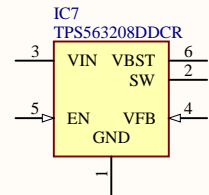
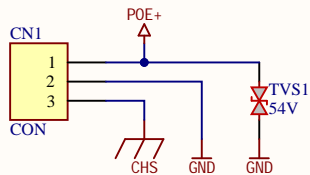
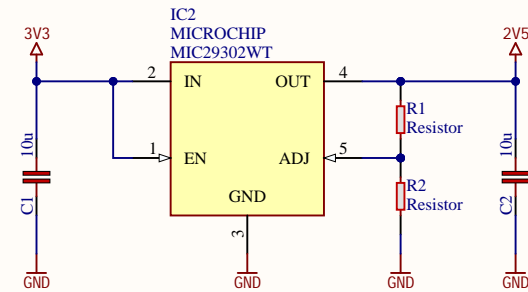


^ Kellene valami jó soft start + polarity protection!

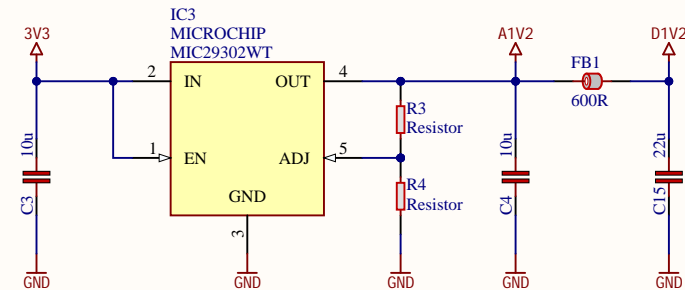


^ TMAX-0530-4R7-M
LCSC Part # C429772

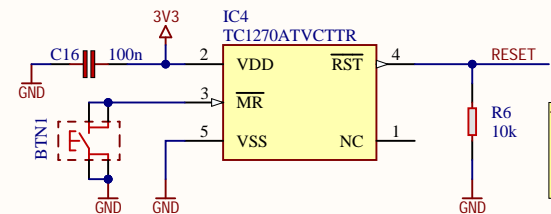


^ Power:
- 3V3: 80 mA -> 0.264 W
- 2V5: 330 mA -> 0.825 W
- 1V2: 1200 mA -> 1.44 W

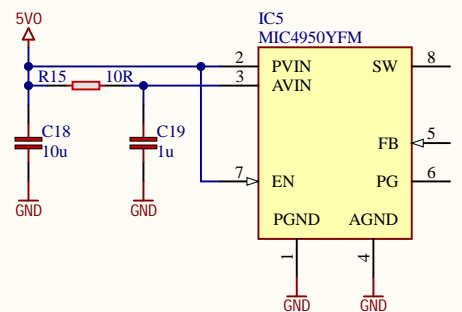
^ LD0:
- MICROCHIP, MIC29302WT
- MICROCHIP, MCP1827-ADJE/AT



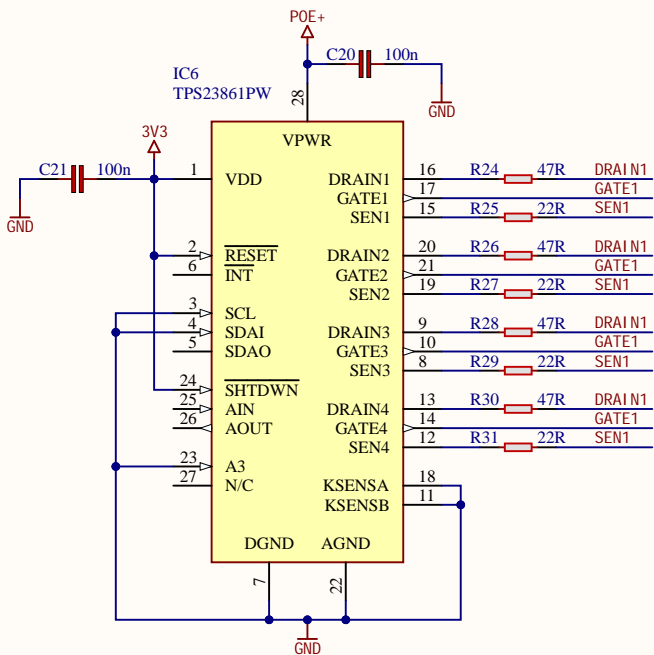
^ Start Up Sequence:
1: 3V3, 2V5
2: 1V2
3: 10ms delay
4: RESET high



