

4C61X1501-2FPG676C

XC6SLX1501-2FPG676C

AFPGA_TDI

AFPGA_TDO

AFPGA_TCK

AFPGA_TMS

C23

G21

A24

F21

TDI

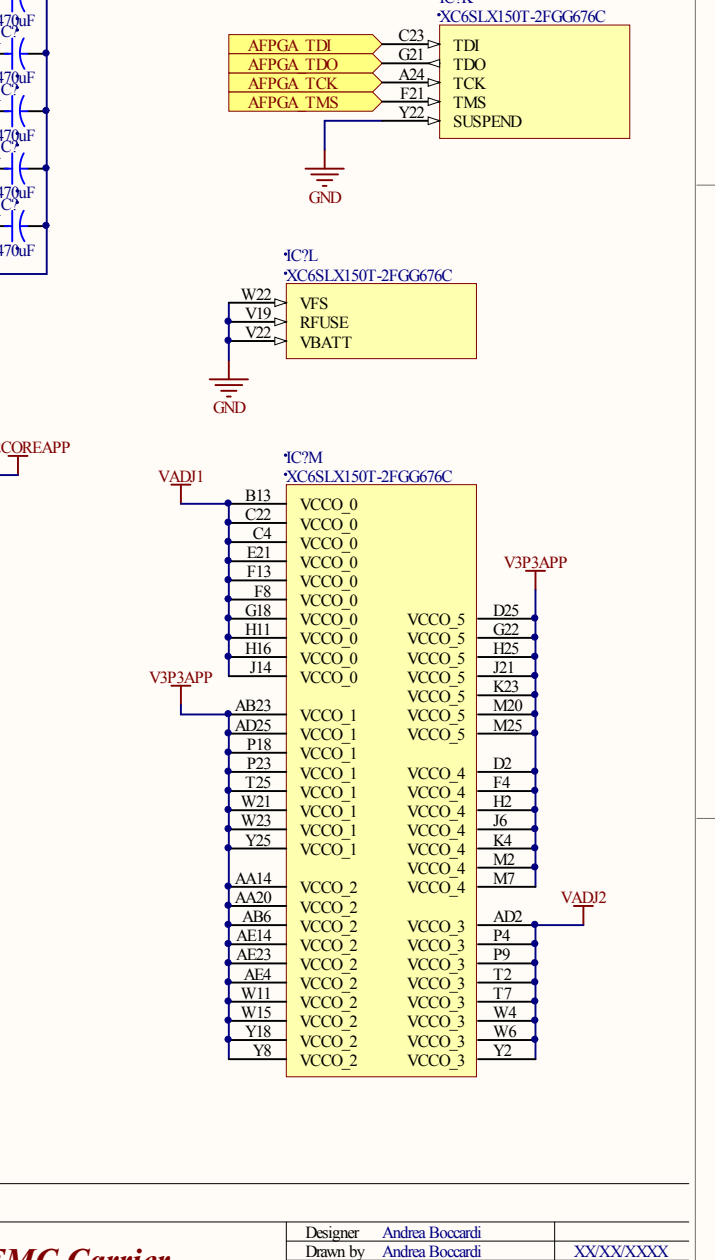
TDO


TCK

TMS

SUSPEND

GROUND

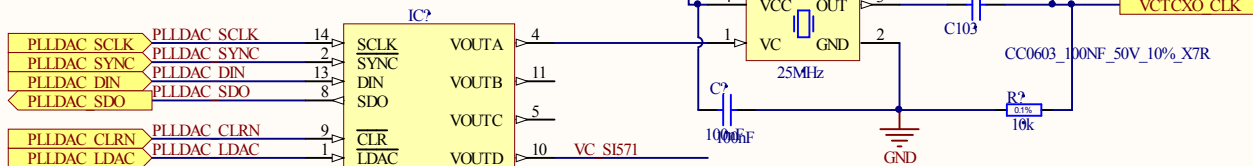


| | | | |
|---|-------------------------|-----------------------|---------------------|
| Project/Equipment | | | |
| Document | | Designer | Andrea Boccardi |
| AB-B1 | VME FMC Carrier | Drawn by | Andrea Boccardi |
|  | Application FPGA | Check by | - |
| | | Last Mod. | 3/4/2010 |
| | | File | AFPGA_SchDoc |
| | | Print Date | 3/5/2010 9:36:54 AM |
| European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland | | Sheet | of |
| | | A2 | Rev |
| | | EDA-XXXXX-VX-X | |

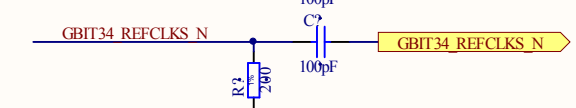
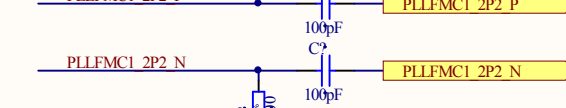
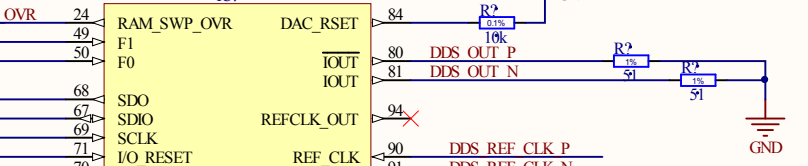
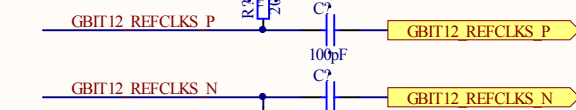
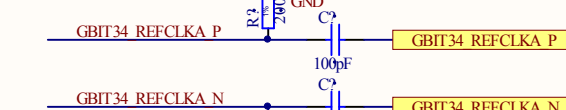
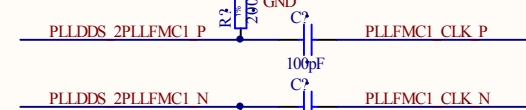
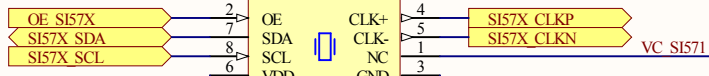
PhaseDetector @ 40MHz

