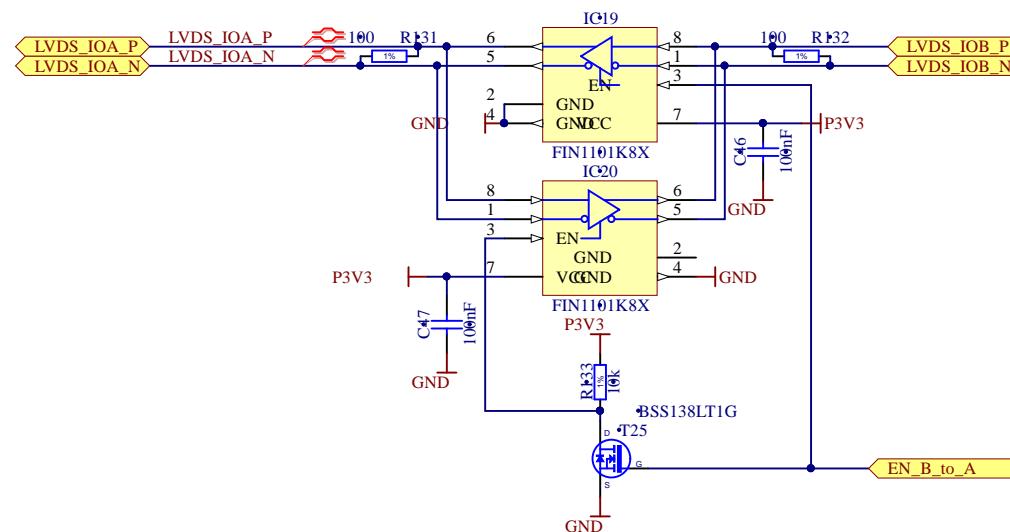


ADD TVS!!!