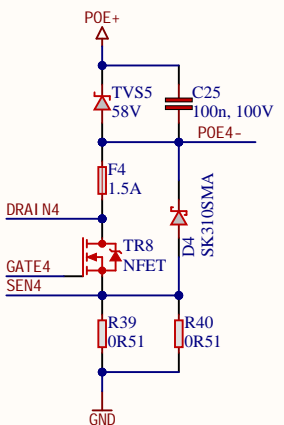
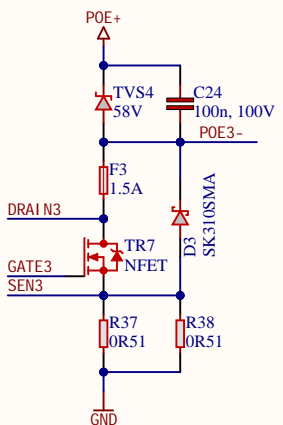
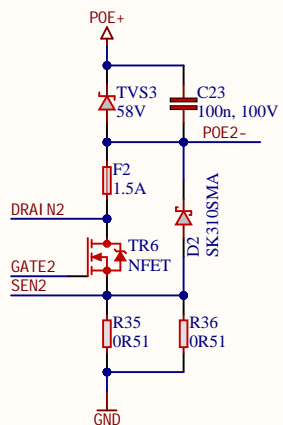
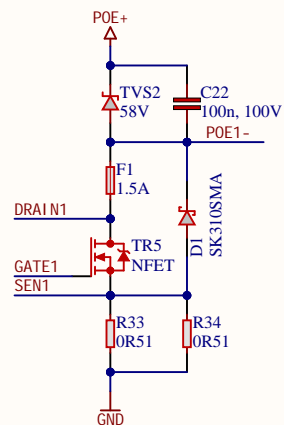
^ Supervi sor:
TC1270ATVCTTR
delay = 140 ... 560 ms



3V3
^

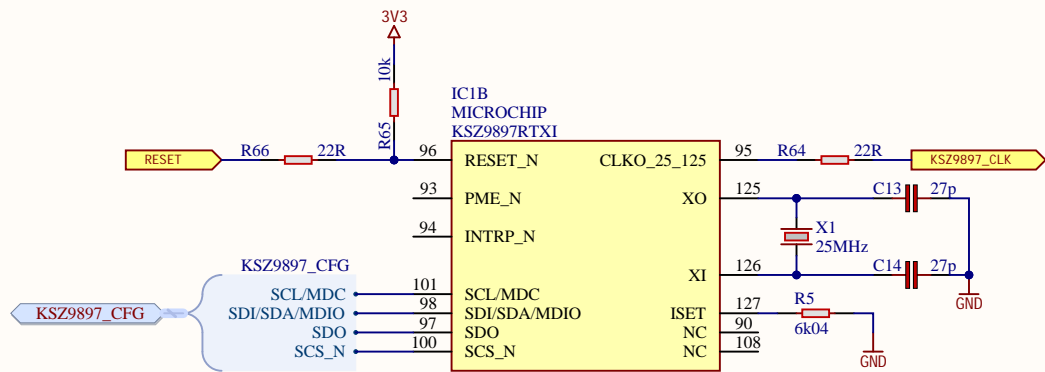
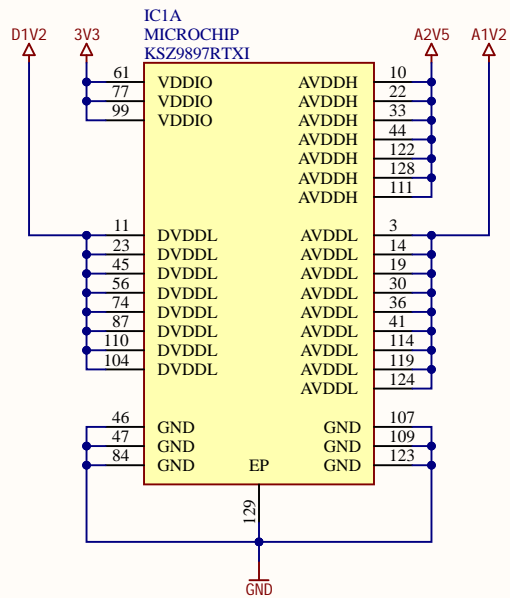


