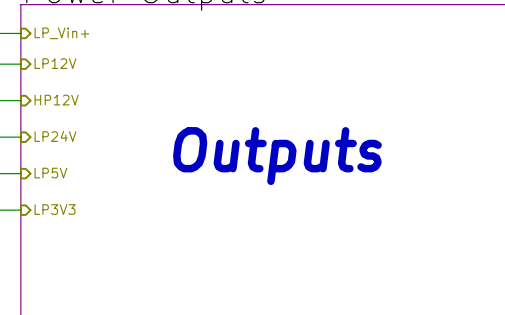
Inputs and Fusing.sch

Power Conversion



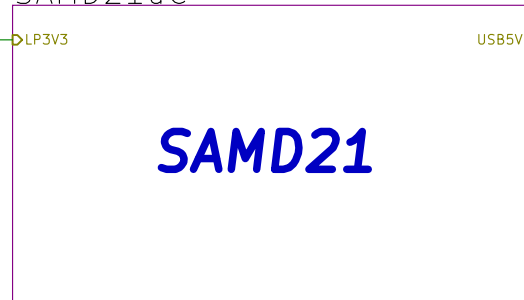
Power Conversion.sch

Power Outputs



Power Outputs.sch

SAMD21uC



SAMD21uC.sch

Wiznet Ethernet



Wiznet Ethernet.sch