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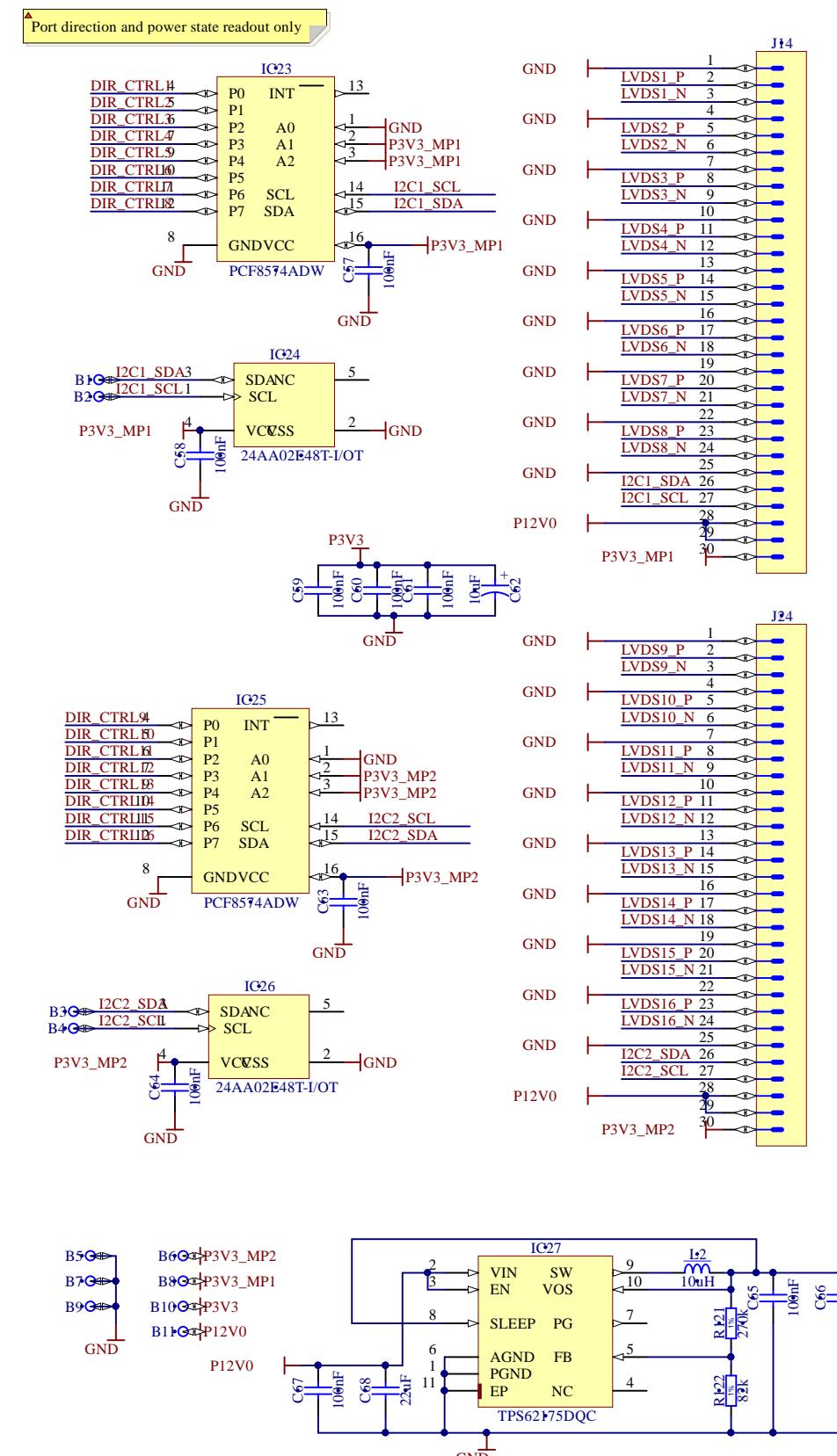
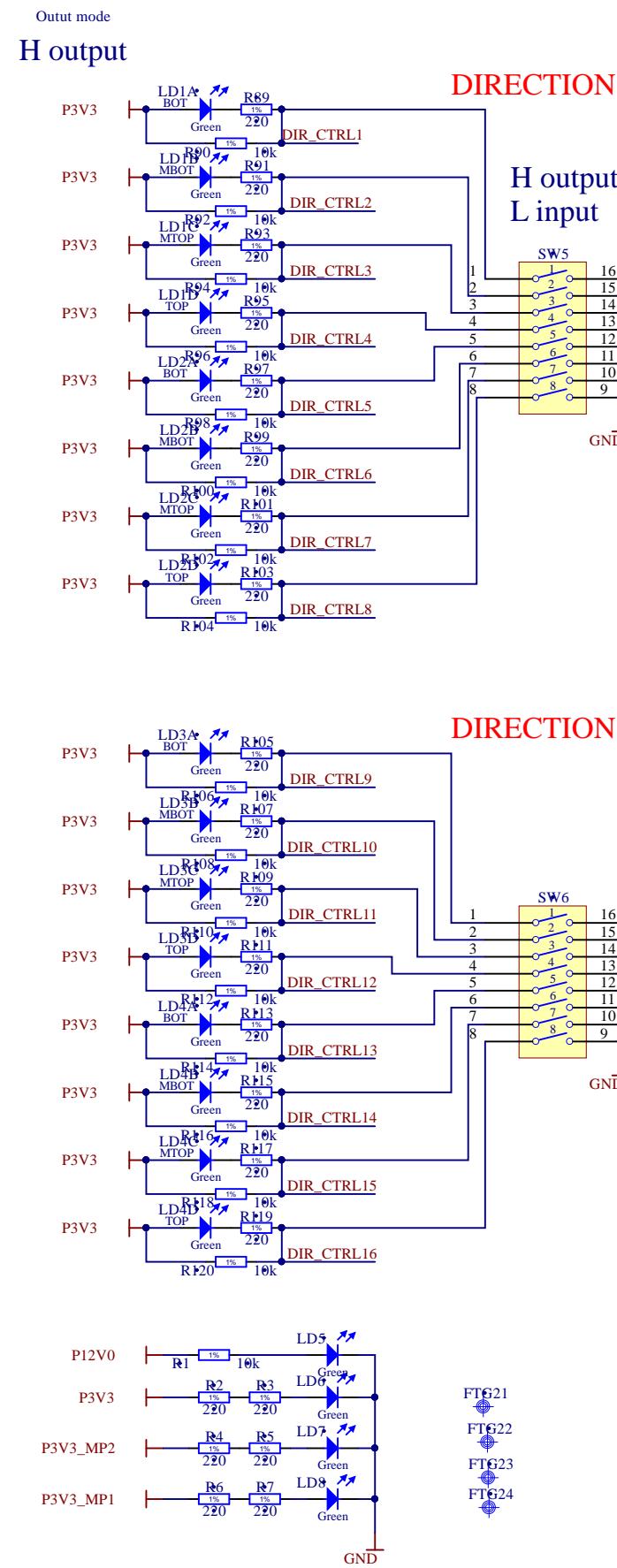