^ POE Powerhez alkatrészek:
- NFET: PSMN039-100YS, BSC440N10NS3GATMA1
- FUSE: 1206, 63VDC
- CS RES: CS03FTFPR510 v. 0805
- TVS: SMBJ58A v. SM6T68A
- SCHOTTKY: SK310SMA

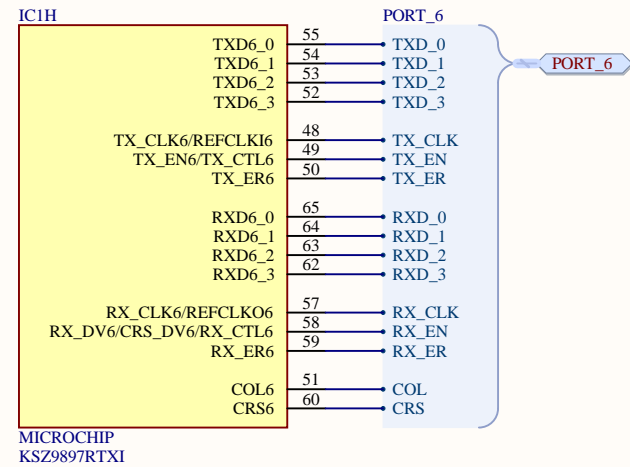
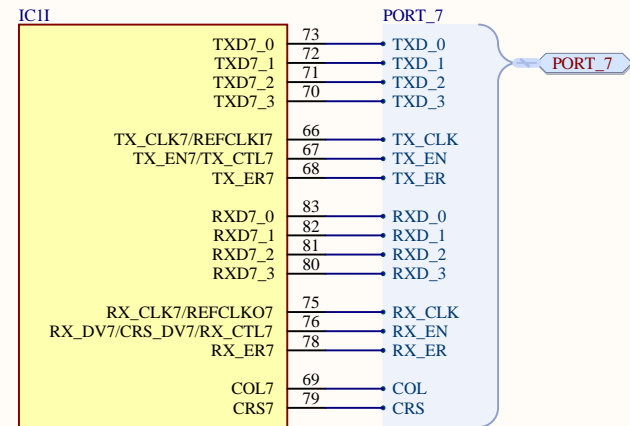
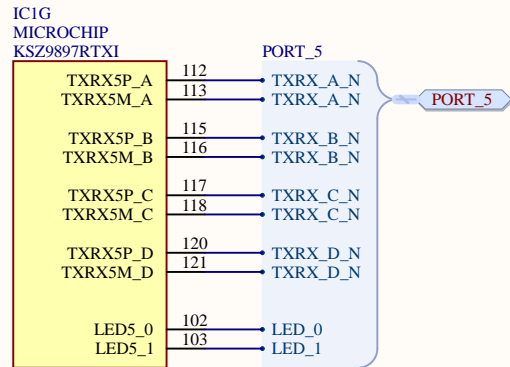
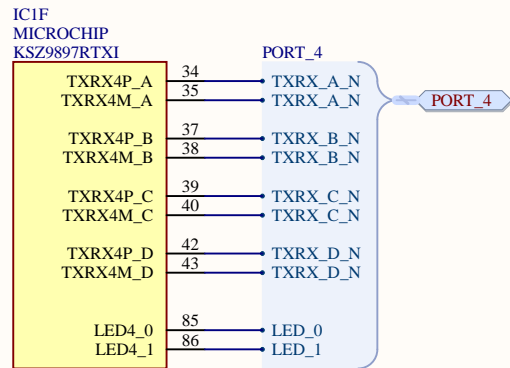