PhaseDetector @ 40MHz

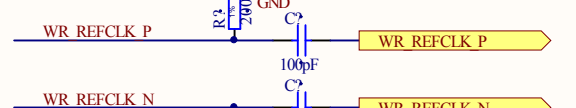
PhaseDetector @ 40MHz

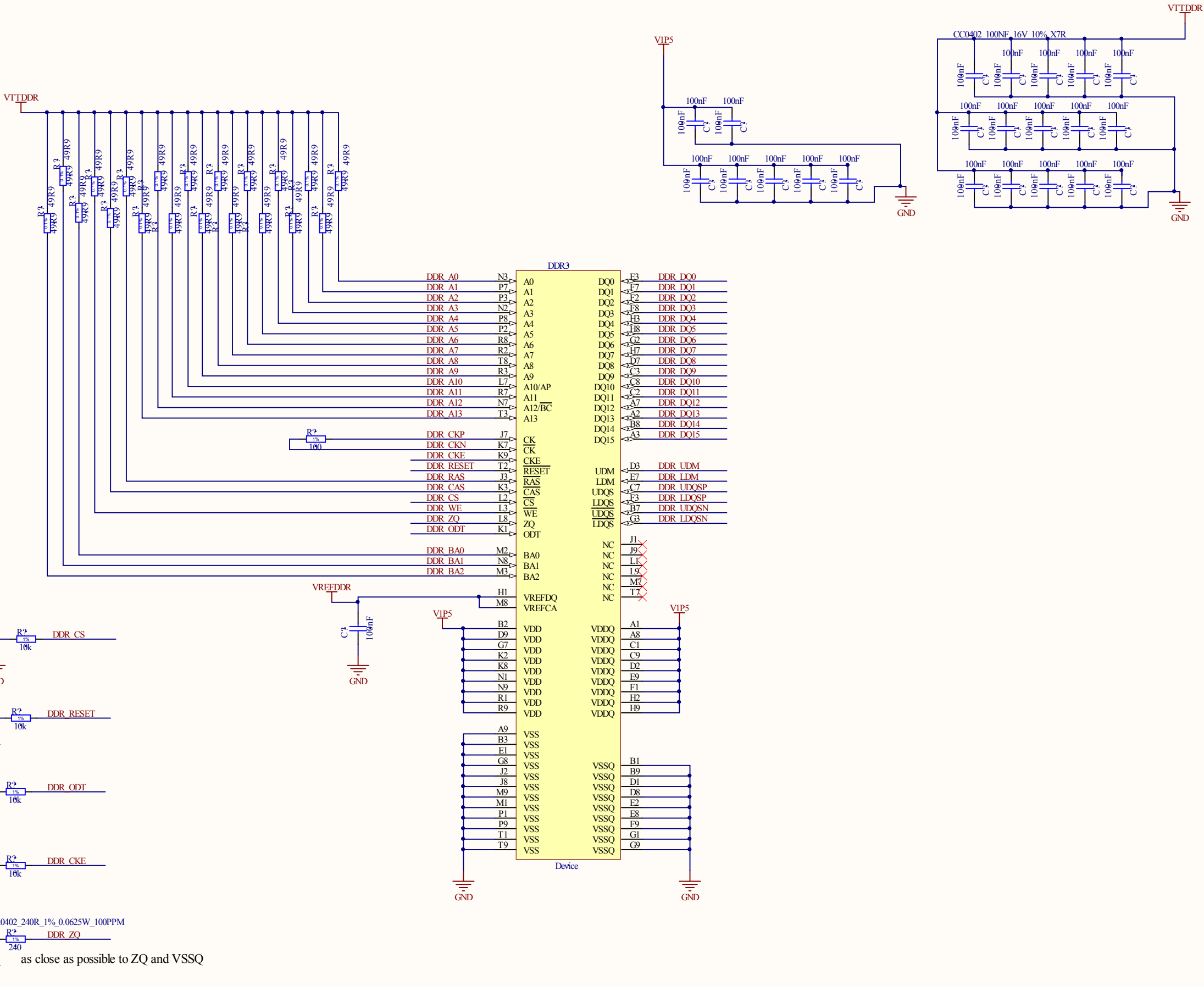
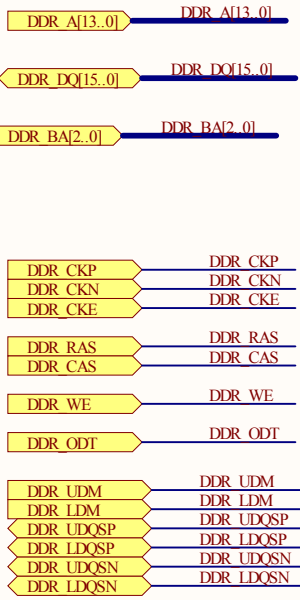