Paradigm Hyperloop

Sheet: /

File: LVDC Distribution.sch

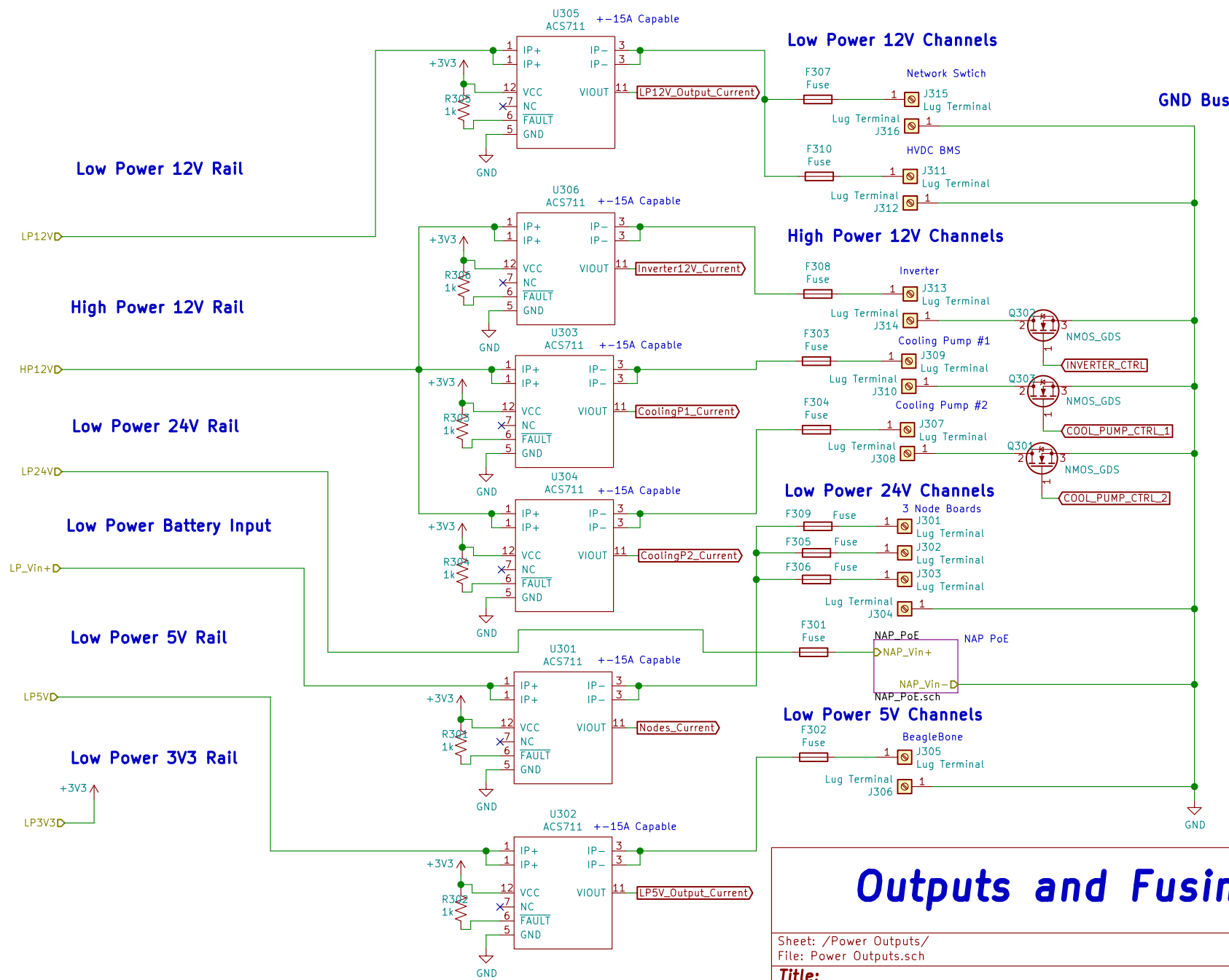
Title: LVDC Power Distribution Board

Size: A4 Date: **Mark Belbin -- Fall 2018**

KiCad E.D.A. kicad (5.0.2)-1

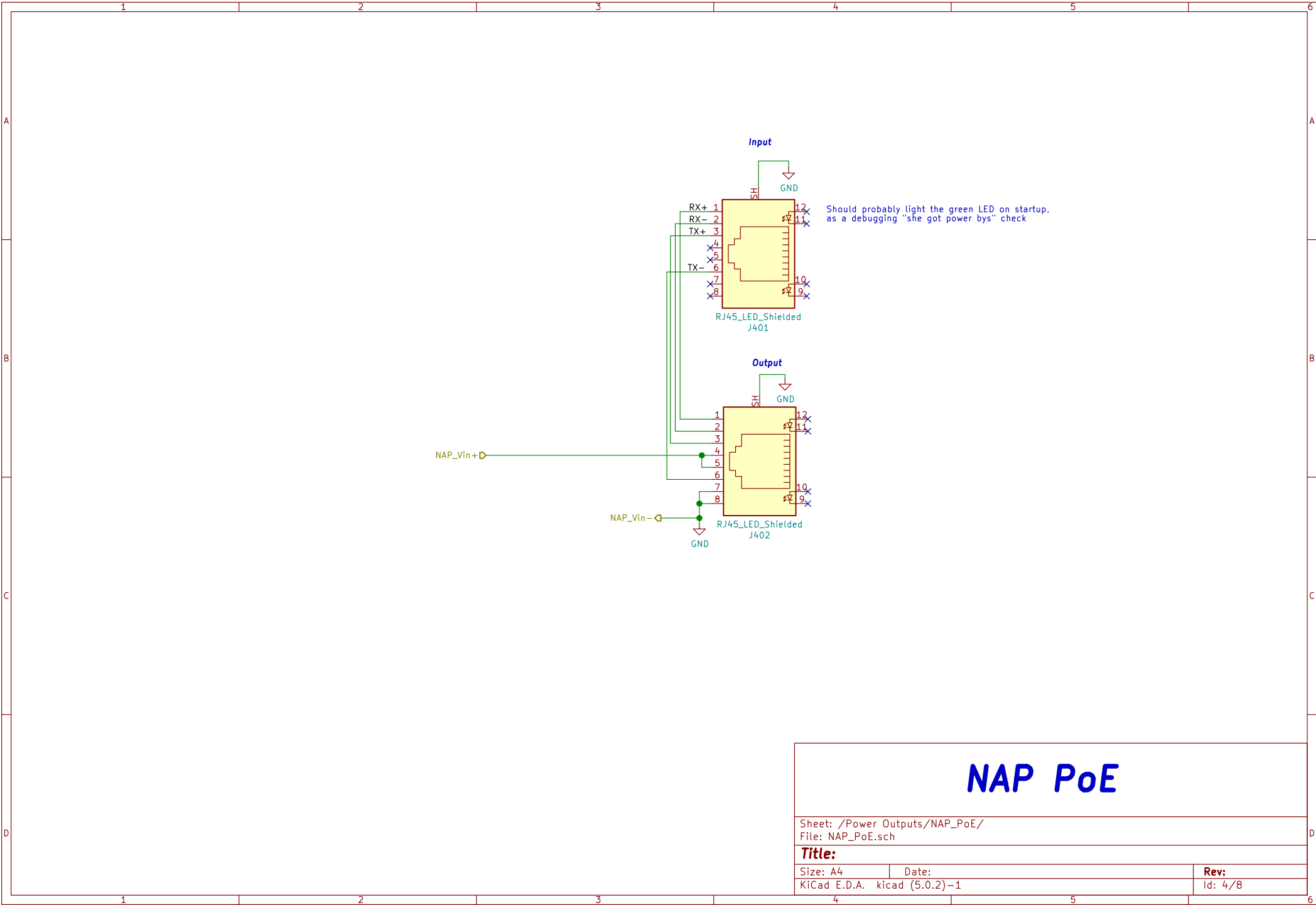
Rev:

Id: 1/8

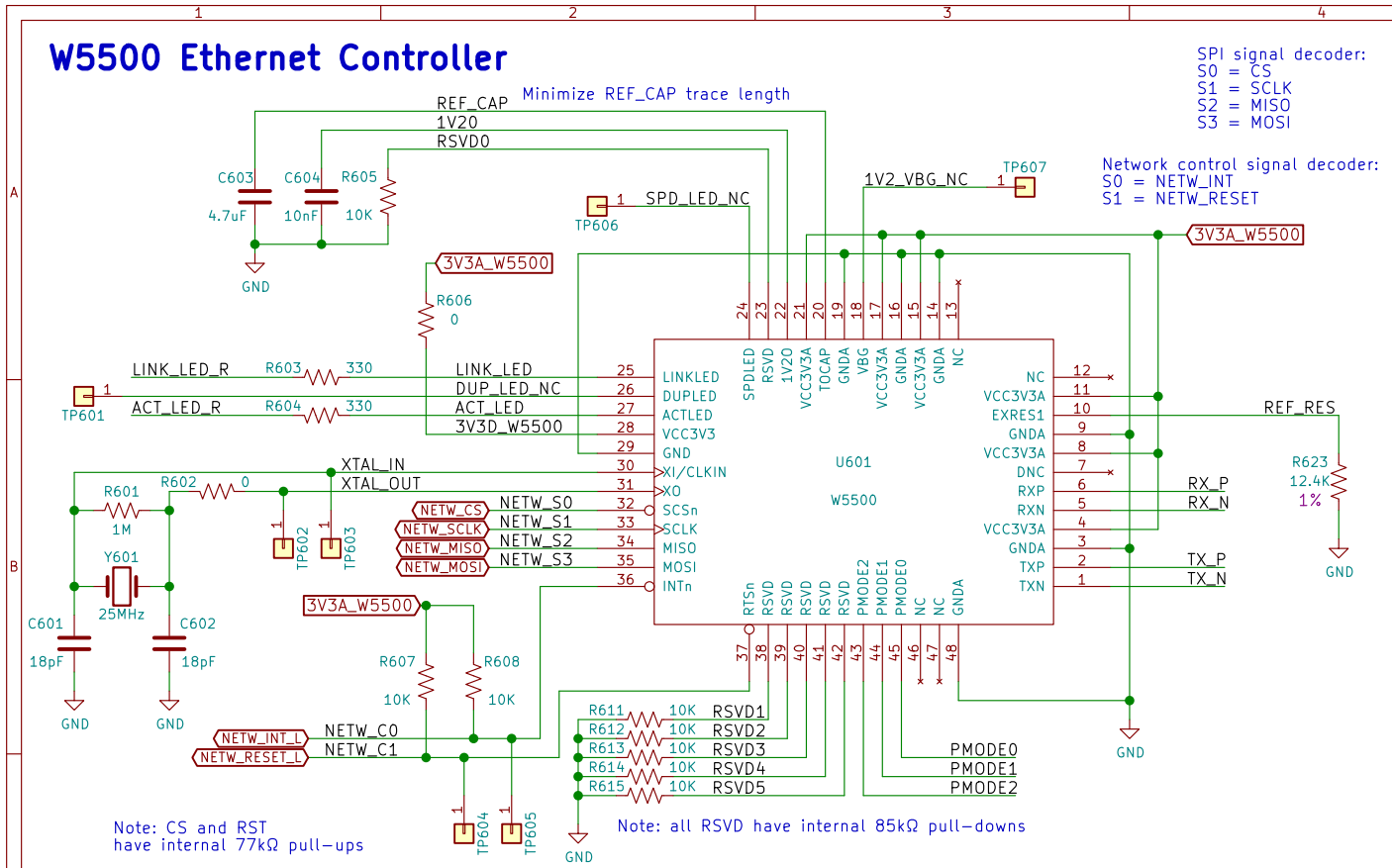


Outputs and Fusing

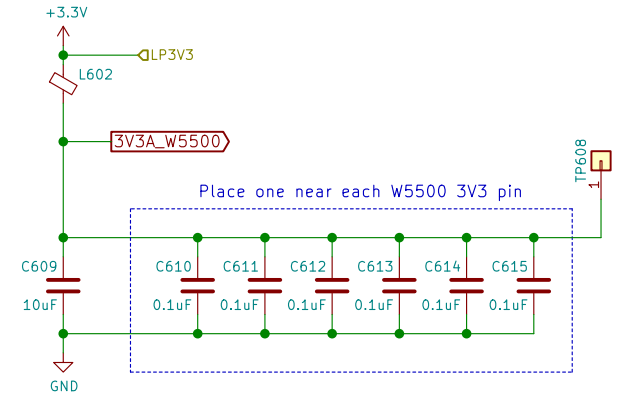
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KiCad E.D.A. kicad (5.0.2)-1		Id: 3/8