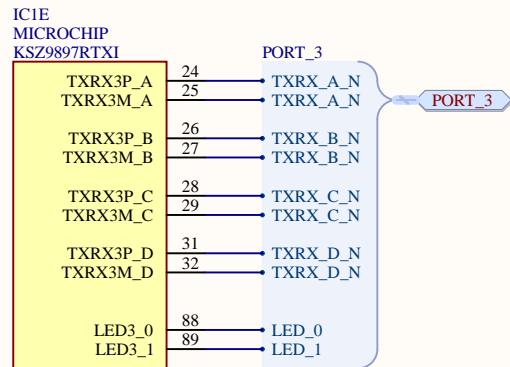
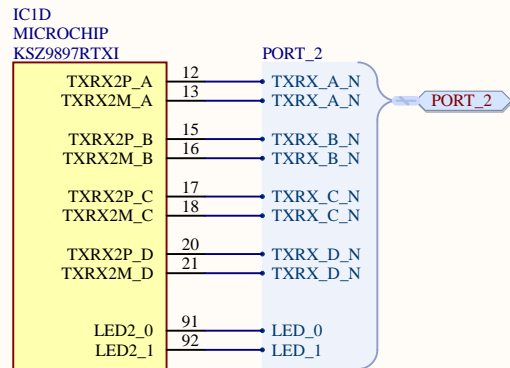
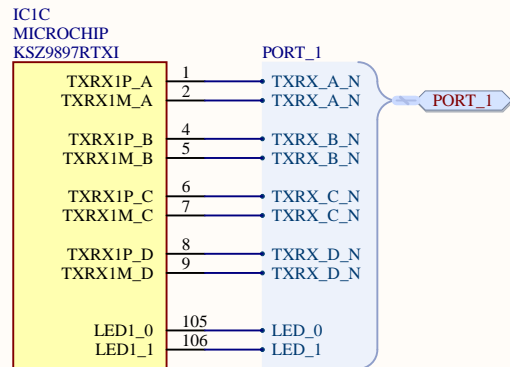


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[LINK: KSZ9897 Main Page](#)

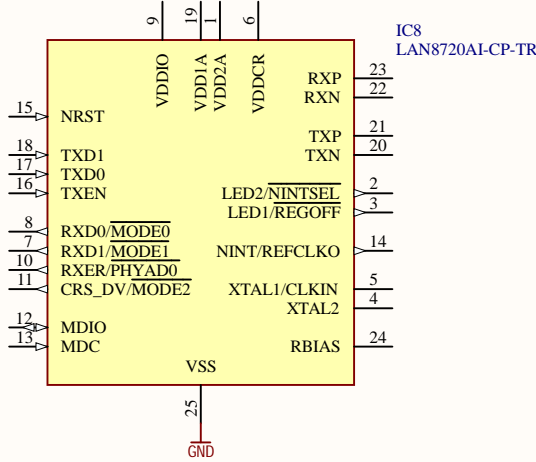


Power Supply:
- POE: 100W, 48V -> LRS-100-48
- SWITCH: 1RM-15-5 (230VAC)
48VDC?