DDS LOOP FILTER

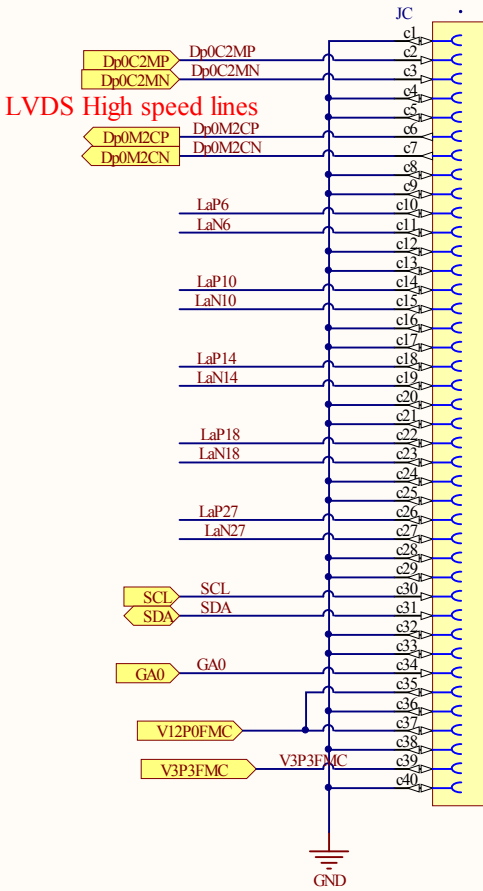
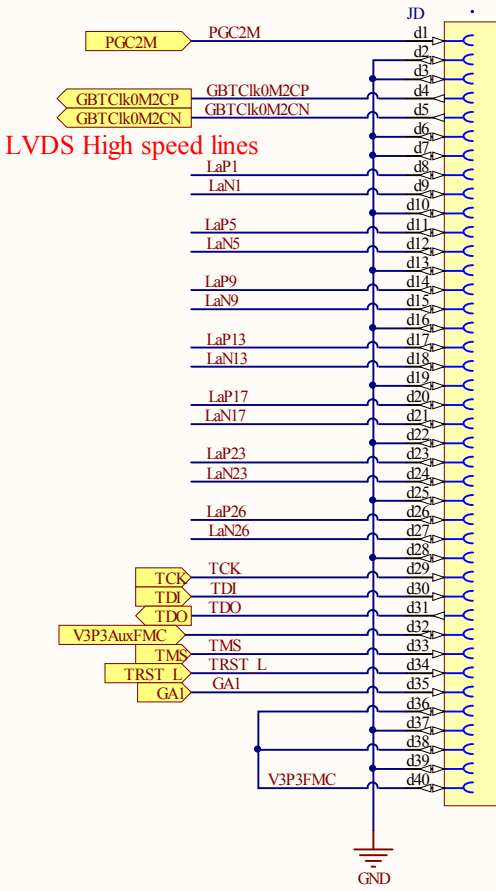
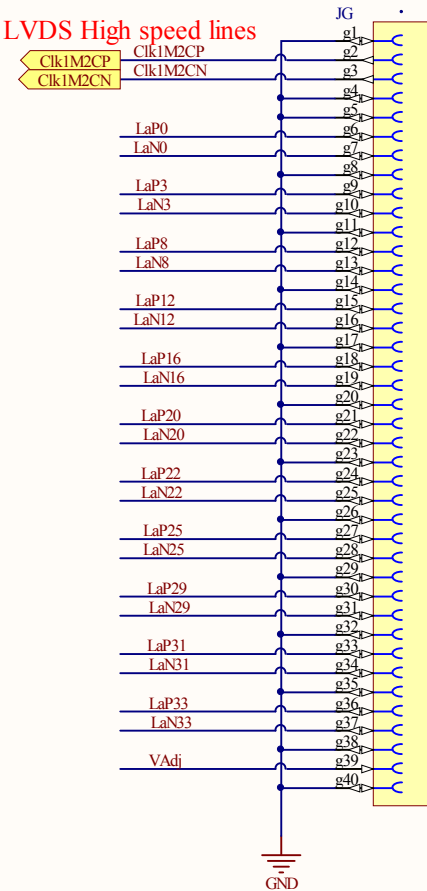
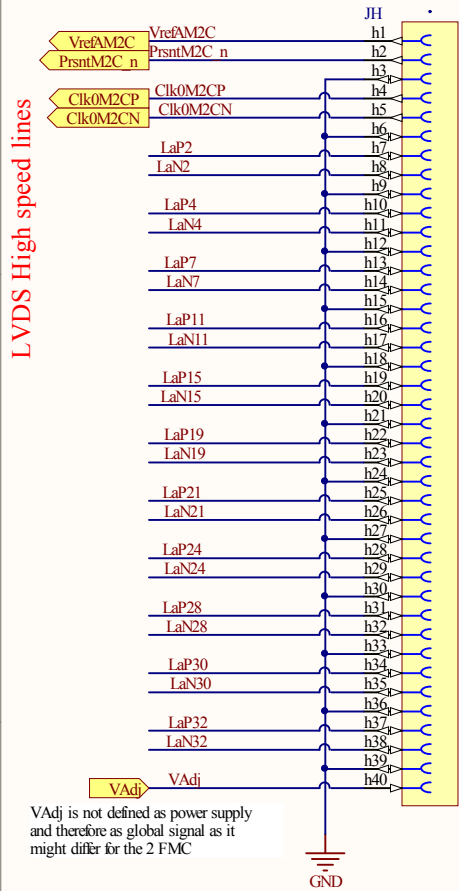


as from page 79 of the AD9516 datasheet

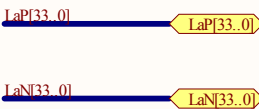




Low Pin Count Rows

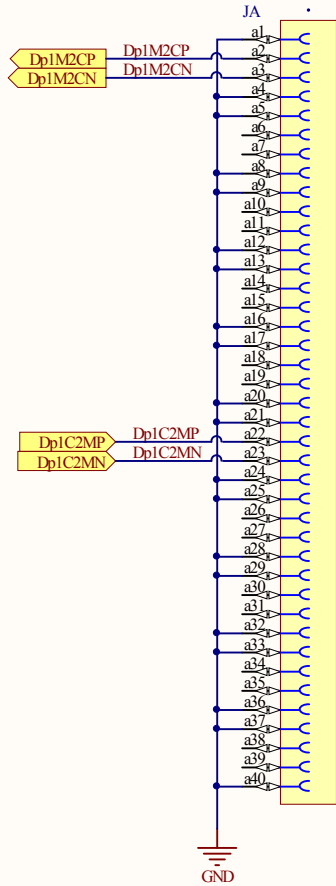
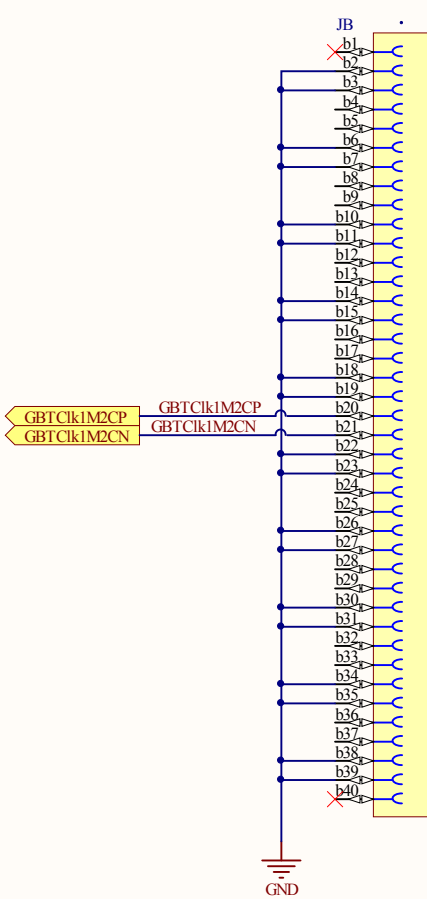
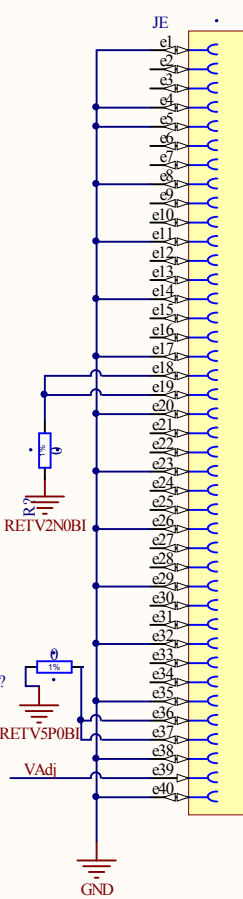
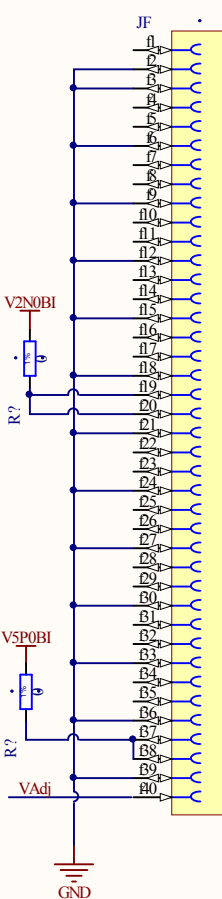
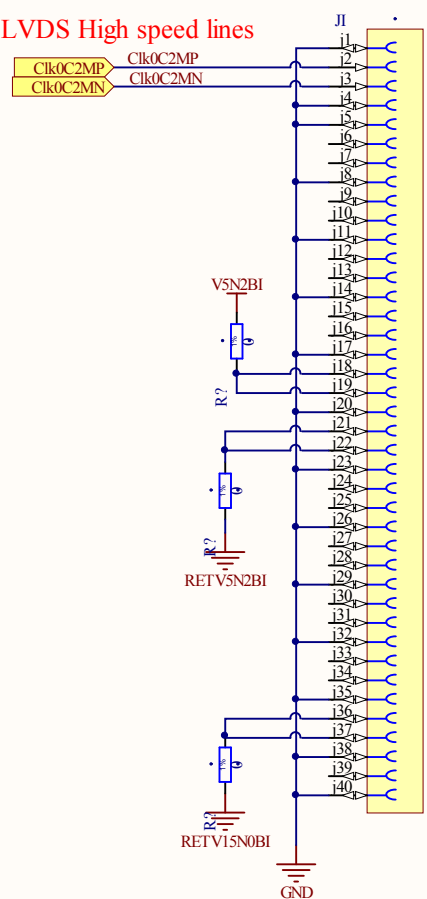
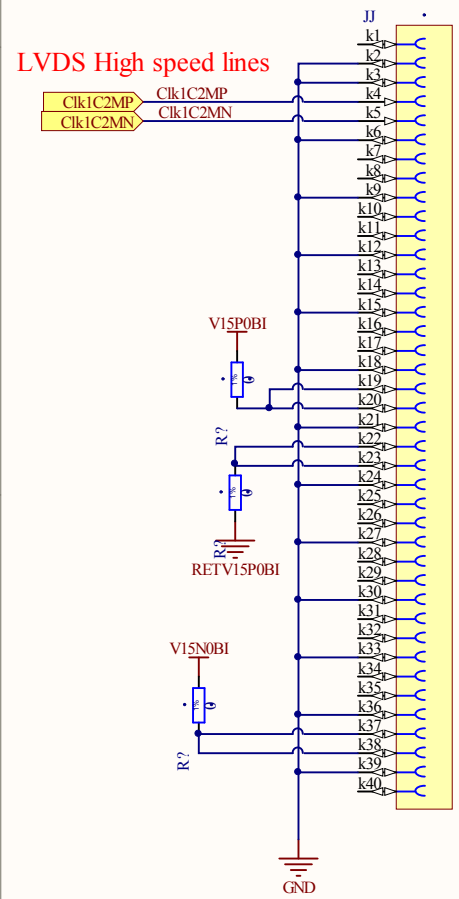