W5500 Ethernet Controller

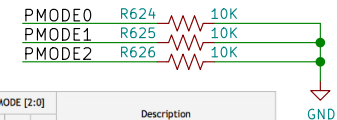


Power Supply Capacitors



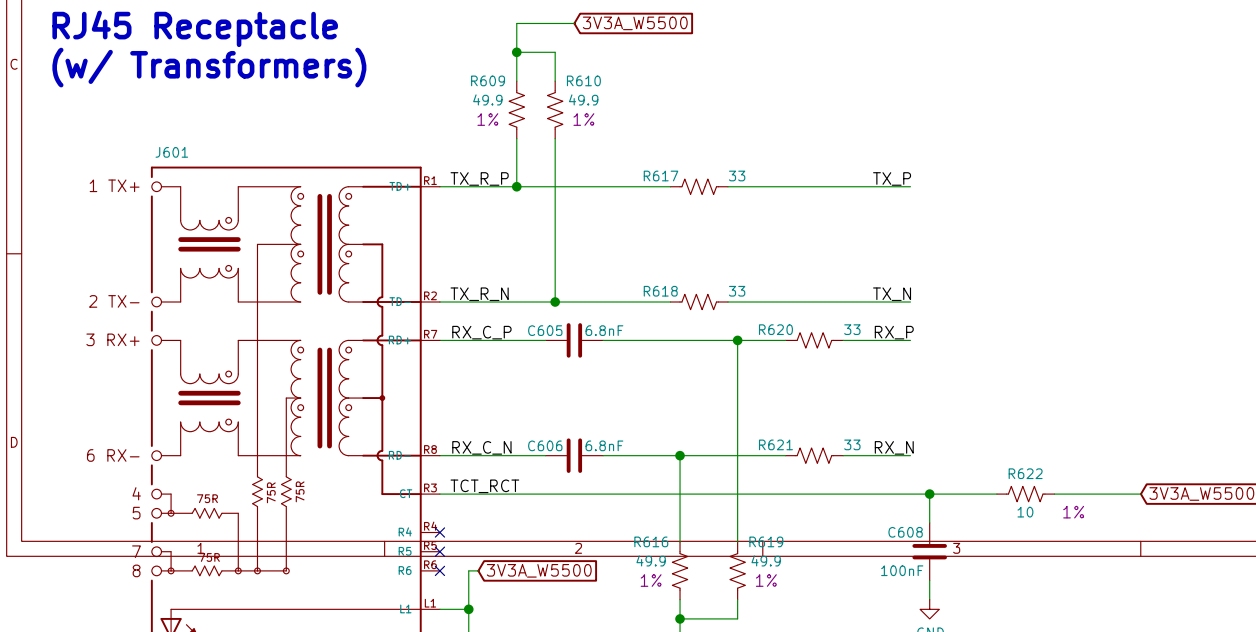
Network Mode Selection

Default: all pulled up to 3V3
(Note all have internal 77kΩ pull-ups)



PMODE [2:0]			Description
2	1	0	
0	0	0	10BT Half-duplex, Auto-negotiation disabled
0	0	1	10BT Full-duplex, Auto-negotiation disabled
0	1	0	100BT Half-duplex, Auto-negotiation disabled
0	1	1	100BT Full-duplex, Auto-negotiation disabled
1	0	0	100BT Half-duplex, Auto-negotiation enabled
1	0	1	Not used
1	1	0	Not used
1	1	1	All capable, Auto-negotiation enabled

RJ45 Receptacle (w/ Transformers)



WIZNET

Sheet: /Wiznet Ethernet/
File: Wiznet Ethernet.sch

Title:

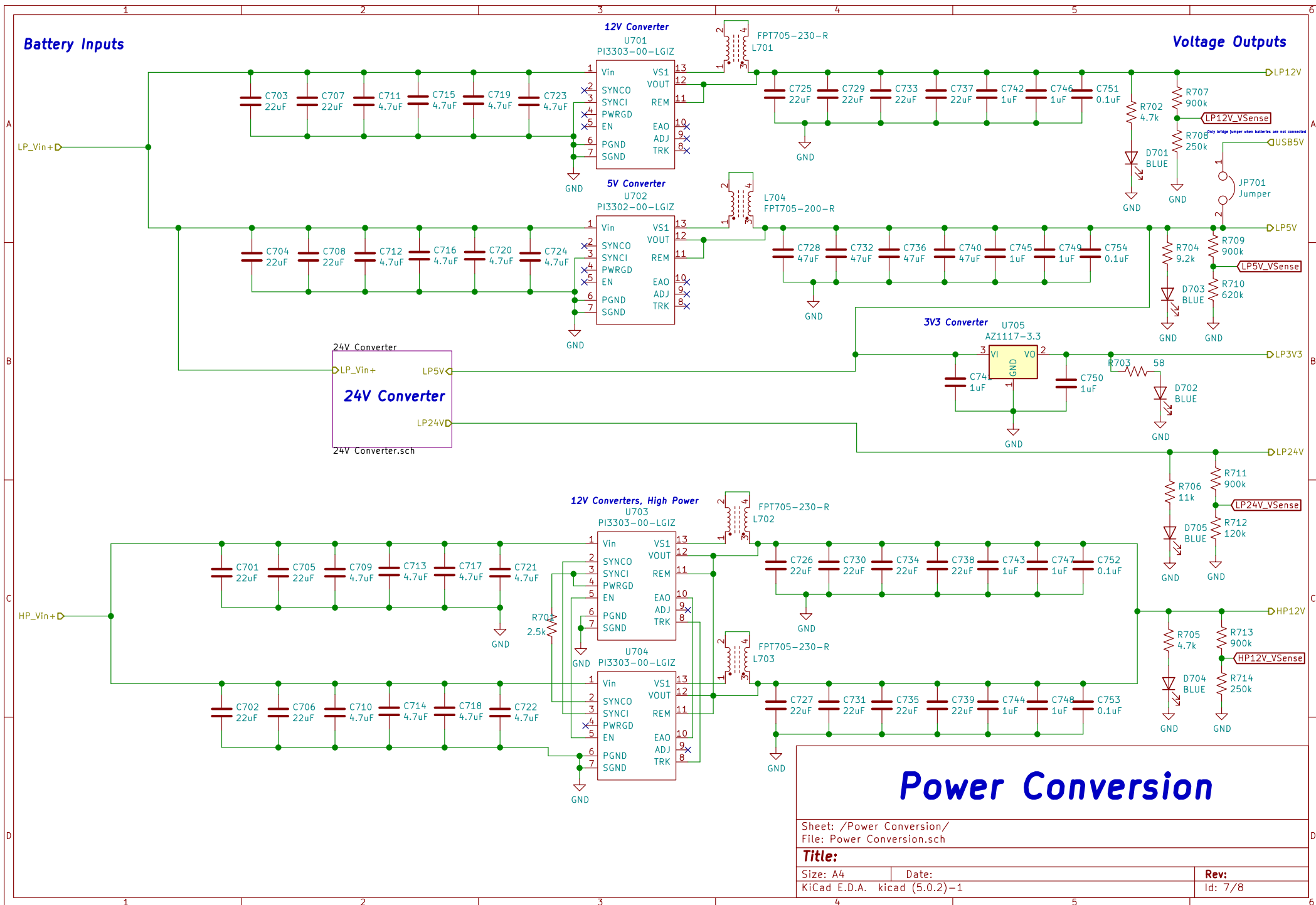
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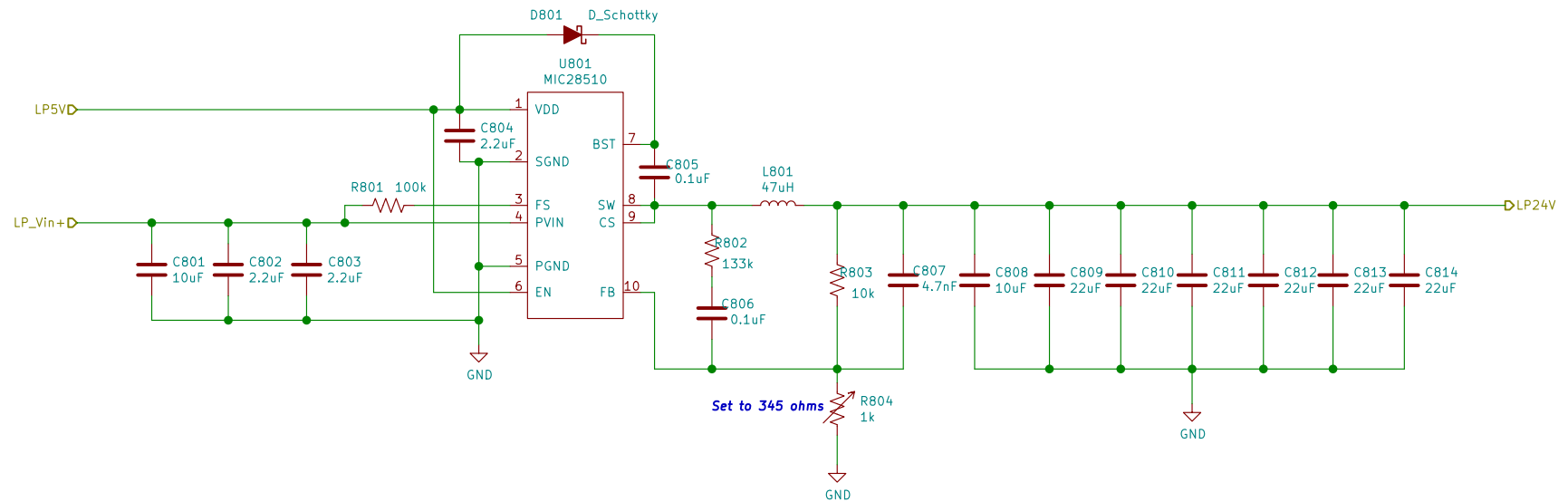
Date:

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Rev:

Id: 6/8





24V Converter

Sheet: /Power Conversion/24V Converter/
 File: 24V Converter.sch

Title:

Size: A4

Date:

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Rev:

Id: 8/8