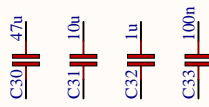


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[LINK: LAN8720A Main Page](#)
[LINK: LAN8720 Schematic Checklist](#)
[LINK: LAN8720 Routing Checklist](#)

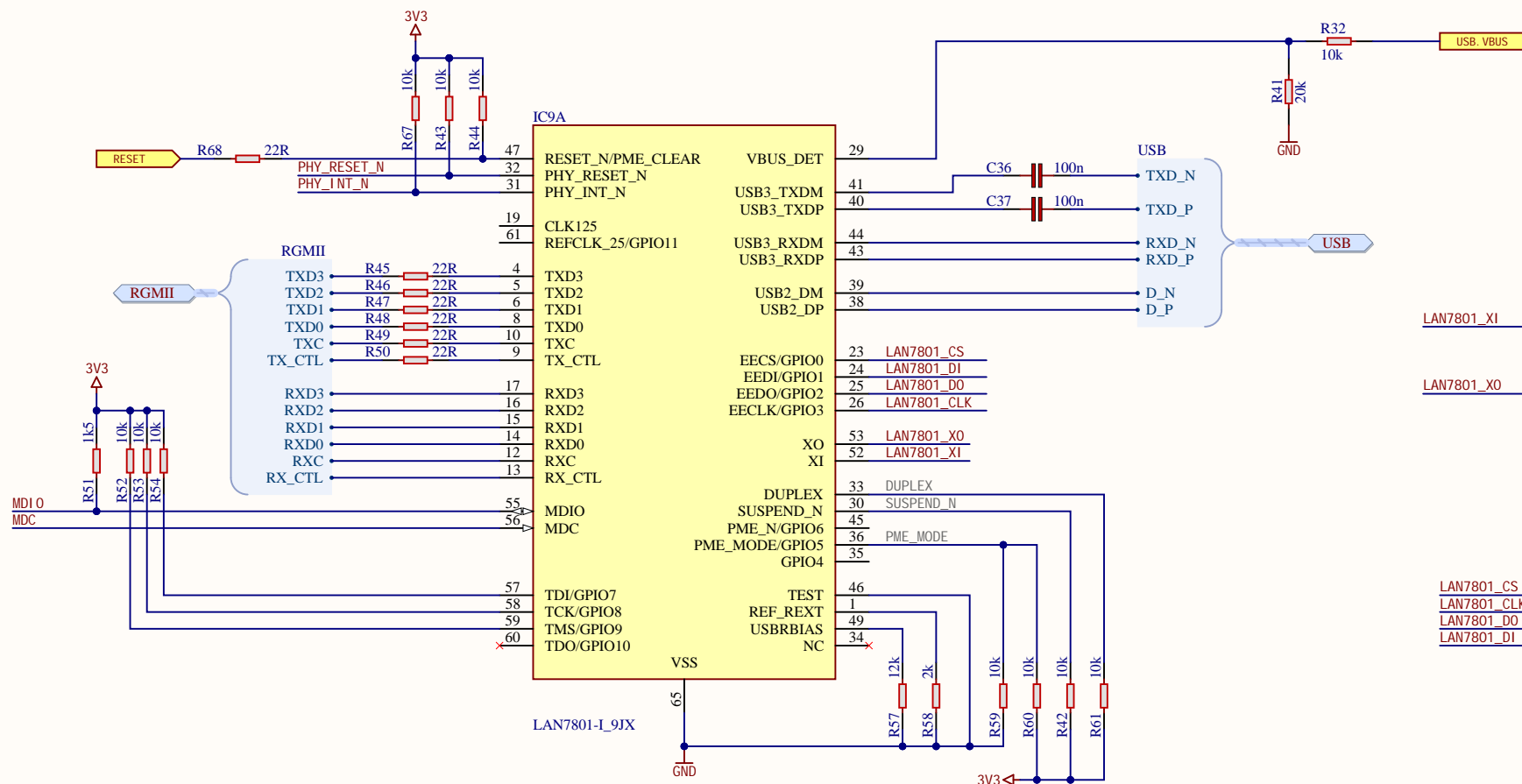


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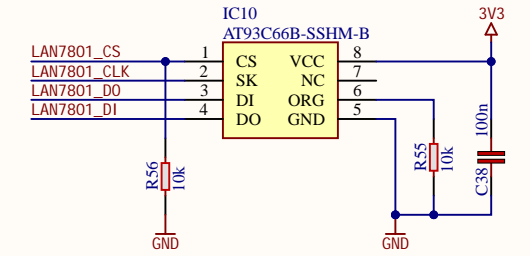