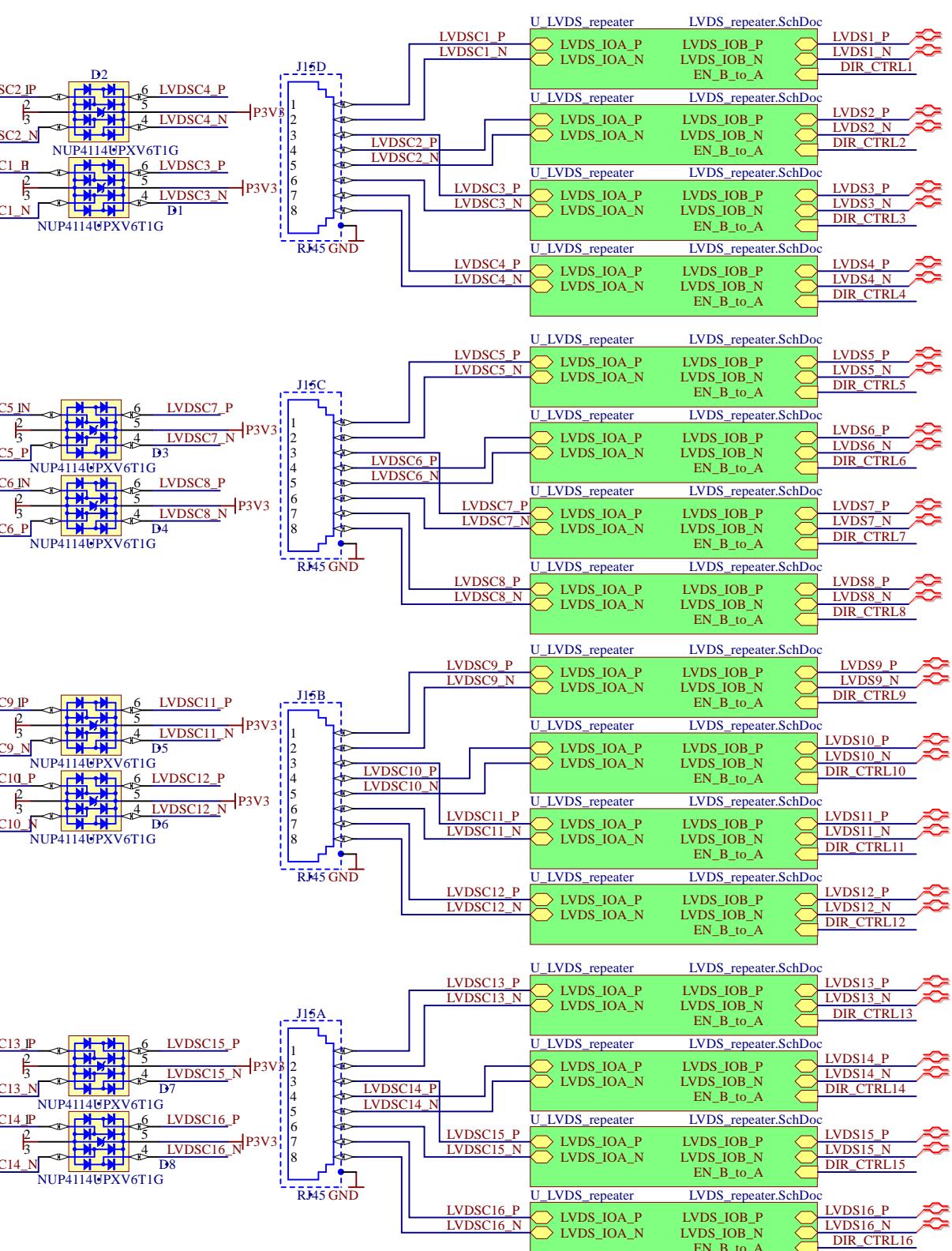
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KASLI 3U subsystem

| | | | |
|---|---------------------------------|---------------|------------|
| Document | Single channel LVDS repeater | | |
| Cannot open file D:\Dropbox\DESIGN\SMTCAs\projects\SI | Designer G.K. | Drawn by G.K. | XX/XX/XXXX |
| | Check by - | - | |
| Last Mod. - | 01.03.2017 | | |
| File LVDS_repeater.SchDoc | Print Date 17.07.2017 00:39:27 | Sheet of | |
| | | | |
| Warsaw University of Technology ISE Nowowiejska 15/19 | ARTIQ | Size A3 | Rev - |

ADD TVS!!!

This module connects to Kasli or to VHDCI Metlino breakout board
All signals are LVDS, in case of Metlino VCC is 1.8V
I2C is 3.3V LVCMS
P3V3_MP can handle up to 20mA
P12V0 current is up to 500mA



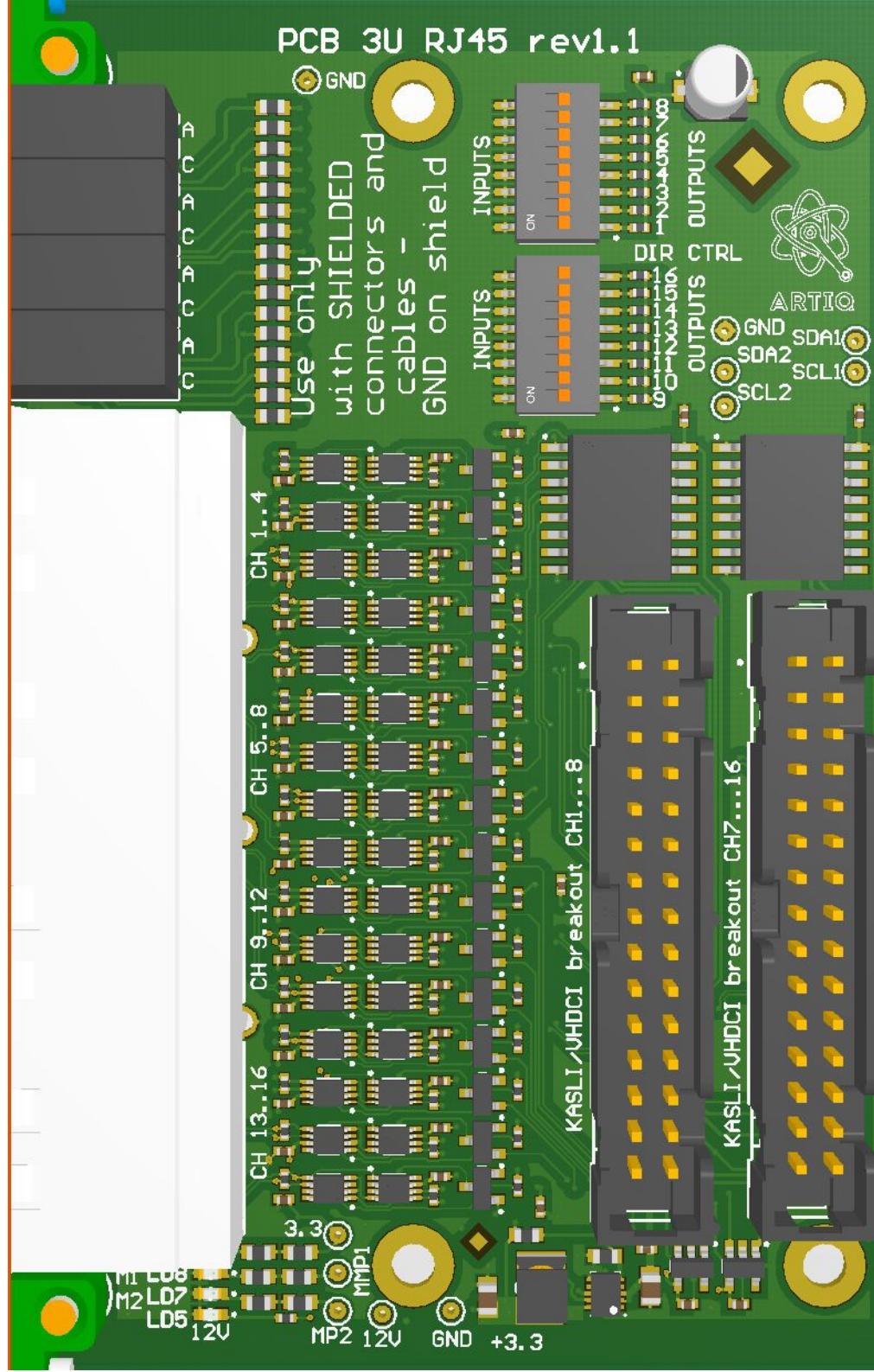
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KASLI 3U subsystem

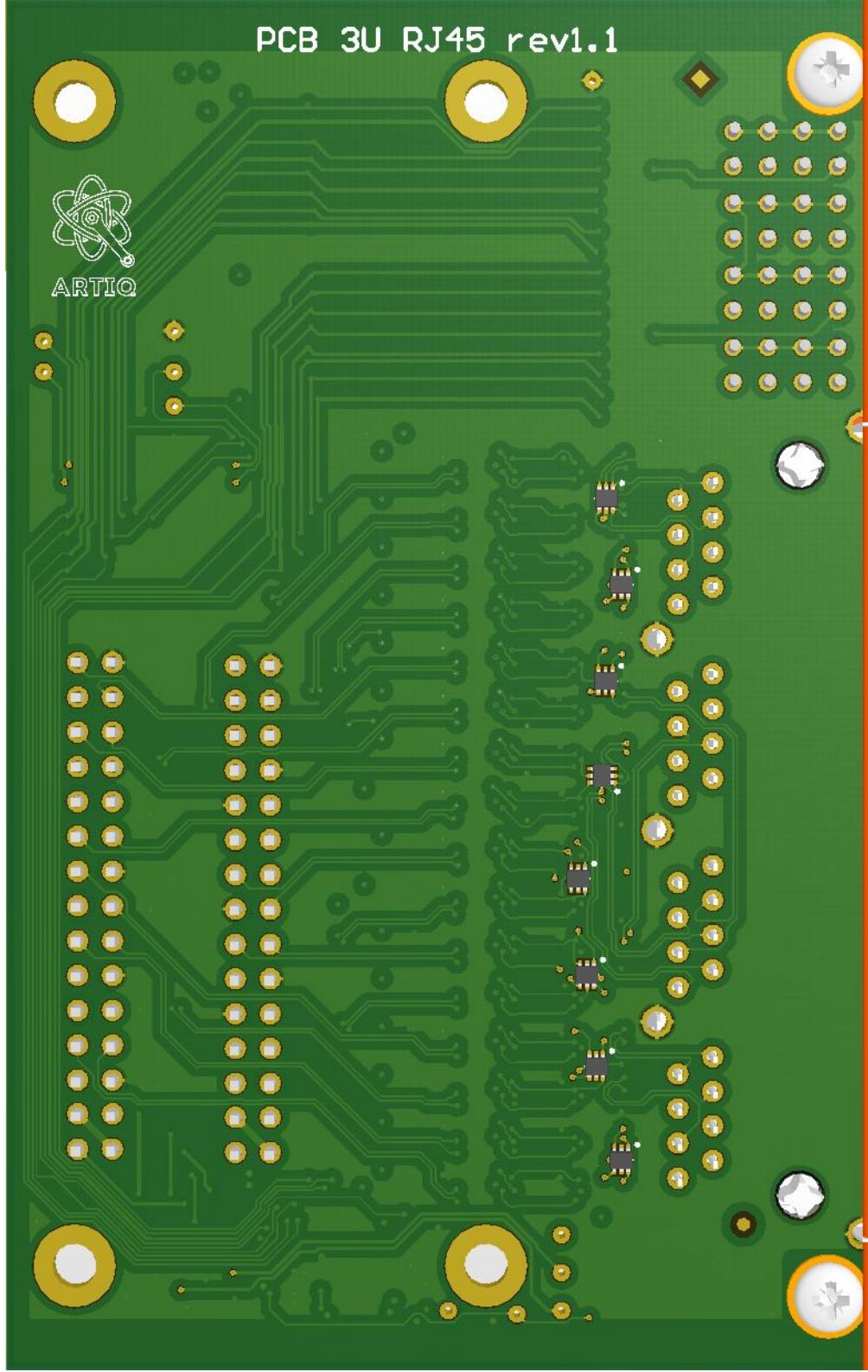
| Project/Equipment | 3U RJ45 Extension board | Designer G.K. |
|--|---|---------------|
| Document | Drawn by G.K. | XX/XX/XXXX |
| Cannot open file D:\Dropbox\DESIGN\SMTCA projects\SI | Check-by | - |
| | Last Mod. | 14.07.2017 |
| | File PCB_3U_RJ45.schdoc | |
| | Print Date 17.07.2017 00:39:27 | Sheet of |
| | Warsaw University of Technology ISE Nowowiejska 15/19 | Size A3 Rev - |

3U RJ45 Extension board

PCB 3U RJ45 rev1.1



PCB 3U RJ45 rev1.1



PCB 3U RJ45 rev1.1

GND

Use only
with SHIELDED
connectors and
cables -
GND on shield

INPUTS



DIR
DATA45678
DATA12345678
CTRL
OUTPUTS []



ARTIQ

GND

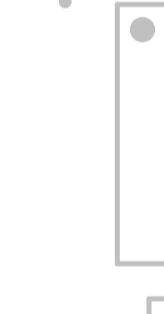
SDA1

SDA2

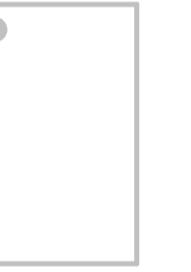
SCL1

SCL2

INPUTS

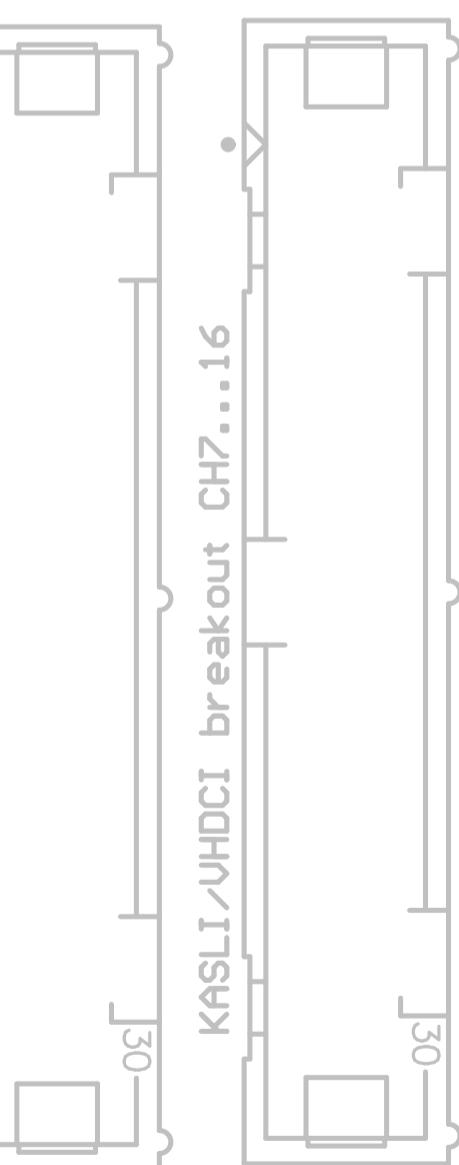


DATA45678
DATA12345678
CTRL
OUTPUTS []



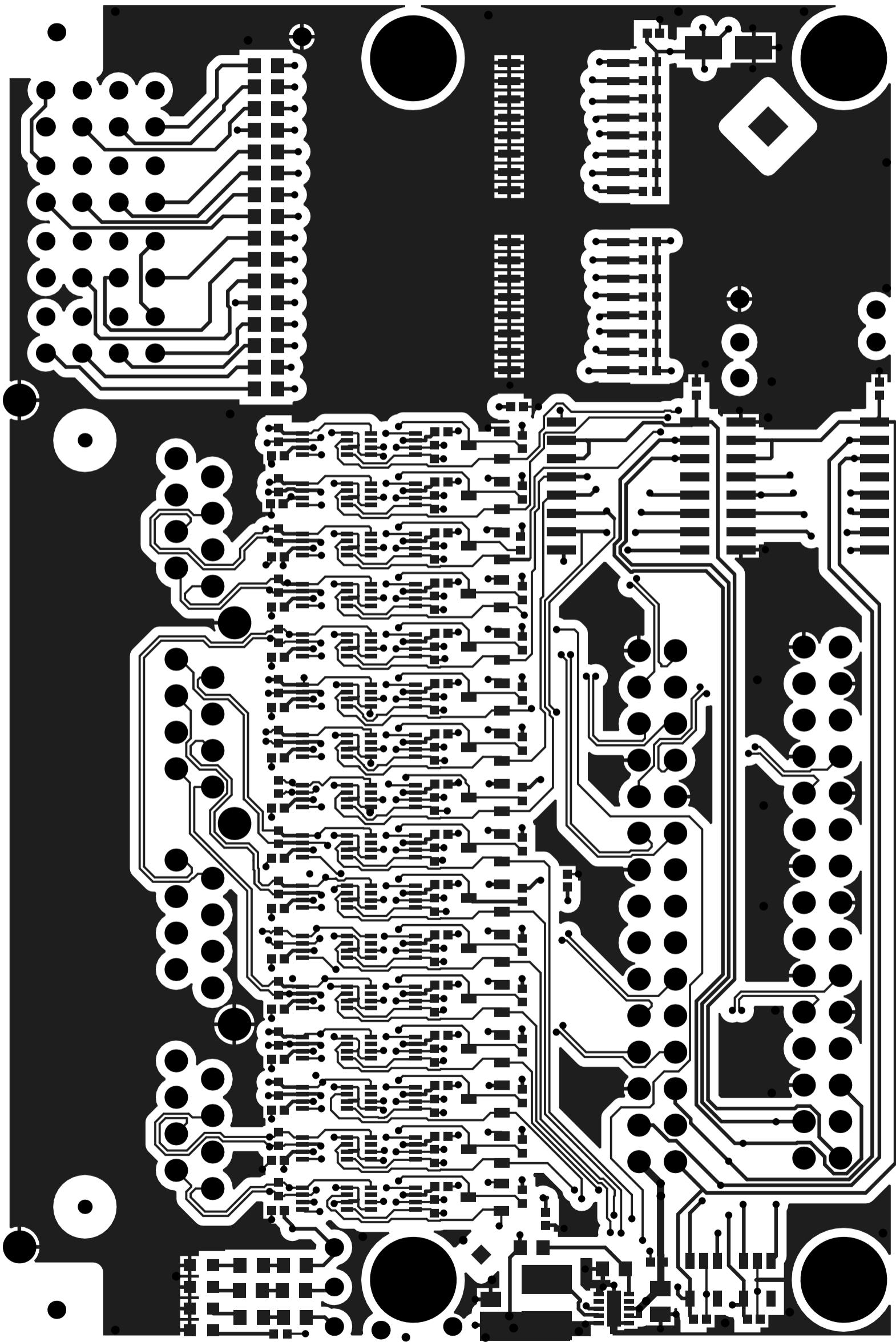
KASLI/VHDCI breakout CH1...8

+3.3

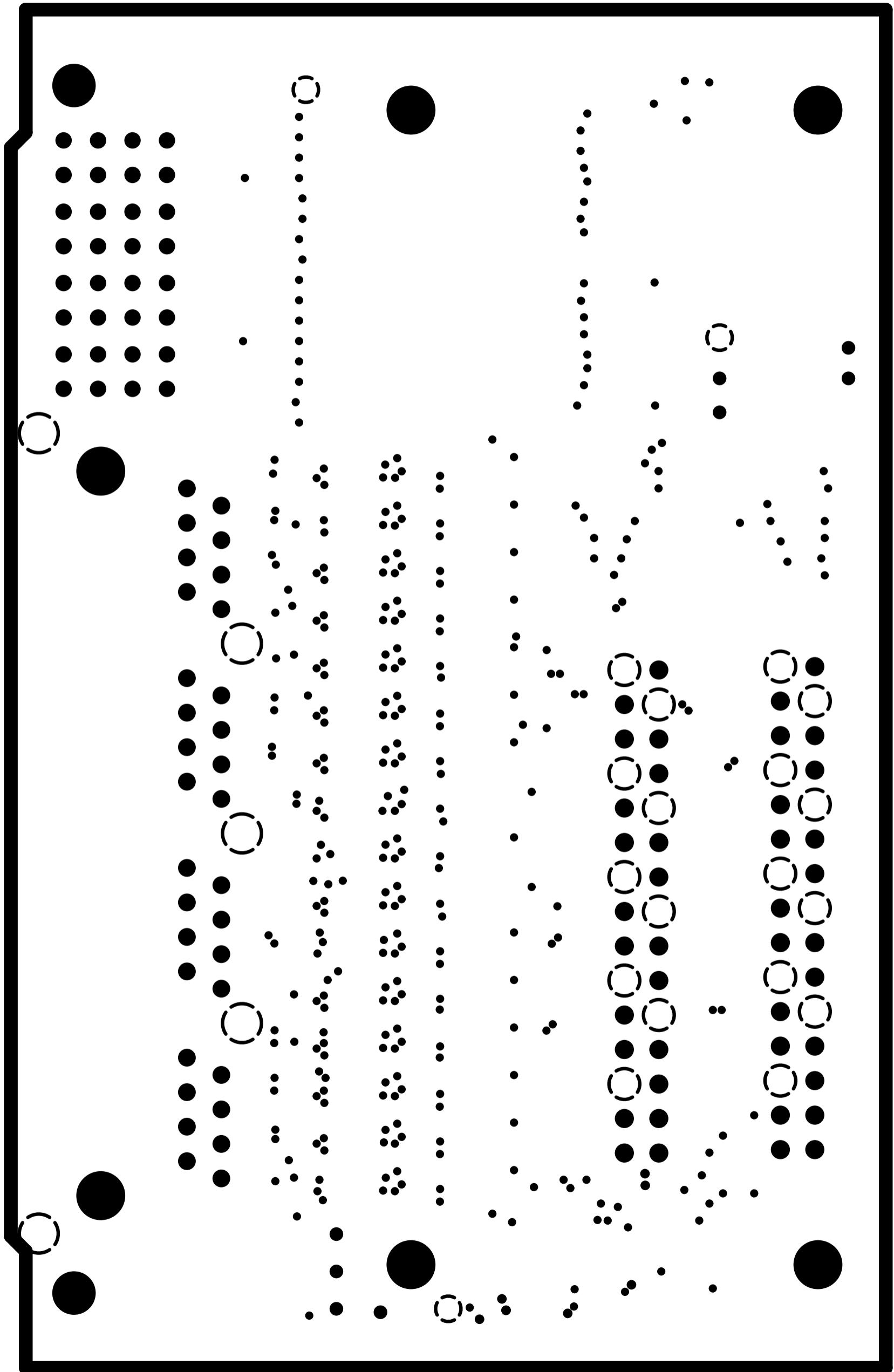


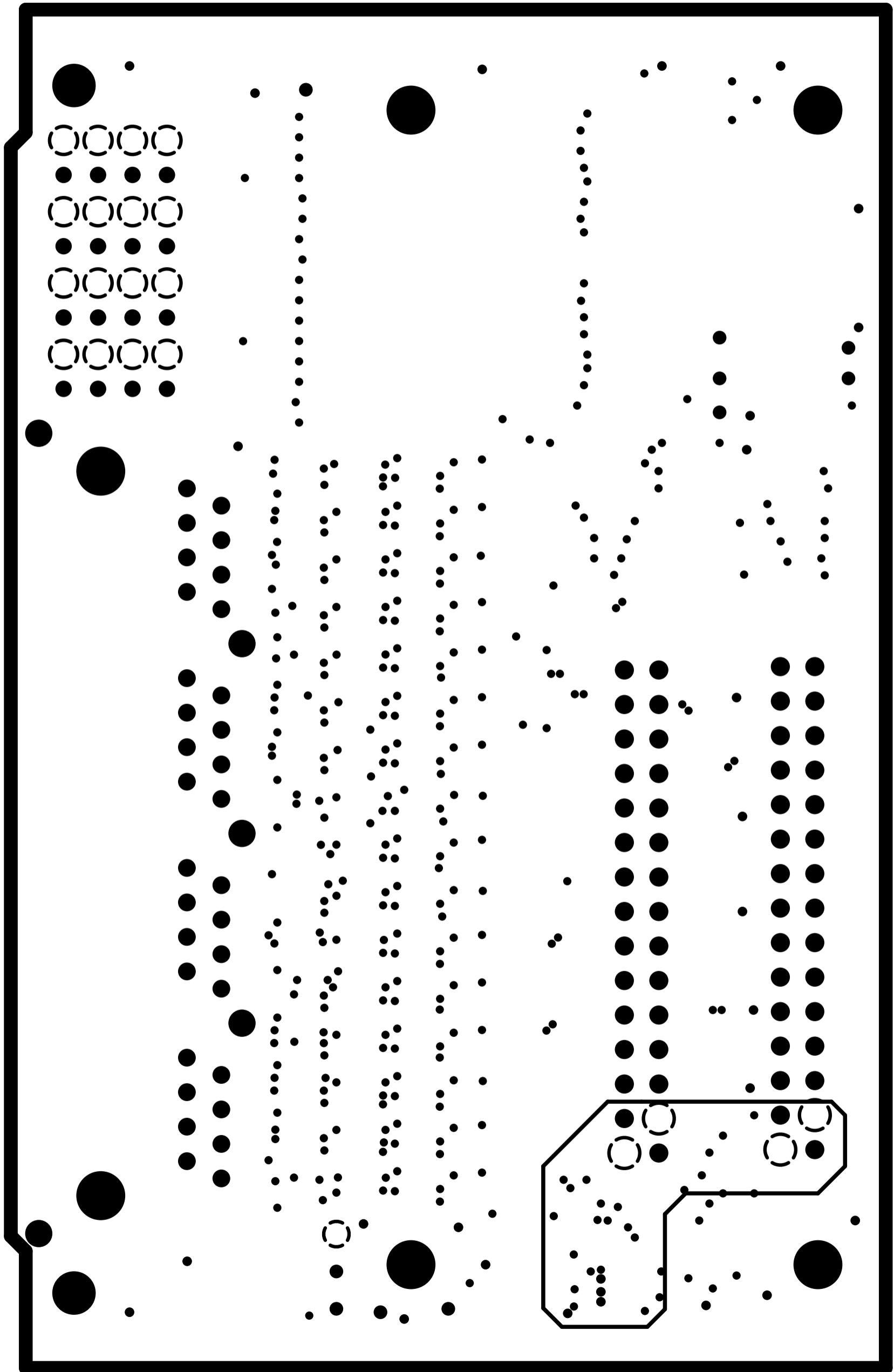
3.3V LD6
M1 LD8
M2 LD7
LD5
12V

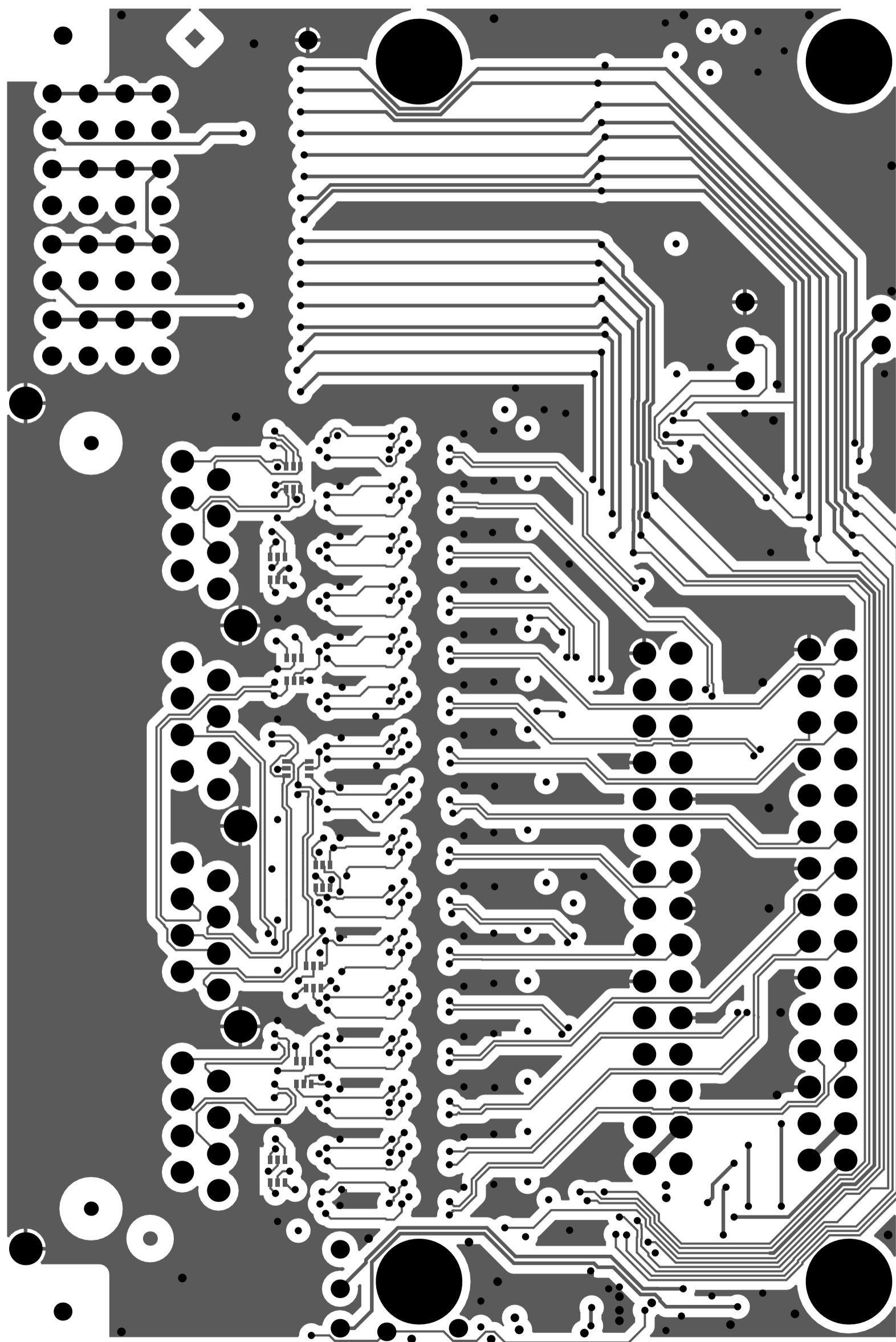
MP1
MP2
12V



| Layer | Name | Material | Thickness | Constant | Board Layer Stack |
|-------|------------------|---------------|-----------|----------|-------------------|
| 1 | TopOverlay | | | | |
| 2 | TopSolder | Solder Resist | 2.09mil | 3.5 | |
| 3 | TopLayer | Copper | 1.40mil | | |
| 4 | Dielectric1 | FR-4 | 14.17mil | 4.8 | |
| 5 | Internal Plane 2 | Copper | 1.42mil | | |
| 6 | Dielectric 4 | | 23.62mil | 4.2 | |
| 7 | Internal Plane 1 | Copper | 1.42mil | | |
| 8 | Dielectric2 | FR-4 | 14.17mil | 4.2 | |
| 9 | BottomLayer | Copper | 1.40mil | | |
| 10 | BottomSolder | Solder Resist | 2.09mil | 3.5 | |
| 11 | BottomOverlay | | | | |







PCB 3U Rev.1



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