LaP and LaN are LVDS lines

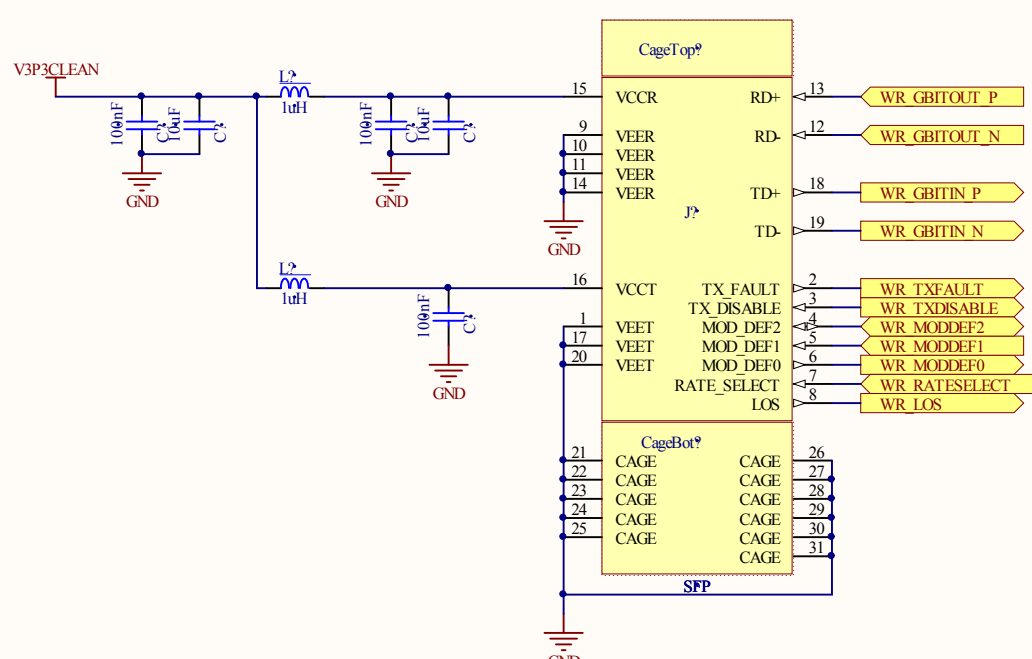
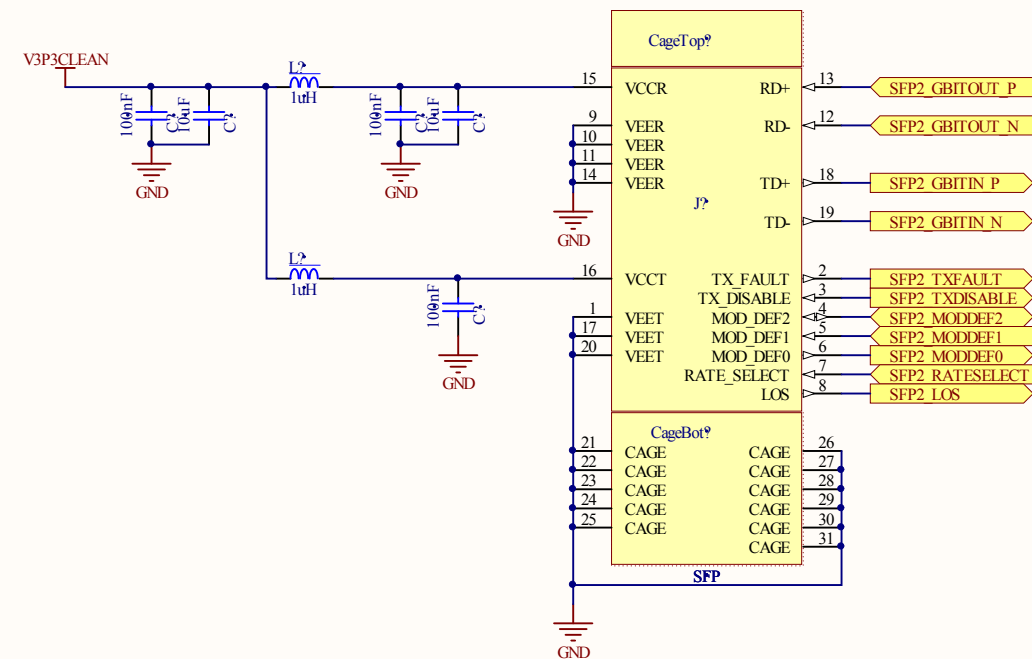
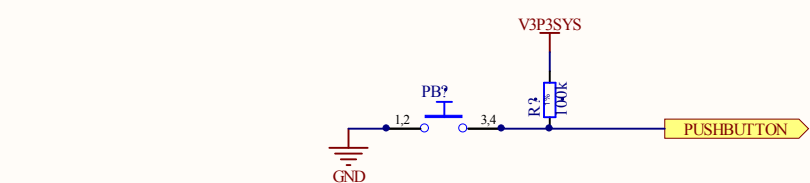