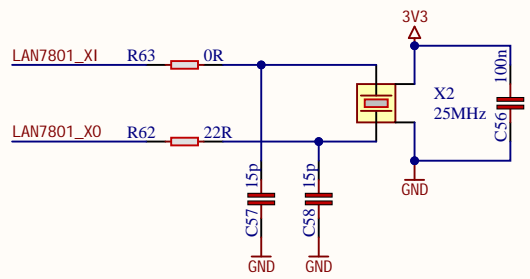


[LINK: LAN7801 Main Page](#)
[LINK: LAN7801 Schematic Checklist](#)
[LINK: LAN7801 Placement Checklist](#)
[LINK: LAN7801 Routing Checklist](#)

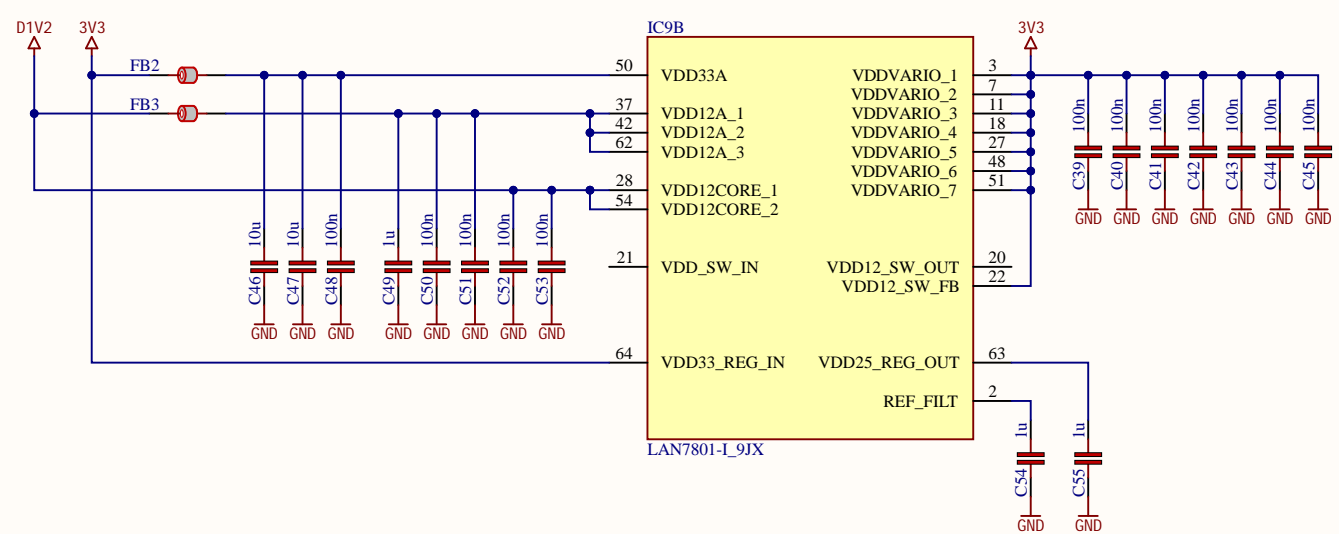
Power Supply Requ.:
- VDDVAR10 (+1.62 V to +3.63 V):
- VDD33A (+2.97 V to +3.63 V):
- VDD12A (+1.1 V to +1.26 V):
- VDD12CORE (+1.1 V to +1.26 V):



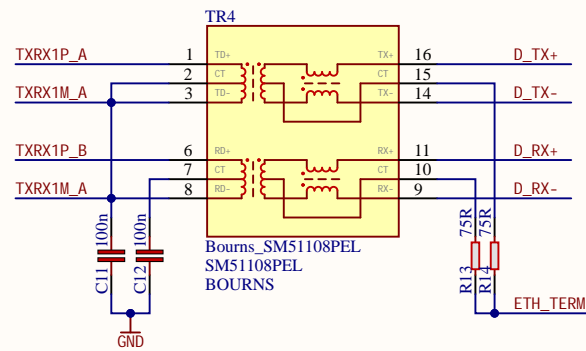
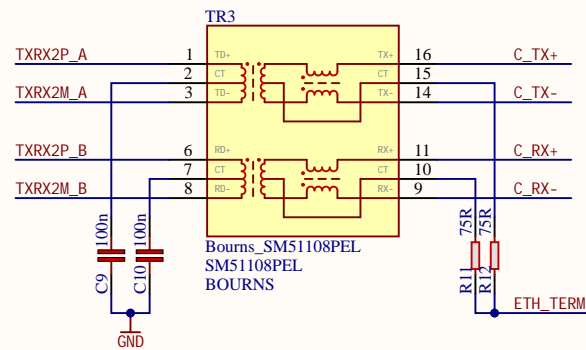
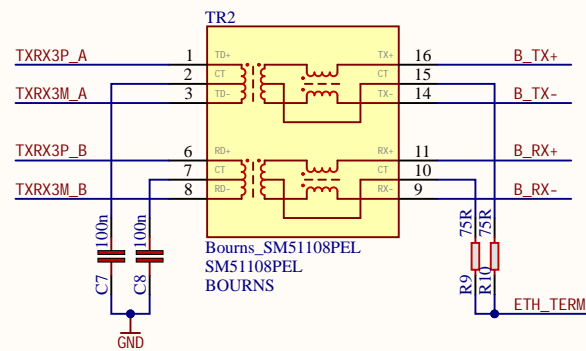
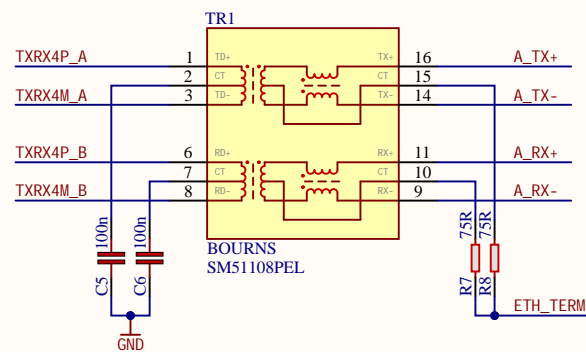
CLK option: 3.2 x 2.5 mm
- XTAL: X1E000021035200
- OSCILLATOR: ?