NB: the LVDS pairs must have a differential impedance of 100 ohm and be routed with no skew between the P and the N lines. The skew between the various La pairs should be kept as low as possible.

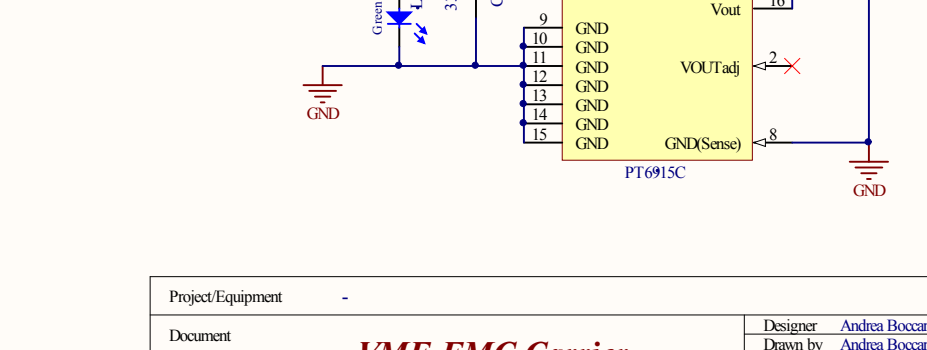
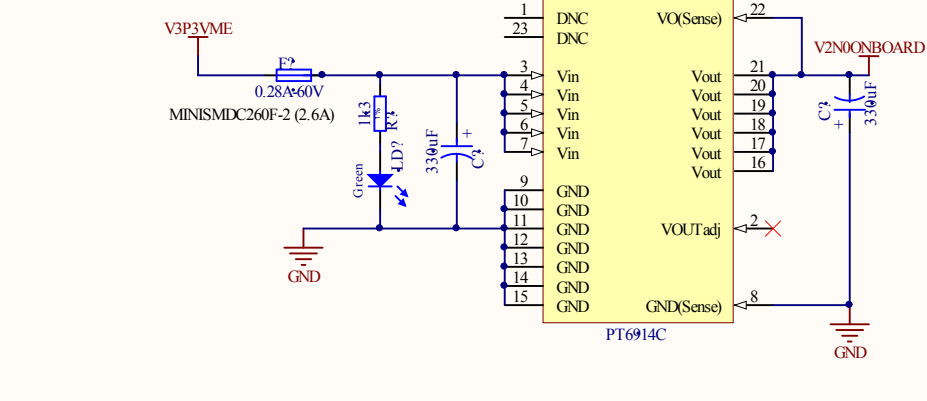
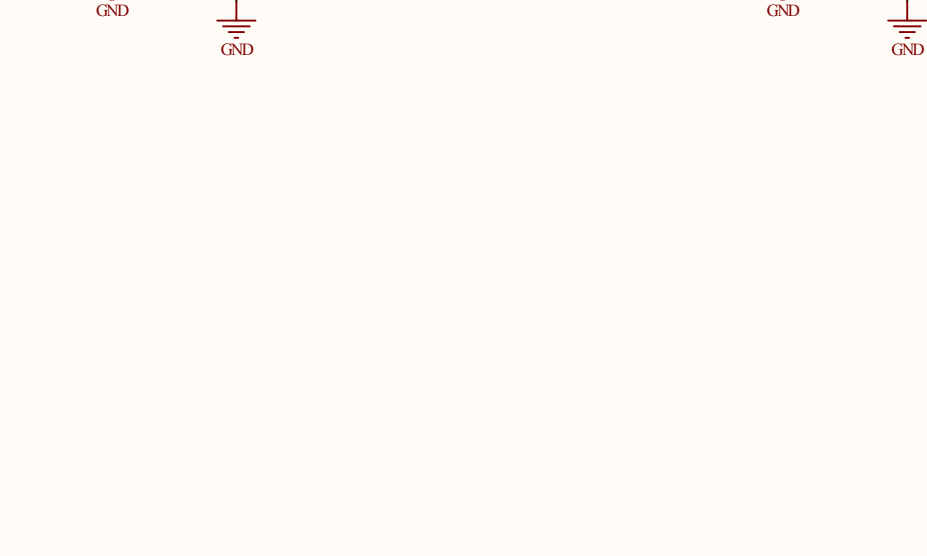
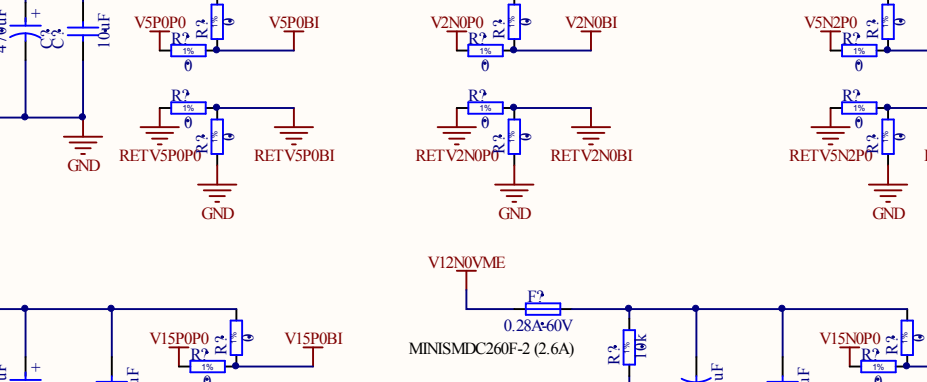
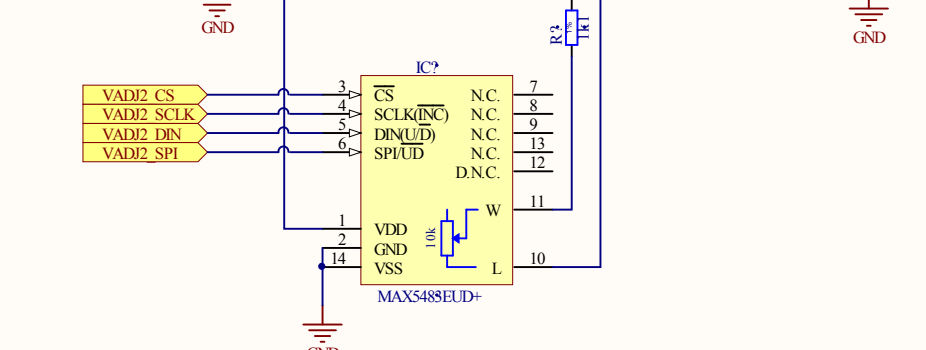
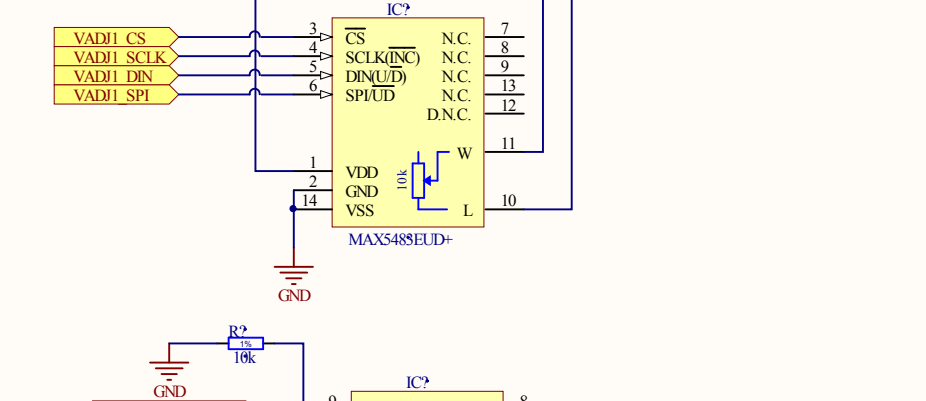
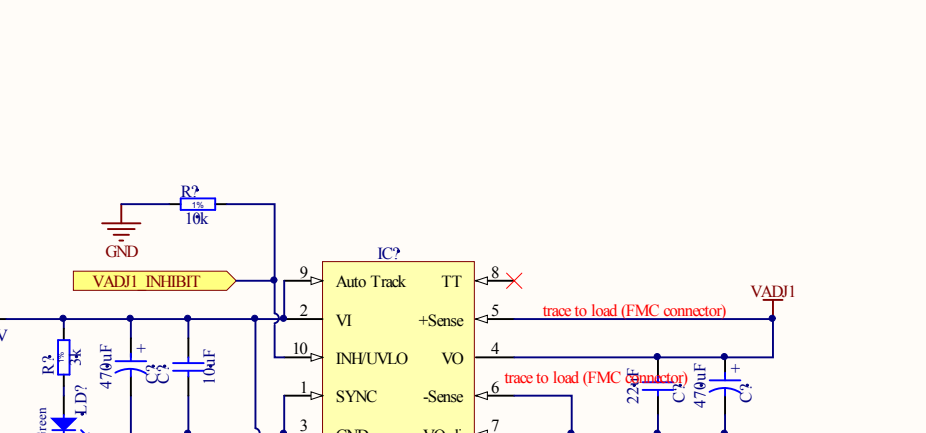
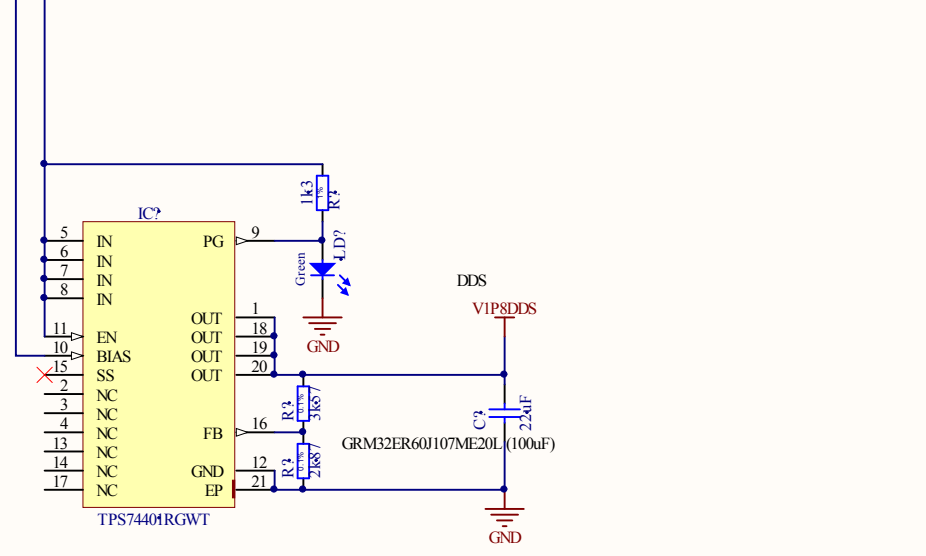
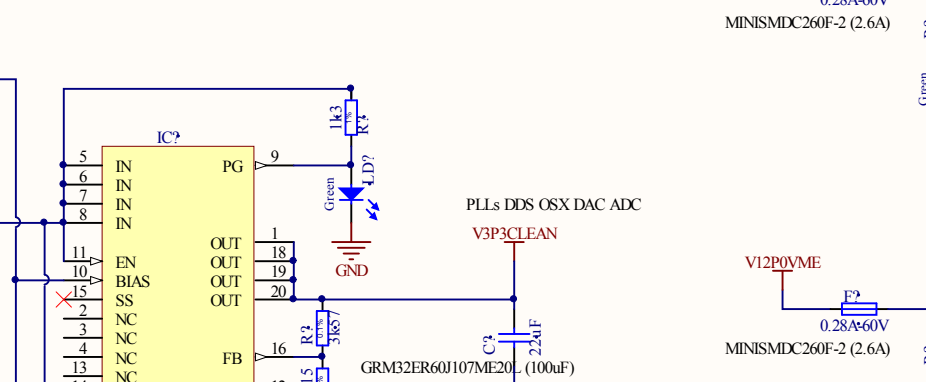
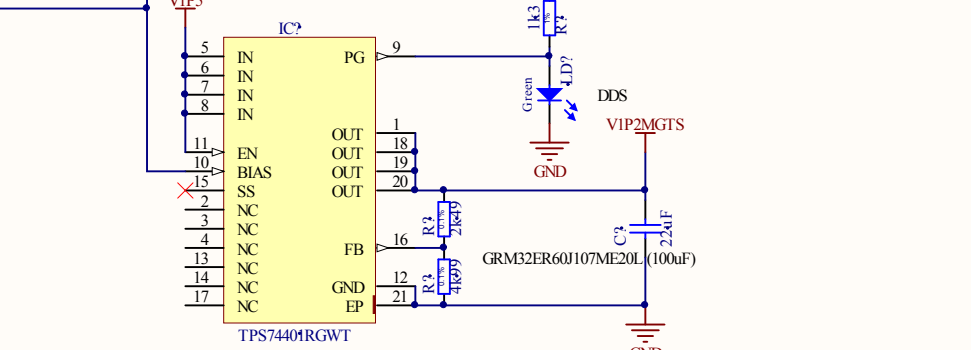
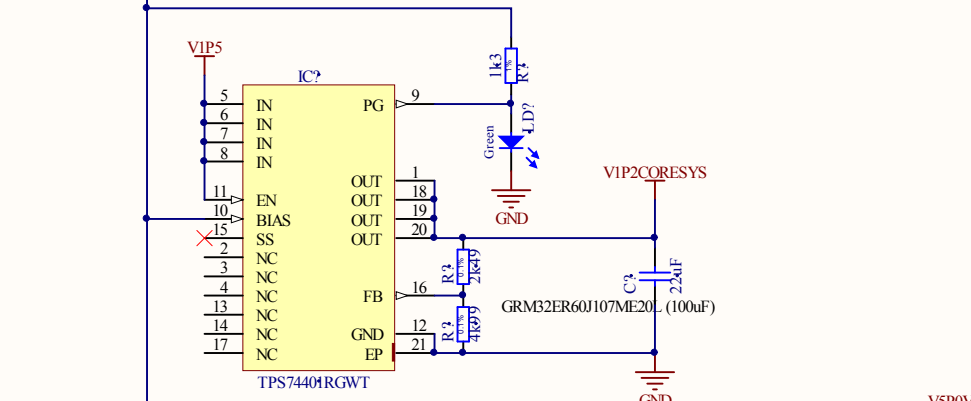
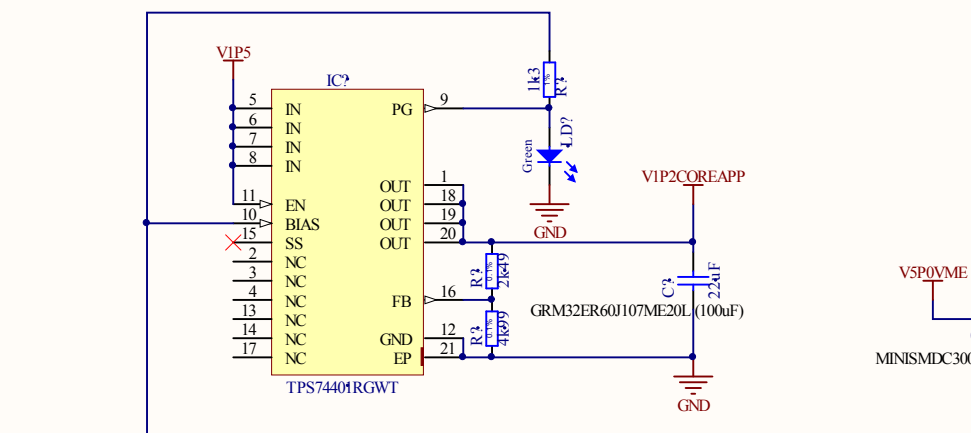
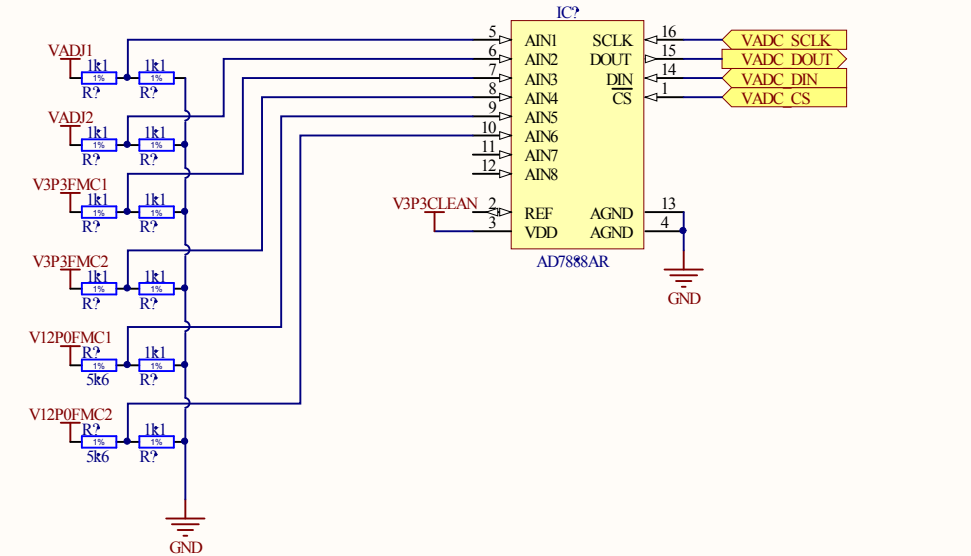
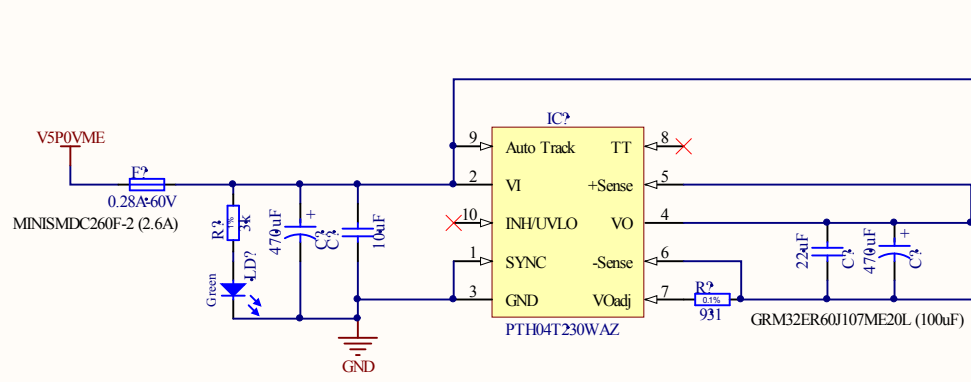
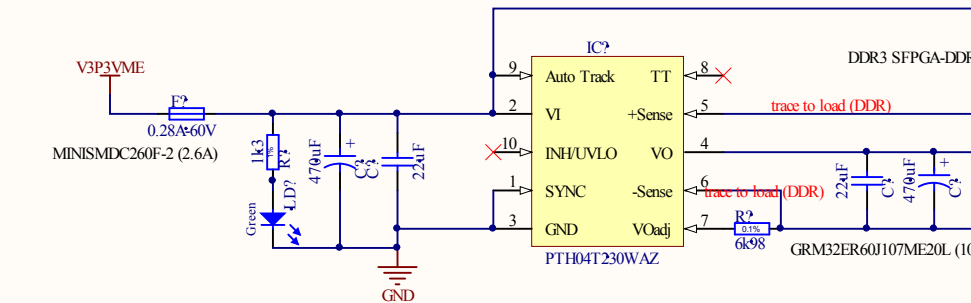
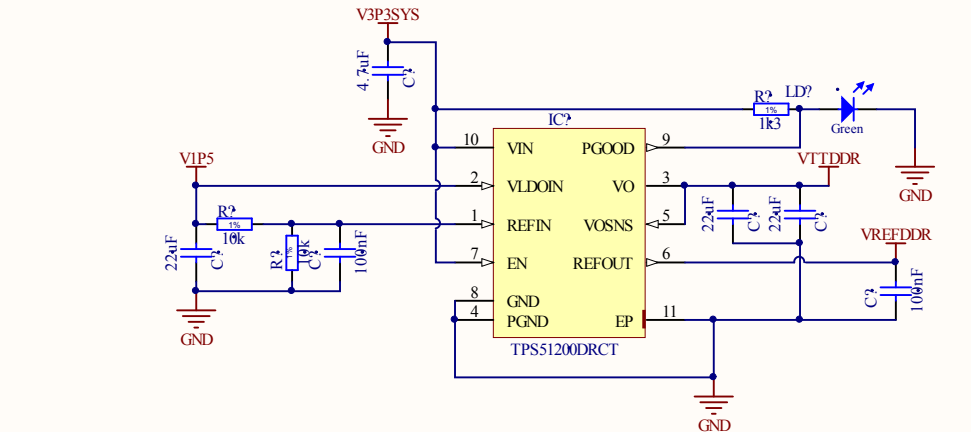
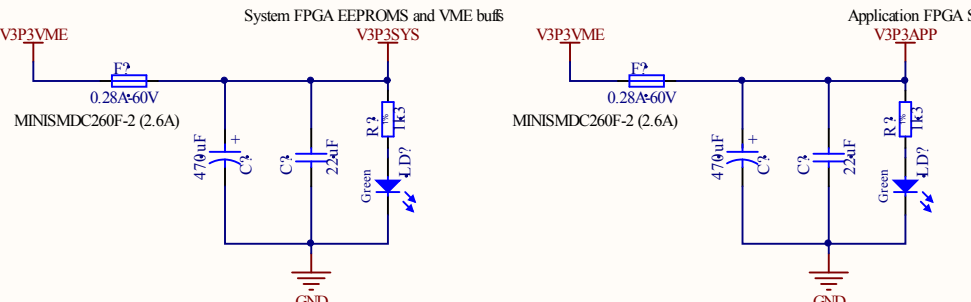
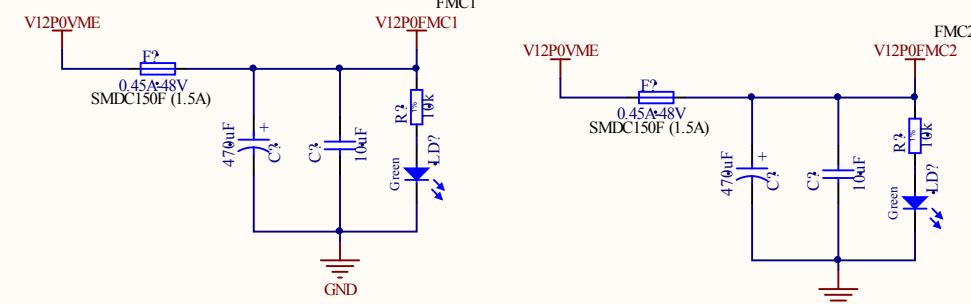
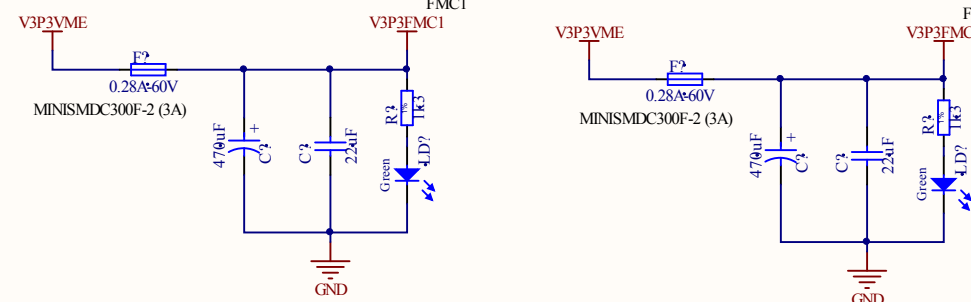
High Pin Count Rows



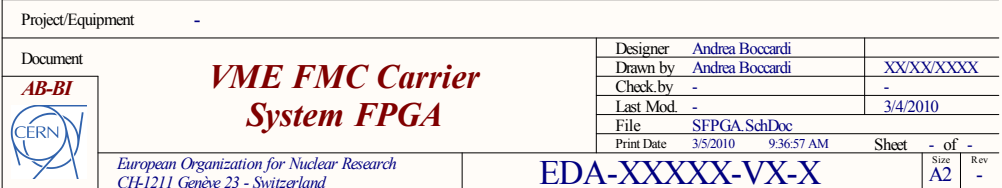
| | | | |
|---|--|------------|---------------------|
| Project/Equipment | | - | |
| Document | | Designer | Andrea Boccardi |
| BE-BI-OP | | Drawn by | Andrea Boccardi |
| | | Check by | - |
| CERN | | Last Mod. | 3/1/2010 |
| | | File | FmcConnector.SchDoc |
| European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland | | Print Date | 3/5/2010 9:36:56 AM |
| | | Sheet | - of - |
| EDA-XXXXX-VX-X | | Size | A3 |
| | | Rev | - |



replace ALL the leds for ROHM - SML-311DTT86K - LED 0603 FAIBLE COURANT ORANGE (farnell 1685067)



| | | | | |
|--|----------------------|------------|-----------------|------------|
| Project/Equipment | - | Designer | Andrea Boccardi | XX/XX/XXXX |
| Document | - | Drawn by | Andrea Boccardi | - |
| AB-BI | - | Check by | - | 3/4/2010 |
| File | PowerSupplies_SchDoc | Print Date | 3/5/2010 | 9:36:56 AM |
| EDA-XXXXX-VX-X | - | Sheet | - | Rev |
| European Organization for Nuclear Research | - | Sheet | - | Rev |
| CH-1211 Genève 23 - Switzerland | - | Sheet | - | Rev |



Replace with the 3V3 version (same pinout)