PME_MODE:
- 0: normal operation
- 1: PME



Title		
Size	Number	Revision
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Date:	5.26.2020	Sheet of
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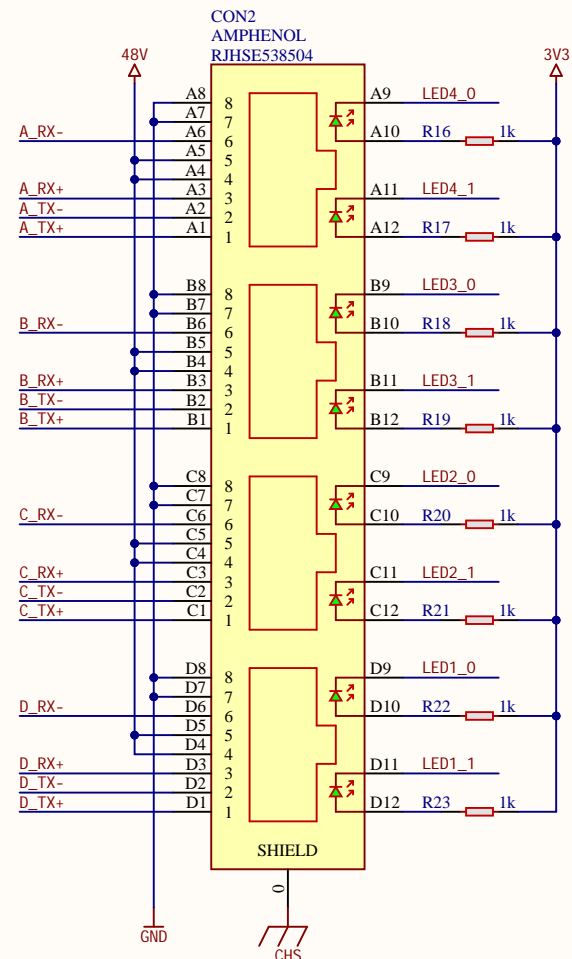
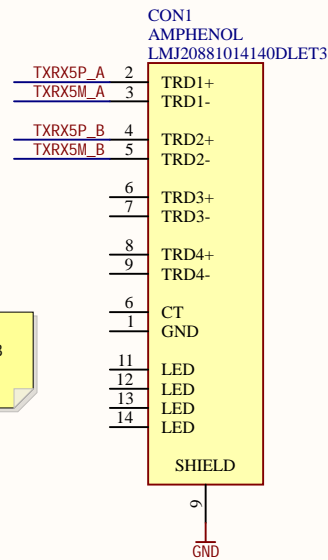
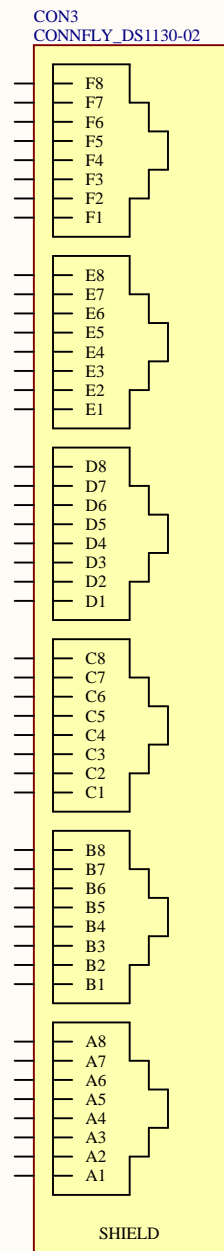


Alternative XFRM:

- HR641680 (LCSC, 72 Ft)
- 11FB-05NL (POE, LCSC, 90 Ft)
- BT16B41PP (POE+, LCSC, 100 Ft)
- 15FB-41GNL (4P, POE+, LCSC, 320 Ft)
- QT24A23 (1P, 1000Mbps, LCSC, 192 Ft)

1000Base-T RJ45 connector:

- Amphenol, LMJ20881014140DLET3
- Würth, 7499110124

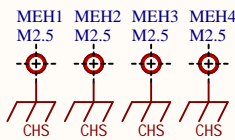


Ethernet Transformer:

- Bourns, SM51108PEL (100Mbps)
- Bourns, SM51589PEL (1Gbps, POE)
- Bourns, SM51625EL (1Gbps, POE+)

100Base-T RJ45 connector:

- Amphenol, LMJ199882X433DL1T0
- Connfly, DS1130-02-S8B8P (6p)
- Connfly, DS1129-02-S80BP (4p)



Title		
Size	Number	Revision
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File:	C:\G\...\Connectors.SchDoc	Drawn By: