

1 2 3 4 5 6

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SOM based LX2160XE72232B CPU

Liron Avraham

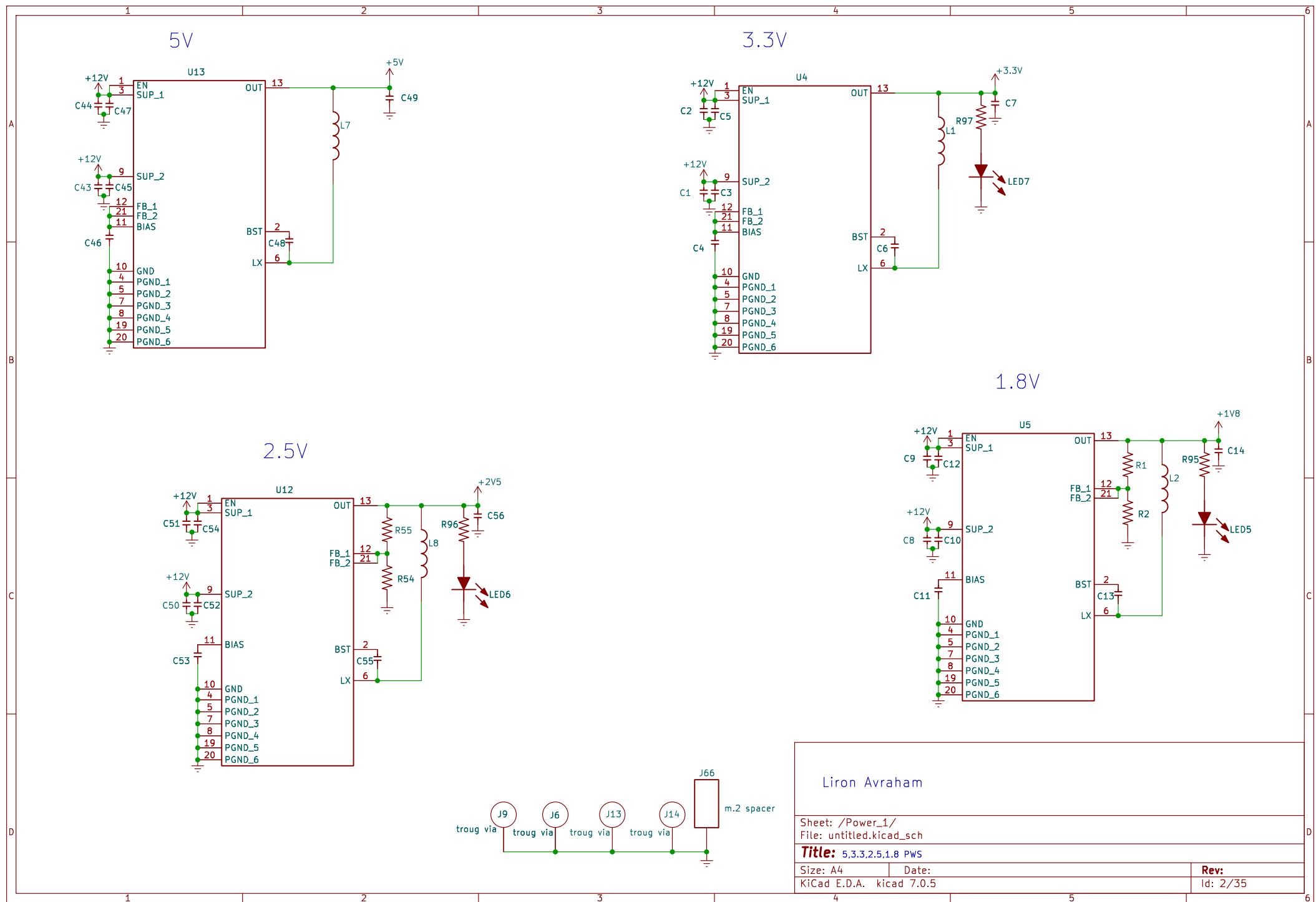
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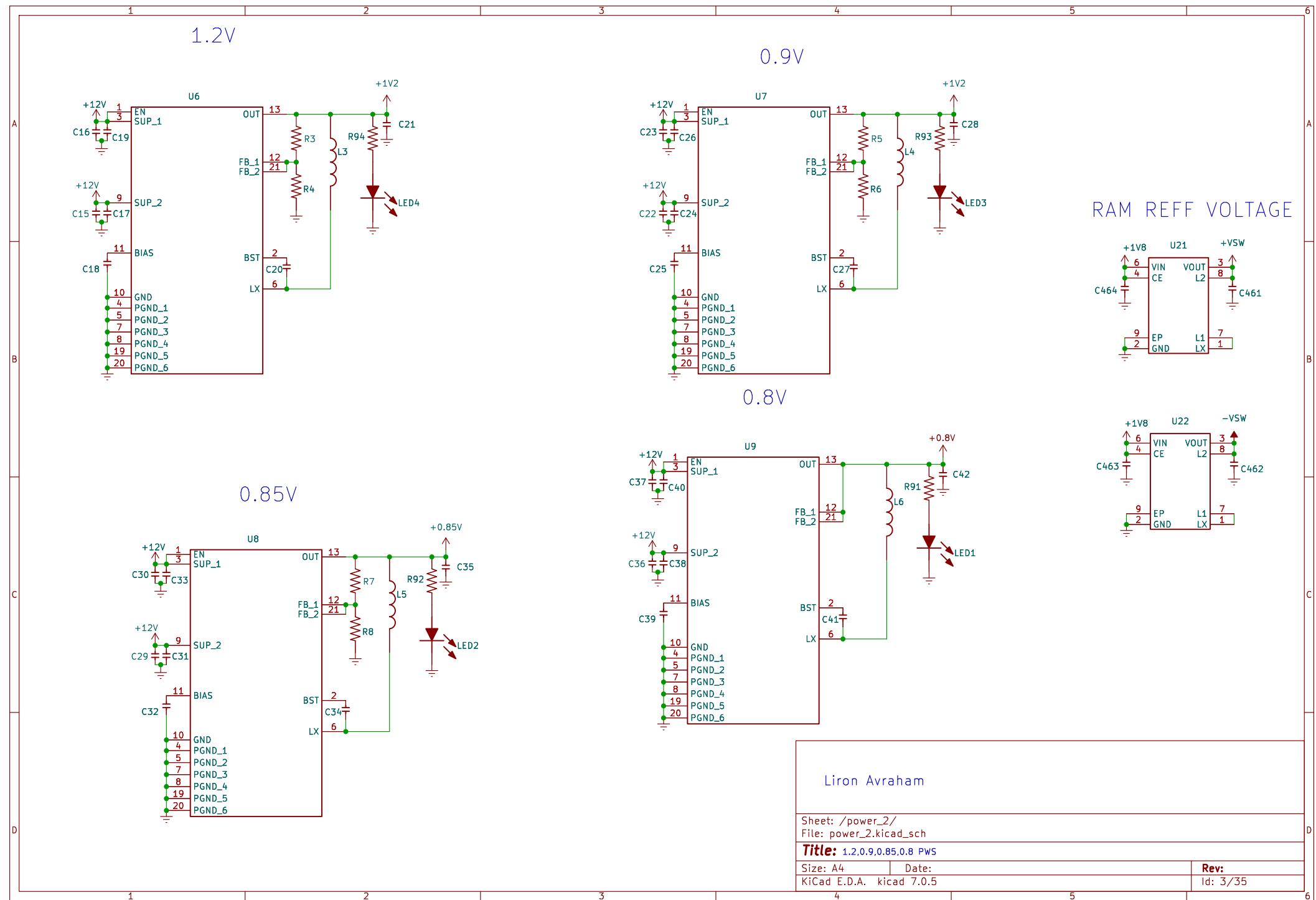
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Size: A4 | Date:
KiCad E.D.A. kicad 7.0.5

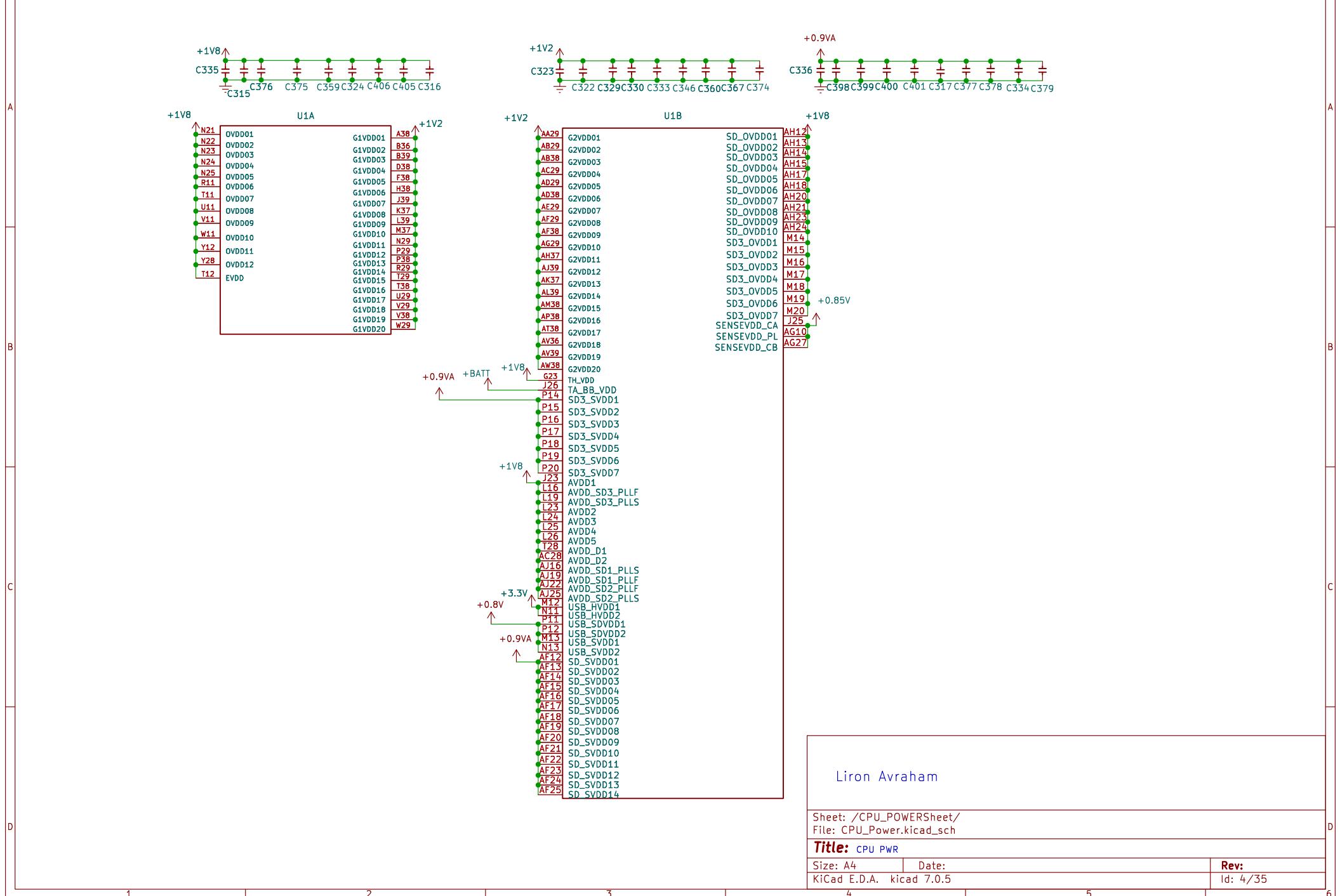
Rev:
Id: 1/35

1 2 3 4 5 6

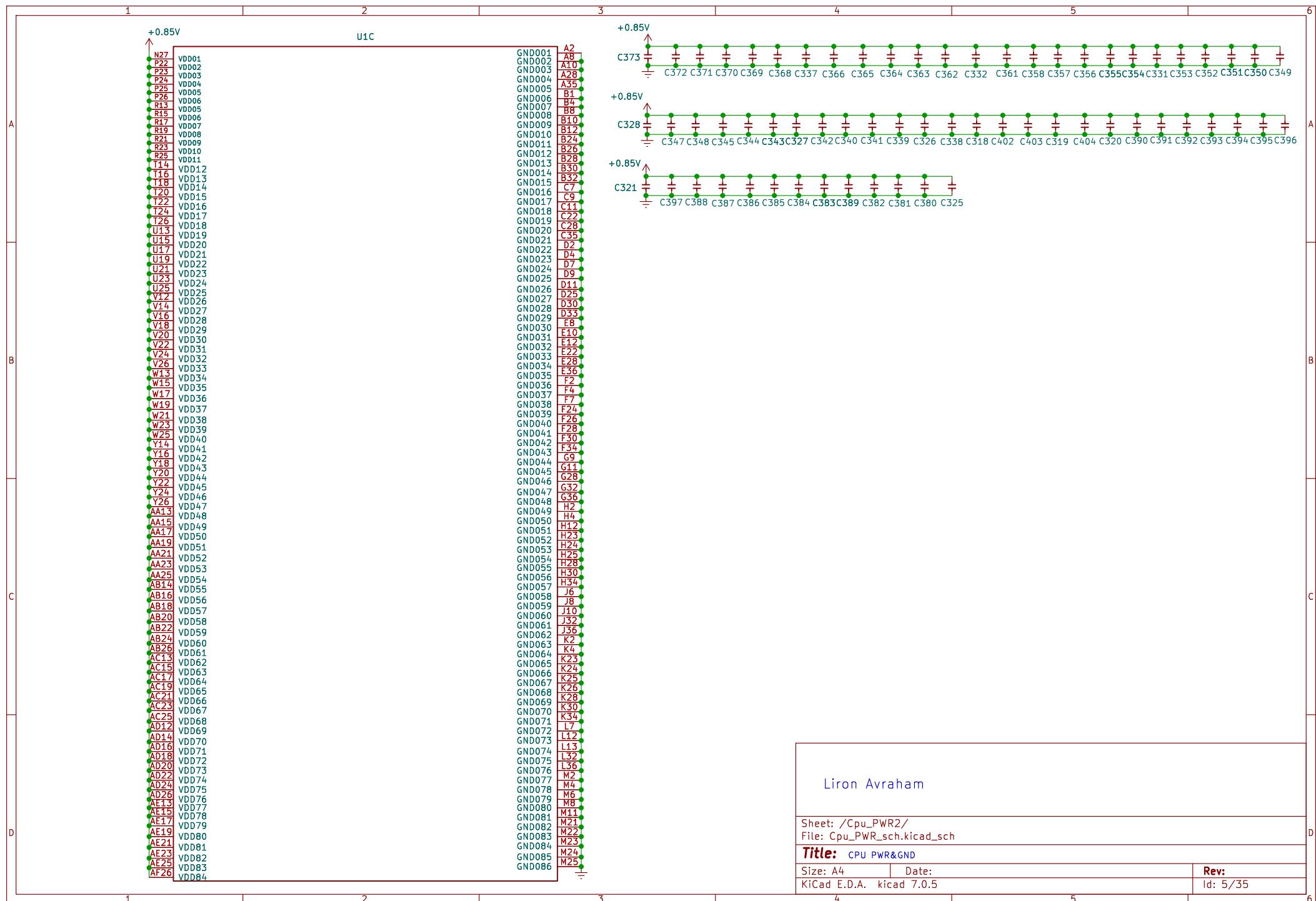




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U1D

| | | | |
|-----|--------|--------|------|
| M28 | GND087 | GND174 | W22 |
| M34 | GND088 | GND175 | W24 |
| N5 | GND089 | GND176 | W26 |
| N7 | GND090 | GND177 | W28 |
| N10 | GND091 | GND178 | Y30 |
| N12 | GND092 | GND179 | Y6 |
| N26 | GND093 | GND180 | Y10 |
| N28 | GND094 | GND181 | Y15 |
| N30 | GND095 | GND182 | Y15 |
| N32 | GND096 | GND183 | Y17 |
| N36 | GND097 | GND184 | Y19 |
| P2 | GND098 | GND185 | Y21 |
| P5 | GND099 | GND186 | Y23 |
| P6 | GND100 | GND187 | Y25 |
| P7 | GND101 | GND188 | Y27 |
| P8 | GND102 | GND189 | Y30 |
| P9 | GND103 | GND190 | Y32 |
| P10 | GND104 | GND191 | Y35 |
| P13 | GND105 | GND192 | Y37 |
| P21 | GND106 | GND193 | AA4 |
| P23 | GND107 | GND194 | AA8 |
| P25 | GND108 | GND195 | AA10 |
| P27 | GND109 | GND196 | AA12 |
| P30 | GND110 | GND197 | AA14 |
| P34 | GND111 | GND198 | AA16 |
| R4 | GND112 | GND199 | AA18 |
| R10 | GND113 | GND200 | AA20 |
| R12 | GND114 | GND201 | AA22 |
| R14 | GND115 | GND202 | AA24 |
| R16 | GND116 | GND203 | AA26 |
| R18 | GND117 | GND204 | AA28 |
| R22 | GND119 | GND205 | AA30 |
| R24 | GND120 | GND206 | AB6 |
| R26 | GND121 | GND207 | AB10 |
| R28 | GND122 | GND208 | AB13 |
| R30 | GND123 | GND209 | AB15 |
| R32 | GND124 | GND210 | AB17 |
| R36 | GND125 | GND211 | AB19 |
| T1 | GND126 | GND212 | AB21 |
| T3 | GND127 | GND213 | AB23 |
| T6 | GND128 | GND214 | AB25 |
| T10 | GND129 | GND215 | AB27 |
| T13 | GND130 | GND216 | AB30 |
| T15 | GND131 | GND217 | AC4 |
| T17 | GND132 | GND218 | AC4 |
| T19 | GND133 | GND219 | AC8 |
| T21 | GND134 | GND220 | AC10 |
| T23 | GND135 | GND221 | AC14 |
| T25 | GND136 | GND222 | AC16 |
| T27 | GND137 | GND223 | AC18 |
| T30 | GND138 | GND224 | AC20 |
| T34 | GND139 | GND225 | AC22 |
| U4 | GND140 | GND226 | AC24 |
| U8 | GND141 | GND227 | AC26 |
| U10 | GND142 | GND228 | AC30 |
| U12 | GND143 | GND229 | AC32 |
| U14 | GND144 | GND230 | AC36 |
| U16 | GND145 | GND231 | AD6 |
| U18 | GND146 | GND232 | AD10 |
| U20 | GND147 | GND233 | AD13 |
| U22 | GND148 | GND234 | AD15 |
| U24 | GND149 | GND235 | AD17 |
| U26 | GND150 | GND236 | AD19 |
| U30 | GND151 | GND237 | AD21 |
| U32 | GND152 | GND238 | AD23 |
| U36 | GND153 | GND239 | AD25 |
| V6 | GND154 | GND240 | AD27 |
| V10 | GND155 | GND241 | AD30 |
| V13 | GND156 | GND242 | AD34 |
| V15 | GND157 | GND243 | AE4 |
| V17 | GND158 | GND244 | AE8 |
| V19 | GND159 | GND245 | AE10 |
| V21 | GND160 | GND246 | AE12 |
| V23 | GND161 | GND247 | AE14 |
| V25 | GND162 | GND248 | AE16 |
| V27 | GND163 | GND249 | AE18 |
| V30 | GND164 | GND250 | AE20 |
| V34 | GND165 | GND251 | AE22 |
| W4 | GND166 | GND252 | AE24 |
| W8 | GND167 | GND253 | AE26 |
| W10 | GND168 | GND254 | AE28 |
| W14 | GND169 | GND255 | AE30 |
| W16 | GND170 | GND256 | AE32 |
| W18 | GND171 | GND257 | AE36 |
| W20 | GND172 | GND258 | AF6 |
| | GND173 | GND259 | AF10 |

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Sheet: /CPU_PWR3/
 File: CPU_PWR3.kicad_sch

Title: CPU GND

Size: A4 Date:
 KiCad E.D.A. kicad 7.0.5

Rev:
 Id: 6/35

A

| | | | |
|------|-------------|-----------|------|
| AF27 | GND260 | SD_GND30 | AK19 |
| AF30 | GND261 | SD_GND31 | AK20 |
| AF34 | GND262 | SD_GND32 | AK21 |
| AG4 | GND263 | SD_GND33 | AK22 |
| AG9 | GND264 | SD_GND34 | AK23 |
| AG11 | GND265 | SD_GND35 | AK24 |
| AG30 | GND266 | SD_GND36 | AK25 |
| AG32 | GND267 | SD_GND37 | AK26 |
| AG36 | GND268 | SD_GND38 | AK27 |
| AH7 | GND269 | SD_GND39 | A19 |
| AH11 | GND270 | SD_GND40 | A11 |
| AH28 | GND271 | SD_GND41 | A13 |
| AH34 | GND272 | SD_GND42 | A15 |
| AJ5 | GND273 | SD_GND43 | A17 |
| AJ10 | GND274 | SD_GND44 | A19 |
| AJ32 | GND275 | SD_GND45 | AL21 |
| AJ36 | GND276 | SD_GND46 | AL23 |
| AK4 | GND277 | SD_GND47 | AL25 |
| AK7 | GND278 | SD_GND48 | AL27 |
| AK9 | GND279 | SD_GND49 | AM9 |
| AK28 | GND280 | SD_GND50 | AM11 |
| AK30 | GND281 | SD_GND51 | AM13 |
| AK34 | GND282 | SD_GND52 | AM15 |
| AL5 | GND283 | SD_GND53 | AM17 |
| AL32 | GND284 | SD_GND54 | AM18 |
| AL36 | GND285 | SD_GND55 | AM19 |
| AM3 | GND286 | SD_GND56 | AM21 |
| AM8 | GND287 | SD_GND57 | AM23 |
| AM28 | GND288 | SD_GND58 | AM25 |
| AM30 | GND289 | SD_GND59 | AN8 |
| AM34 | GND290 | SD_GND60 | AN10 |
| AN6 | GND291 | SD_GND61 | AN12 |
| AN32 | GND292 | SD_GND62 | AN14 |
| AN36 | GND293 | SD_GND63 | AN15 |
| AP3 | GND294 | SD_GND64 | AN14 |
| AP5 | GND295 | SD_GND65 | AN16 |
| AP30 | GND296 | SD_GND66 | AN18 |
| AP34 | GND297 | SD_GND67 | AN20 |
| AR8 | GND298 | SD_GND68 | AN22 |
| AR28 | GND299 | SD_GND69 | AN23 |
| AR36 | GND300 | SD_GND70 | AN24 |
| AT4 | GND301 | SD_GND71 | AN29 |
| AT6 | GND302 | SD_GND72 | AN29 |
| AT30 | GND303 | SD_GND73 | AP8 |
| AT33 | GND304 | SD_GND74 | AP10 |
| AU3 | GND305 | SD_GND75 | AP12 |
| AU8 | GND306 | SD_GND76 | AP14 |
| AU28 | GND307 | SD_GND77 | AP16 |
| AU35 | GND308 | SD_GND78 | AP18 |
| AV4 | GND309 | SD_GND79 | AP20 |
| AV6 | GND310 | SD_GND80 | AP22 |
| AV30 | GND311 | SD_GND81 | AP26 |
| AV32 | GND312 | SD_GND82 | AP28 |
| AW2 | GND313 | SD_GND83 | AR9 |
| AW35 | GND314 | SD_GND84 | AR10 |
| J24 | SENSEGND_CA | SD_GND85 | AR11 |
| AG26 | SENSEGND_CB | SD_GND86 | AR12 |
| AJ11 | SENSEGND_PL | SD_GND87 | AR14 |
| AG12 | SD_GND01 | SD_GND88 | AR15 |
| AG13 | SD_GND02 | SD_GND89 | AR16 |
| AG14 | SD_GND03 | SD_GND90 | AR19 |
| AG15 | SD_GND04 | SD_GND91 | AR17 |
| AG16 | SD_GND05 | SD_GND92 | AR18 |
| AG17 | SD_GND06 | SD_GND93 | AR19 |
| AG18 | SD_GND07 | SD_GND94 | AR20 |
| AG19 | SD_GND08 | SD_GND95 | AR21 |
| AG20 | SD_GND09 | SD_GND96 | AR22 |
| AG21 | SD_GND10 | SD_GND97 | AR24 |
| AG22 | SD_GND11 | SD_GND98 | AR25 |
| AG23 | SD_GND12 | SD_GND99 | AR26 |
| AG24 | SD_GND13 | SD_GND100 | AR27 |
| AG25 | SD_GND14 | SD_GND101 | A19 |
| AH16 | SD_GND15 | SD_GND102 | A11 |
| AH19 | SD_GND16 | SD_GND103 | A13 |
| AH22 | SD_GND17 | SD_GND104 | A15 |
| AH25 | SD_GND18 | SD_GND105 | A17 |
| AH27 | SD_GND19 | SD_GND106 | A19 |
| AJ12 | SD_GND19 | SD_GND107 | A23 |
| AK10 | SD_GND20 | SD_GND108 | A23 |
| K11 | SD_GND21 | SD_GND109 | A25 |
| K12 | SD_GND22 | SD_GND110 | A27 |
| AK13 | SD_GND23 | SD_GND111 | AU9 |
| AK14 | SD_GND24 | SD_GND112 | AU11 |
| AK15 | SD_GND25 | SD_GND113 | AU13 |
| AK16 | SD_GND26 | SD_GND114 | AU15 |
| AK17 | SD_GND27 | SD_GND115 | AU17 |
| AK18 | SD_GND28 | | |
| | SD_GND29 | | |

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Sheet: /CPU_PWR4/
File: CPU_PWR4.kicad_sch

Title: CPU GND

Size: A4 Date:
KiCad E.D.A. kicad 7.0.5

Rev:
Id: 7/35

U1F

| | | |
|------|-----------|------|
| AU19 | SD_GND116 | K19 |
| AU23 | SD_GND117 | K20 |
| AU25 | SD_GND118 | K21 |
| AU27 | SD_GND119 | L14 |
| AV8 | SD_GND120 | L21 |
| AV10 | SD_GND121 | N14 |
| AV12 | SD_GND122 | N15 |
| AV14 | SD_GND123 | N16 |
| AV16 | SD_GND124 | N17 |
| AV18 | SD_GND125 | N18 |
| AV20 | SD_GND126 | N19 |
| AV22 | SD_GND127 | N20 |
| AV24 | SD_GND128 | K11 |
| AV26 | SD_GND129 | K22 |
| AV28 | SD_GND130 | L8 |
| AW8 | SD_GND131 | N19 |
| AW10 | SD_GND132 | M5 |
| AW12 | SD_GND133 | P28 |
| AW14 | SD_GND134 | R5 |
| AW16 | SD_GND135 | R6 |
| AW18 | SD_GND136 | R7 |
| AW20 | SD_GND137 | R8 |
| AW22 | SD_GND138 | R9 |
| AW24 | SD_GND139 | R27 |
| AW26 | SD_GND140 | T2 |
| AW28 | SD_GND141 | T4 |
| A12 | SD3_GND01 | T5 |
| A14 | SD3_GND02 | T7 |
| A16 | SD3_GND03 | T8 |
| A18 | SD3_GND04 | T9 |
| A20 | SD3_GND05 | U1 |
| A22 | SD3_GND06 | U2 |
| B14 | SD3_GND07 | U3 |
| B16 | SD3_GND08 | U5 |
| B18 | SD3_GND09 | U6 |
| B20 | SD3_GND10 | U7 |
| B22 | SD3_GND11 | U9 |
| C13 | SD3_GND12 | U27 |
| C15 | SD3_GND13 | V1 |
| C17 | SD3_GND14 | V2 |
| C19 | SD3_GND15 | V3 |
| C21 | SD3_GND16 | V4 |
| D13 | SD3_GND17 | V5 |
| D15 | SD3_GND18 | V7 |
| D17 | SD3_GND19 | V8 |
| D19 | SD3_GND20 | V9 |
| D21 | SD3_GND21 | V28 |
| E13 | SD3_GND22 | W1 |
| E14 | SD3_GND23 | W2 |
| E15 | SD3_GND24 | W3 |
| E16 | SD3_GND25 | W5 |
| E18 | SD3_GND26 | W6 |
| E19 | SD3_GND27 | W7 |
| E20 | SD3_GND28 | W9 |
| E21 | SD3_GND29 | W27 |
| F12 | SD3_GND30 | Y1 |
| F14 | SD3_GND31 | Y2 |
| F16 | SD3_GND32 | Y3 |
| F18 | SD3_GND33 | Y4 |
| F20 | SD3_GND34 | Y5 |
| F22 | SD3_GND35 | Y7 |
| G12 | SD3_GND36 | Y8 |
| G14 | SD3_GND37 | Y9 |
| G16 | SD3_GND38 | Y11 |
| G17 | SD3_GND39 | AA1 |
| G18 | SD3_GND40 | AA2 |
| G20 | SD3_GND41 | AA3 |
| G22 | SD3_GND42 | AA5 |
| H13 | SD3_GND43 | AA6 |
| H15 | SD3_GND44 | AA7 |
| H17 | SD3_GND45 | AA9 |
| H19 | SD3_GND46 | AA9 |
| H21 | SD3_GND47 | AA11 |
| H22 | SD3_GND48 | AA27 |
| J13 | SD3_GND49 | AB1 |
| J15 | SD3_GND49 | AB2 |
| J17 | SD3_GND50 | AB3 |
| J19 | SD3_GND51 | AB4 |
| J21 | SD3_GND52 | AB5 |
| K13 | SD3_GND53 | AB7 |
| K14 | SD3_GND54 | AB8 |
| K15 | SD3_GND55 | AB9 |
| K16 | SD3_GND56 | AB11 |
| K17 | SD3_GND57 | AB12 |
| K18 | SD3_GND58 | AC1 |
| | SD3_GND59 | |

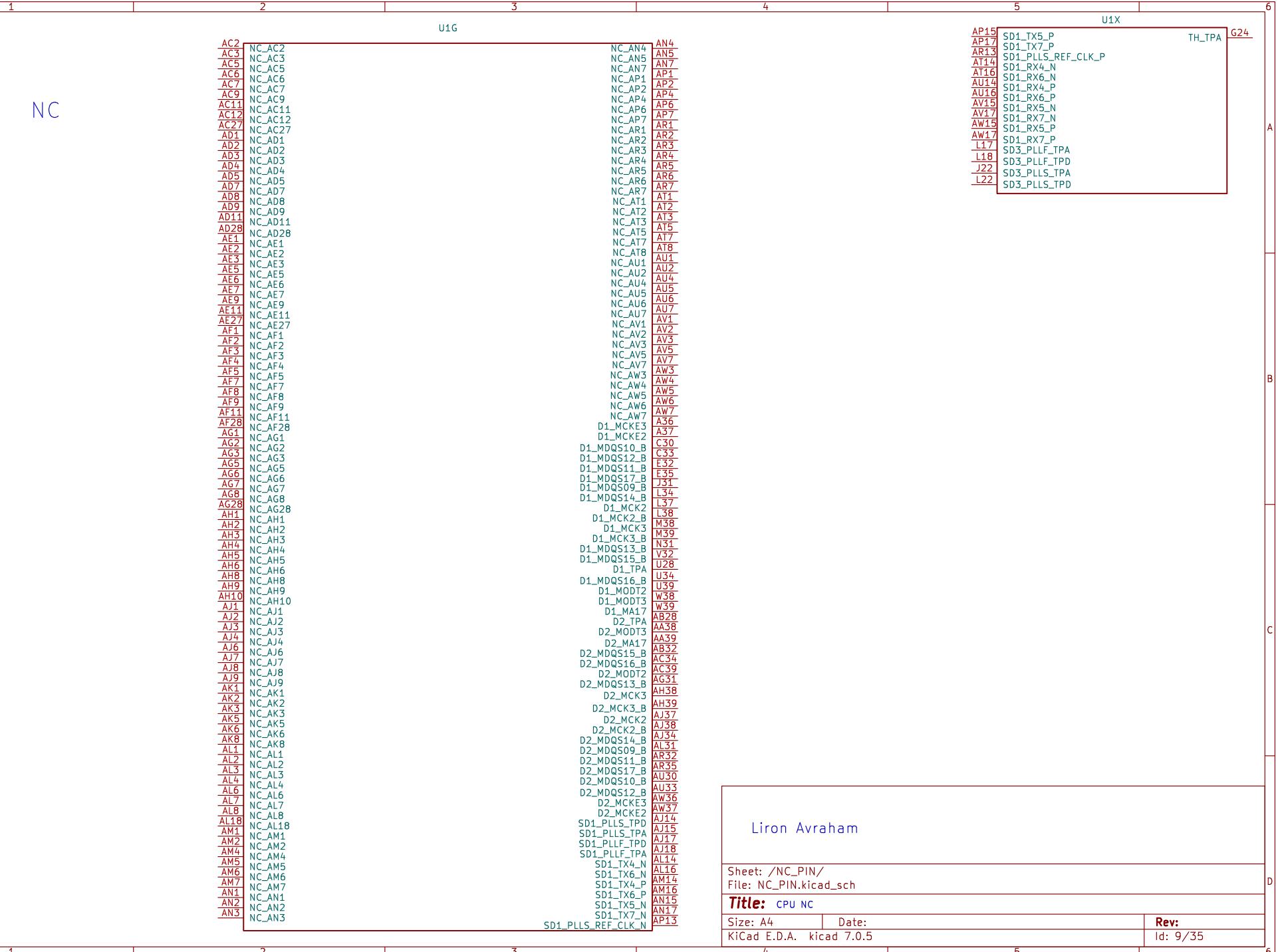
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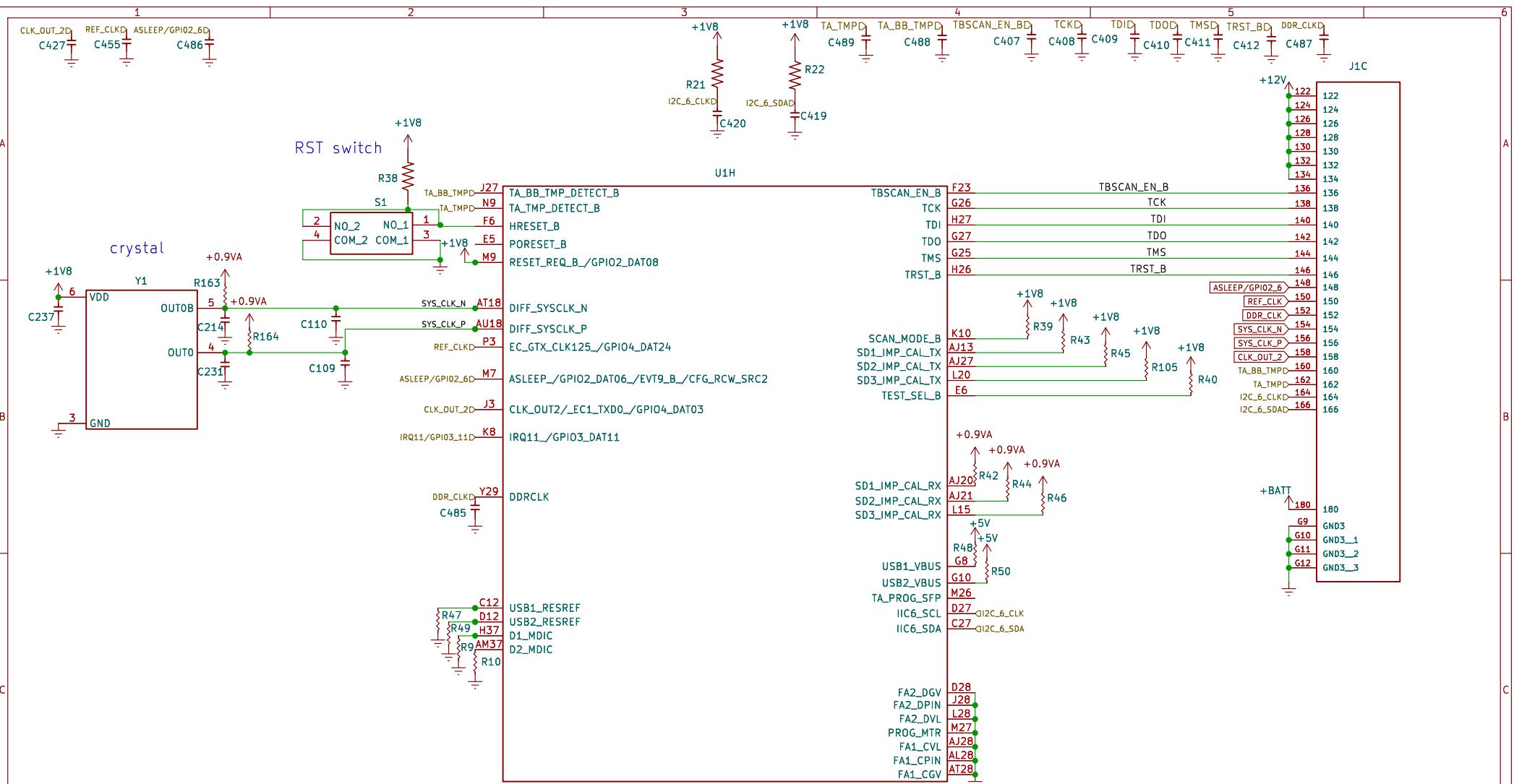
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Title: CPU GND & NC

Size: A4 Date:
KiCad E.D.A. kicad 7.0.5

Rev:
Id: 8/35





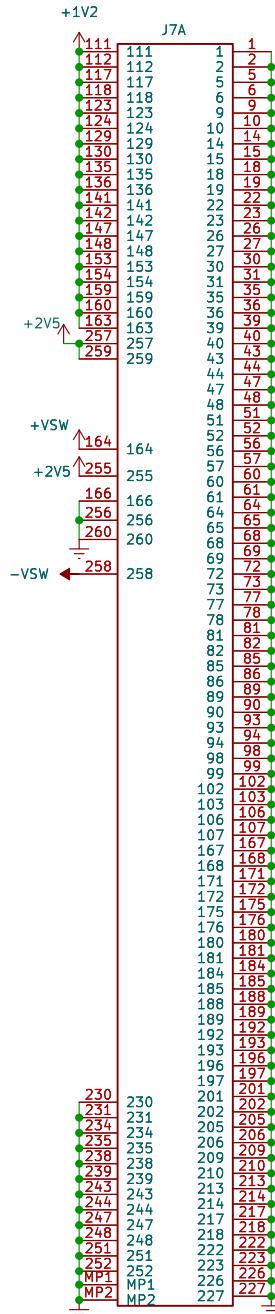
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Sheet: /Control_PIN/
File: Control_PIN.kicad_sch

Title: Control pins

Size: A4 Date:
KiCad E.D.A. kicad 7.0.5

Rev:
Id: 10/35



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Sheet: /Low_Ram_Con_PWR/
File: Low_Ram_Con_PWR_sch.kicad_sch

Title: Low Ram connector PWR pins

Size: A4 Date:

KiCad E.D.A. kicad 7.0.5

Rev:
Id: 11/35

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| J7B | 3 | H29 | U11 |
|-----|-----|-----|----------------------------------|
| 4 | 4 | J29 | D1_MDQ05 |
| 7 | 7 | L29 | D1_MDQ04 |
| 8 | 8 | K29 | D1_MDQ01 |
| 11 | 11 | K32 | D1_MDQ00 |
| 12 | 12 | J30 | D1_MDM00_B/D1_MDBI00_B/D1_MDQS09 |
| 13 | 13 | K31 | D1_MDQS06 |
| 16 | 16 | L30 | D1_MDQ06 |
| 17 | 17 | L31 | D1_MDQ07 |
| 20 | 20 | M29 | D1_MDQ02 |
| 21 | 21 | M30 | D1_MDQ03 |
| 24 | 24 | D29 | D1_MDQ12 |
| 25 | 25 | A29 | D1_MDQ13 |
| 28 | 28 | B29 | D1_MDQ08 |
| 29 | 29 | A30 | D1_MDQ09 |
| 32 | 32 | E30 | D1_MDQS01 |
| 33 | 33 | C29 | D1_MDM01_B/D1_MDBI01_B/D1_MDQS10 |
| 34 | 34 | E29 | D1_MDQS01_B |
| 37 | 37 | D31 | D1_MDQ14 |
| 38 | 38 | F29 | D1_MDQ15 |
| 41 | 41 | G29 | D1_MDQ10 |
| 42 | 42 | G30 | D1_MDQ11 |
| 45 | 45 | E31 | D1_MDQ21 |
| 46 | 46 | F31 | D1_MDQ20 |
| 49 | 49 | H31 | D1_MDQ17 |
| 50 | 50 | G31 | D1_MDQ16 |
| 53 | 53 | F33 | D1_MDQ502 |
| 54 | 54 | D32 | D1_MDM02_B/D1_MDBI02_B/D1_MDQS11 |
| 55 | 55 | F32 | D1_MDQS02_B |
| 58 | 58 | G33 | D1_MDQ22 |
| 59 | 59 | H32 | D1_MDQ23 |
| 62 | 62 | H33 | D1_MDQ18 |
| 63 | 63 | J33 | A31 |
| 66 | 66 | A31 | D1_MDQ28 |
| 67 | 67 | B31 | D1_MDQ29 |
| 70 | 70 | C31 | D1_MDQ24 |
| 71 | 71 | A32 | D1_MDQ25 |
| 74 | 74 | B32 | D1_MDQS03 |
| 75 | 75 | C32 | D1_MDM03_B/D1_MDBI03_B/D1_MDQS12 |
| 76 | 76 | A33 | D1_MDQS03_B |
| 79 | 79 | A34 | D1_MDQ30 |
| 80 | 80 | B34 | D1_MDQ31 |
| 83 | 83 | C34 | D1_MDQ26 |
| 84 | 84 | B35 | D1_MDQ27 |
| 87 | 87 | D34 | D1_MECC5 |
| 88 | 88 | E33 | D1_MECC4 |
| 91 | 91 | D36 | D1_MECC1 |
| 92 | 92 | F35 | D1_MECC0 |
| 95 | 95 | E34 | D1_MDQS08 |
| 96 | 96 | F35 | D1_MDM08_B/D1_MDBI08_B/D1_MDQS17 |
| 97 | 97 | G34 | D1_MDQS08_B |
| 100 | 100 | G34 | D1_MECC6 |
| 101 | 101 | H35 | D1_MECC2 |
| 104 | 104 | G35 | D1_MECC7 |
| 105 | 105 | H36 | D1_MECC3 |
| 108 | 108 | Y38 | D1_MRESET_B |
| 109 | 109 | B37 | D1_MCKE0 |
| 110 | 110 | C36 | D1_MCKE1 |
| 113 | 113 | C36 | D1_MBG1 |
| 114 | 114 | B38 | D1_MACT_B |
| 115 | 115 | C37 | D1_MBGO |
| 116 | 116 | C39 | D1_MALERT_B |
| 119 | 119 | D37 | D1_MA12 |
| 120 | 120 | E37 | D1_MA11 |
| 121 | 121 | D39 | D1_MA09 |
| 122 | 122 | E38 | D1_MA07 |
| 125 | 125 | E39 | D1_MA08 |
| 126 | 126 | F39 | D1_MA05 |
| 127 | 127 | F37 | D1_MA06 |
| 128 | 128 | G37 | D1_MA04 |
| 131 | 131 | G38 | D1_MA03 |
| 132 | 132 | H39 | D1_MA02 |
| 133 | 133 | G39 | D1_MA01 |
| 134 | 134 | | |
| 137 | 137 | J37 | D1_MCK0 |
| 138 | 138 | K38 | D1_MCK1 |
| 139 | 139 | J38 | D1_MCK0_B |
| 140 | 140 | K39 | D1_MCK1_B |
| 143 | 143 | N39 | D1_MPAR |
| 144 | 144 | N38 | D1_MA00 |
| 145 | 145 | N37 | D1_MBA1 |
| 146 | 146 | P39 | D1_MA10 |

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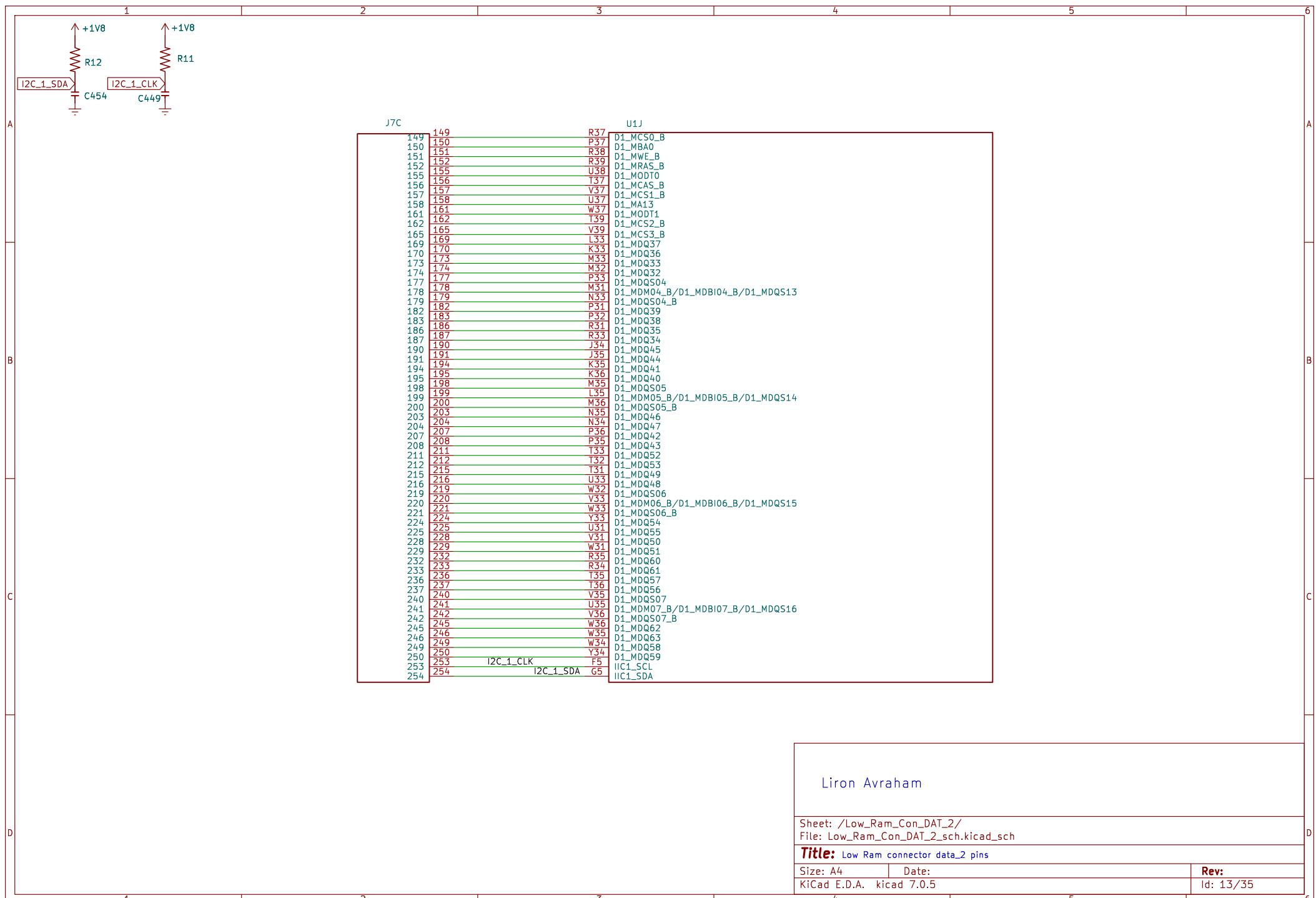
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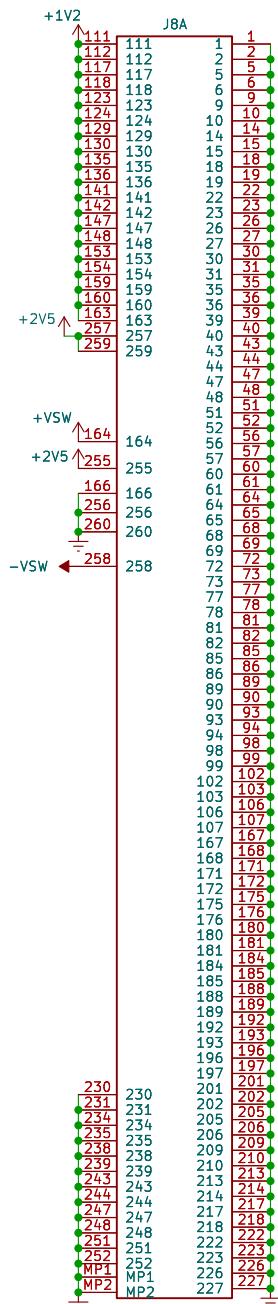
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Size: A4 Date:

KiCad E.D.A. kicad 7.0.5

Rev:
 Id: 12/35





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Sheet: /High_Ram_Con_PWR/
 File: High_Ram_Con_PWR_sch.kicad_sch

Title: High Ram connector PWR pins

Size: A4 Date:

KiCad E.D.A. kicad 7.0.5

Rev:

Id: 14/35

| J8B | U1K |
|-----|----------------------------------|
| 3 | AM29 |
| 4 | D2_MDQ05 |
| 7 | AL29 |
| 8 | D2_MDQ04 |
| 11 | AJ29 |
| 12 | D2_MDQ01 |
| 13 | AK29 |
| 16 | D2_MDQ00 |
| 17 | AL30 |
| 20 | D2_MDM00_B/D2_MDBI00_B/D2_MDQS09 |
| 21 | AK31 |
| 24 | D2_MDQ500 |
| 25 | AJ30 |
| 28 | D2_MDQ06 |
| 29 | AH29 |
| 32 | D2_MDQ07 |
| 33 | AJ31 |
| 34 | D2_MDQ02 |
| 37 | AH30 |
| 38 | D2_MDQ03 |
| 41 | AT29 |
| 42 | D2_MDQ12 |
| 45 | AV29 |
| 46 | D2_MDQ08 |
| 49 | AW30 |
| 50 | D2_MDQ09 |
| 53 | AR30 |
| 54 | D2_MDQS01 |
| 55 | AU29 |
| 58 | D2_MDM01_B/D2_MDBI01_B/D2_MDQS10 |
| 59 | AR29 |
| 62 | D2_MDQS01_B |
| 63 | AP29 |
| 66 | D2_MDQ15 |
| 67 | AT31 |
| 70 | D2_MDQ14 |
| 71 | AN29 |
| 74 | D2_MDQ10 |
| 75 | AN30 |
| 76 | D2_MDQ11 |
| 79 | AR31 |
| 80 | D2_MDQ21 |
| 83 | AM32 |
| 84 | D2_MDQ20 |
| 87 | AP31 |
| 88 | D2_MDQ16 |
| 91 | AM33 |
| 92 | D2_MDQ17 |
| 95 | AN31 |
| 96 | D2_MDQ18 |
| 97 | AP33 |
| 100 | D2_MDQ19 |
| 101 | AT32 |
| 104 | D2_MDQ28 |
| 105 | AN32 |
| 108 | D2_MDQ02_B/D2_MDBI02_B/D2_MDQS11 |
| 109 | AP32 |
| 110 | D2_MDQ502_B |
| 113 | AN33 |
| 114 | D2_MDQ22 |
| 115 | AM32 |
| 116 | D2_MDQ23 |
| 119 | AL33 |
| 120 | D2_MDQ18 |
| 121 | AV31 |
| 122 | D2_MDQ24 |
| 125 | AU31 |
| 126 | D2_MDQ25 |
| 127 | AW32 |
| 128 | D2_MDQ03_B |
| 131 | AU32 |
| 132 | D2_MDQ30 |
| 133 | AV33 |
| 134 | D2_MDQ03 |
| 137 | AU34 |
| 138 | D2_MDQ26 |
| 139 | AT34 |
| 140 | D2_MECC5 |
| 143 | AR33 |
| 144 | D2_MECC4 |
| 145 | AT35 |
| 146 | D2_MECC1 |
| 146 | AP36 |
| 146 | D2_MECC0 |
| 146 | AR34 |
| 146 | D2_MDM08_B/D2_MDBI08_B/D2_MDQS17 |
| 146 | AP35 |
| 146 | D2_MDQS08_B |
| 146 | AN34 |
| 146 | D2_MECC6 |
| 146 | AM35 |
| 146 | D2_MECC2 |
| 146 | AN35 |
| 146 | D2_MECC7 |
| 146 | AM36 |
| 146 | D2_MECC3 |
| 146 | Y39 |
| 146 | D2_MRRESET_B |
| 146 | AV37 |
| 146 | D2_MCKE0 |
| 146 | AU36 |
| 146 | D2_MKE1 |
| 146 | AU38 |
| 146 | D2_MBGB1 |
| 146 | AV38 |
| 146 | D2_MACT_B |
| 146 | AU37 |
| 146 | D2_MBGO |
| 146 | AU39 |
| 146 | D2_MALEFT_B |
| 146 | AT37 |
| 146 | D2_MA12 |
| 146 | AR37 |
| 146 | D2_MA11 |
| 146 | AU39 |
| 146 | D2_MA09 |
| 146 | AR38 |
| 146 | D2_MA07 |
| 146 | AR39 |
| 146 | D2_MA08 |
| 146 | AP39 |
| 146 | D2_MA05 |
| 146 | AP37 |
| 146 | D2_MA06 |
| 146 | AN37 |
| 146 | D2_MA04 |
| 146 | AN38 |
| 146 | D2_MA03 |
| 146 | AM39 |
| 146 | D2_MA02 |
| 146 | AN39 |
| 146 | D2_MA01 |
| 146 | AL37 |
| 146 | D2_MCK0 |
| 146 | AK38 |
| 146 | D2_MCK1 |
| 146 | AL38 |
| 146 | D2_MCK0_B |
| 146 | AK39 |
| 146 | D2_MCK1_B |
| 146 | AC39 |
| 146 | D2_MPAB |
| 146 | AG39 |
| 146 | D2_MA00 |
| 146 | AG39 |
| 146 | D2_MA00 |
| 146 | AG37 |
| 146 | D2_MBA1 |
| 146 | AT39 |
| 146 | D2_MA10 |

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Sheet: /High_Ram_Con_DAT_1/

File: High_Ram_Con_DAT_1.kicad_sch

Title: High Ram connector data_1 pins

Size: A4 Date:

KiCad E.D.A. kicad 7.0.5

Rev:

Id: 15/35

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| J8C | 149 | AE37 | U1L |
|-----|-----|-----------|----------------------------------|
| 149 | 150 | AE37 | D2_MCS0_B |
| 150 | 151 | AE38 | D2_MBA0 |
| 151 | 152 | AE39 | D2_MWE_B |
| 152 | 155 | AC38 | D2_MRAS_B |
| 155 | 156 | AD37 | D2_MODT0 |
| 156 | 157 | AB37 | D2_MCAS_B |
| 157 | 158 | AC37 | D2_MCS1_B |
| 158 | 161 | AA37 | D2_MA13 |
| 161 | 162 | AD39 | D2_MODT1 |
| 162 | 165 | AB39 | D2_MCS2_B |
| 165 | 169 | AJ33 | D2_MCS3_B |
| 169 | 170 | AK33 | D2_MDQ37 |
| 170 | 173 | AH33 | D2_MDQ36 |
| 173 | 174 | AH32 | D2_MDQ33 |
| 174 | 177 | AF33 | D2_MDQ32 |
| 177 | 178 | AH31 | D2_MDQS04 |
| 178 | 179 | AG33 | D2_MDM04_B/D2_MDBI04_B/D2_MDQS13 |
| 179 | 182 | AF31 | D2_MDQS04_B |
| 182 | 183 | AF32 | D2_MDO39 |
| 183 | 186 | AE31 | D2_MDQ38 |
| 186 | 187 | AE33 | D2_MDQ35 |
| 187 | 190 | AL34 | D2_MDQ34 |
| 190 | 191 | AL35 | D2_MDQ45 |
| 191 | 194 | AK35 | D2_MDQ44 |
| 194 | 195 | AK36 | D2_MDQ41 |
| 195 | 198 | AH35 | D2_MDQ40 |
| 198 | 199 | AJ35 | D2_MDM05_B/D2_MDBI05_B/D2_MDQS14 |
| 199 | 200 | AH36 | D2_MDQS05_B |
| 200 | 203 | AG35 | D2_MDO50 |
| 203 | 204 | AG34 | D2_MDQ46 |
| 204 | 207 | AF36 | D2_MDQ47 |
| 207 | 208 | AF35 | D2_MDQ42 |
| 208 | 211 | AD33 | D2_MDQ43 |
| 211 | 212 | AD32 | D2_MDQ52 |
| 212 | 215 | AD34 | D2_MDQ53 |
| 215 | 216 | AC35 | D2_MDQ49 |
| 216 | 219 | AC35 | D2_MDQ48 |
| 219 | 220 | AA32 | D2_MDQS06 |
| 220 | 221 | AB33 | D2_MDM06_B/D2_MDBI06_B/D2_MDQS15 |
| 221 | 224 | AA33 | D2_MDQS06_B |
| 224 | 225 | AC34 | D2_MDQ54 |
| 225 | 228 | AB31 | D2_MDQ55 |
| 228 | 229 | AA31 | D2_MDQ50 |
| 229 | 232 | AA31 | D2_MDQ51 |
| 232 | 233 | AE35 | D2_MDQ60 |
| 233 | 236 | AE34 | D2_MDQ61 |
| 236 | 237 | AD35 | D2_MDQ57 |
| 237 | 240 | AD36 | D2_MDQ56 |
| 240 | 241 | AB35 | D2_MDQS07 |
| 241 | 242 | AC35 | D2_MDM07_B/D2_MDBI07_B/D2_MDQS16 |
| 242 | 245 | AB36 | D2_MDQS07_B |
| 245 | 246 | AA36 | D2_MDQ62 |
| 246 | 249 | AA35 | D2_MDQ63 |
| 249 | 250 | AA34 | D2_MDQ58 |
| 250 | 253 | Y36 | D2_MDQ59 |
| 253 | 254 | I2C_1_CLK | |
| 254 | | I2C_1_SDA | |

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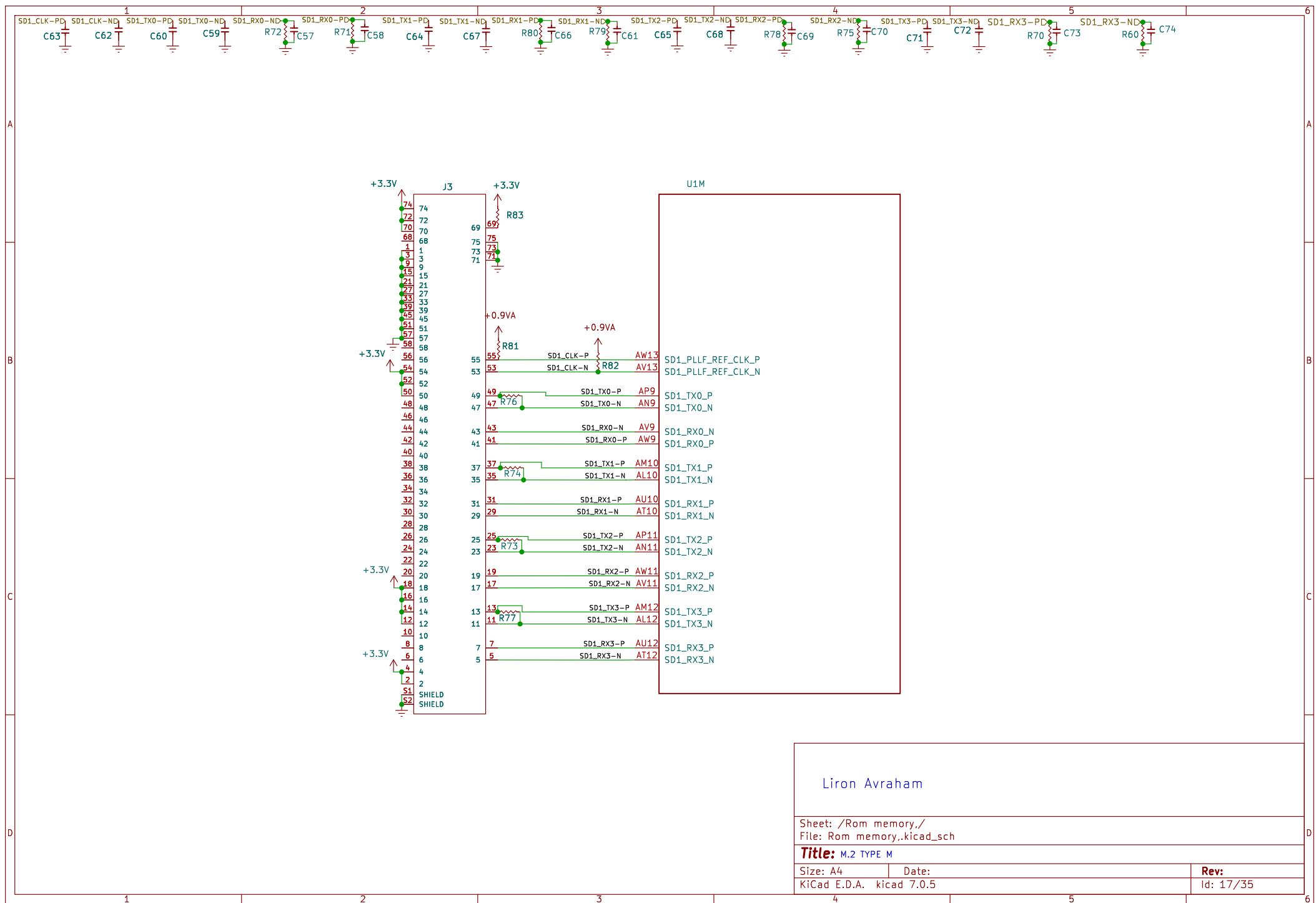
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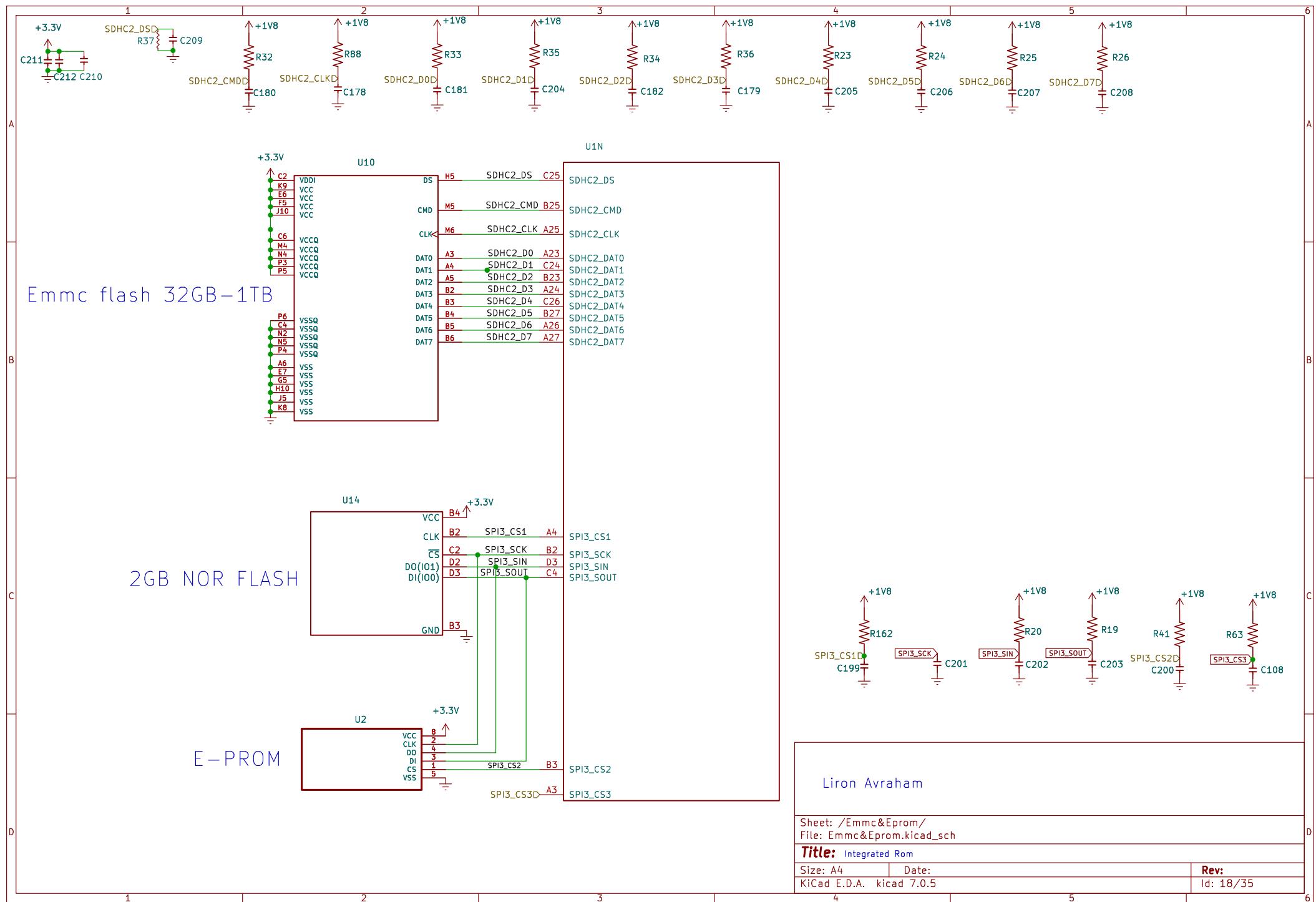
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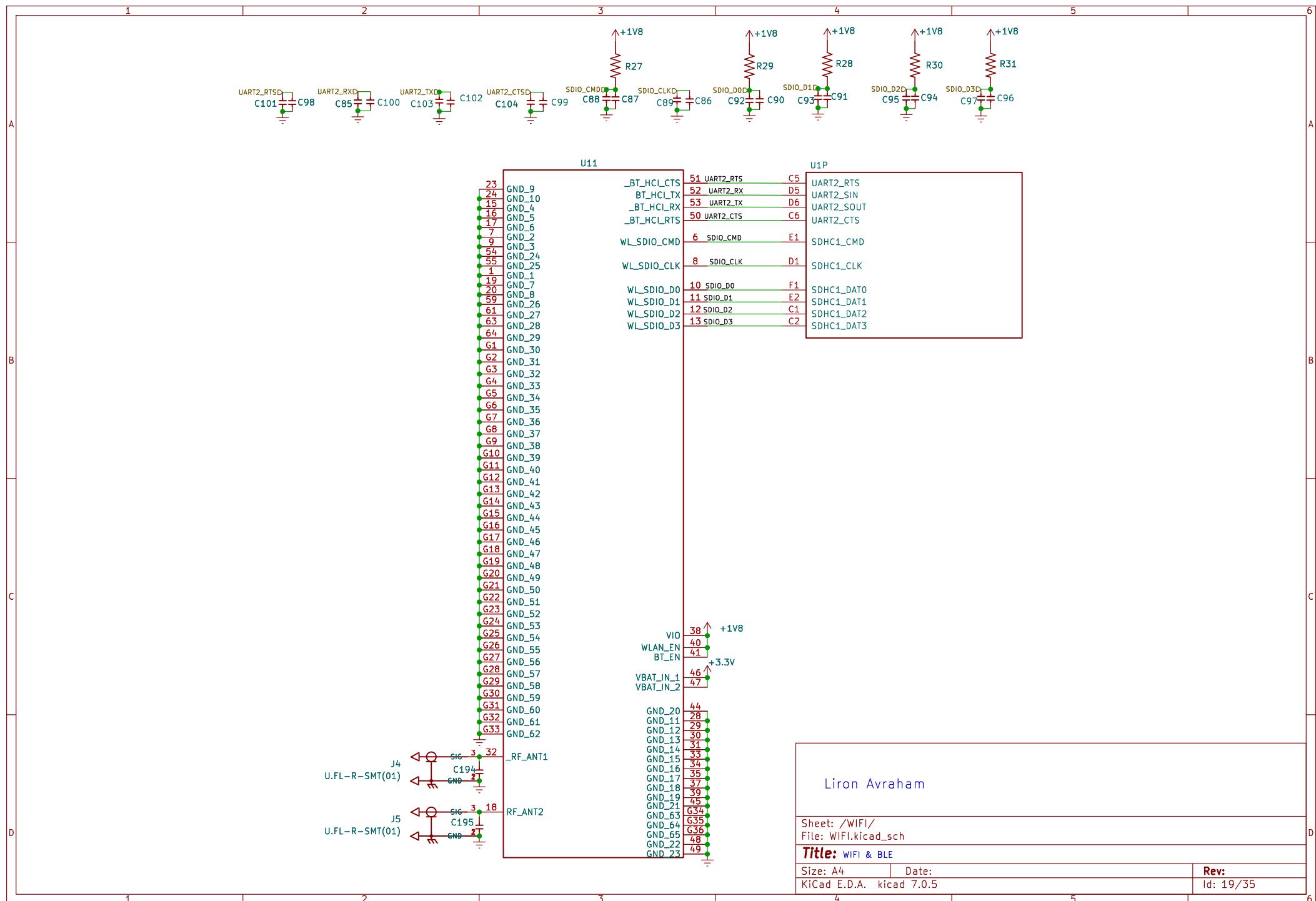
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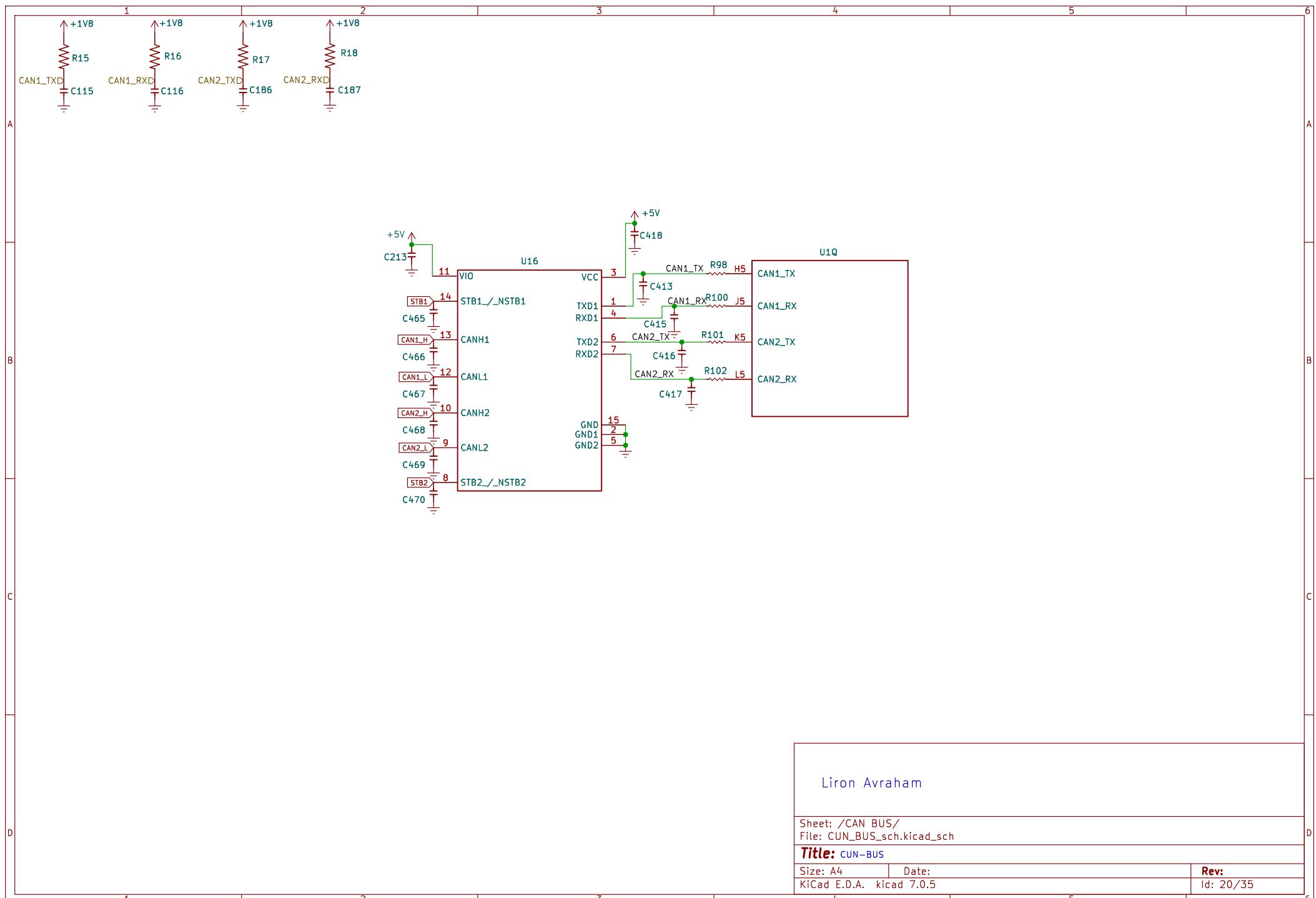
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Rev:
 Id: 16/35









1 2 3 4 5 6

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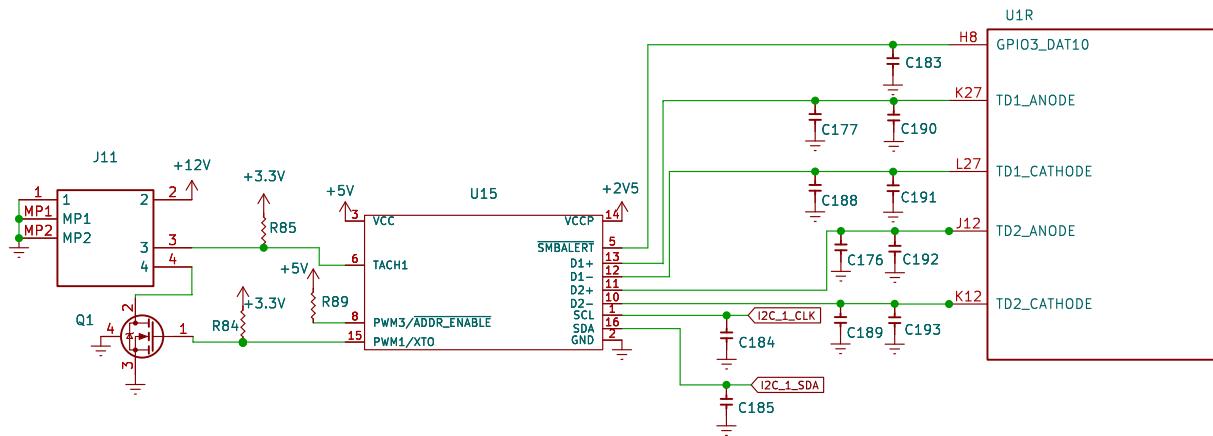
B

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File: Fan_control_sch.kicad_sch

Title: PWM fan control

Size: A4 Date:
KiCad E.D.A. kicad 7.0.5

Rev:
Id: 21/35

1 2 3 4 5 6

1 2 3 4 5 6

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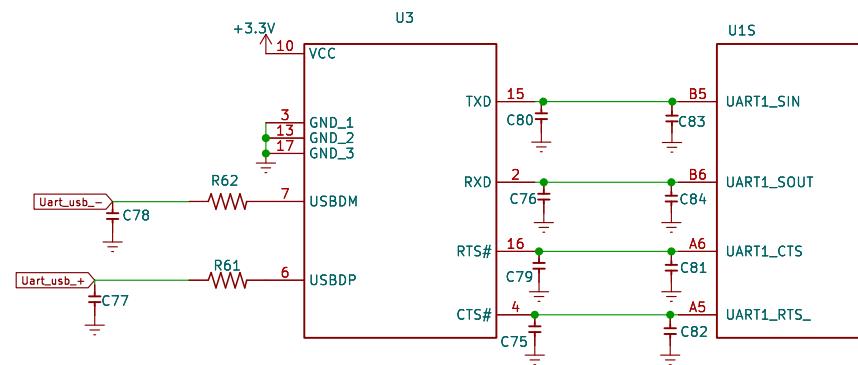
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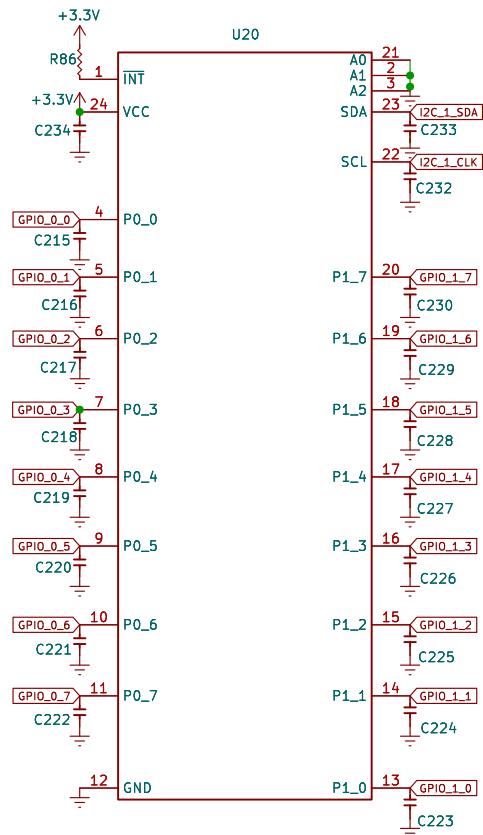
Rev:
Id: 22/35

1 2 3 4 5 6

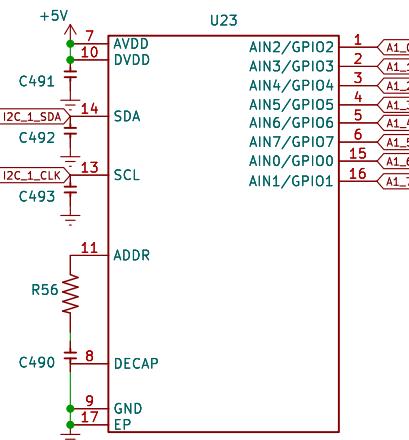
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A

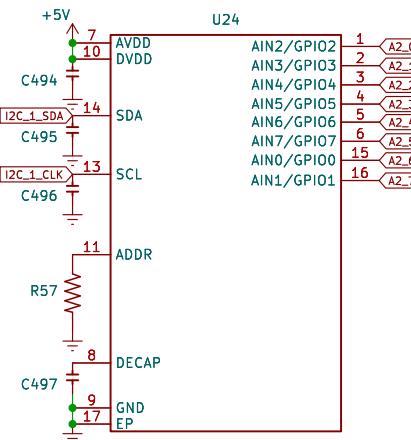
GPIO Controller



Analog 1 Controller



Analog 2 Controller



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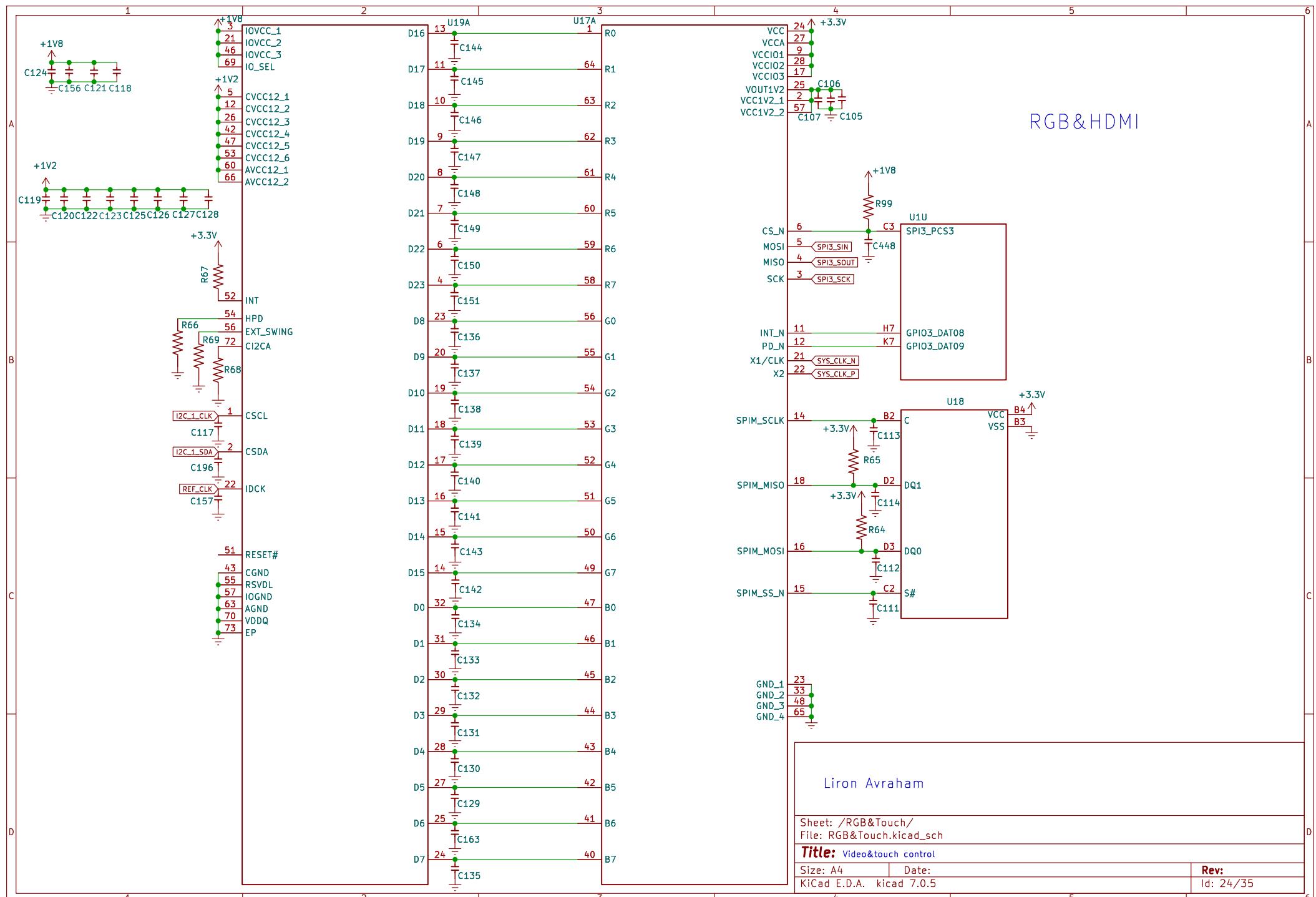
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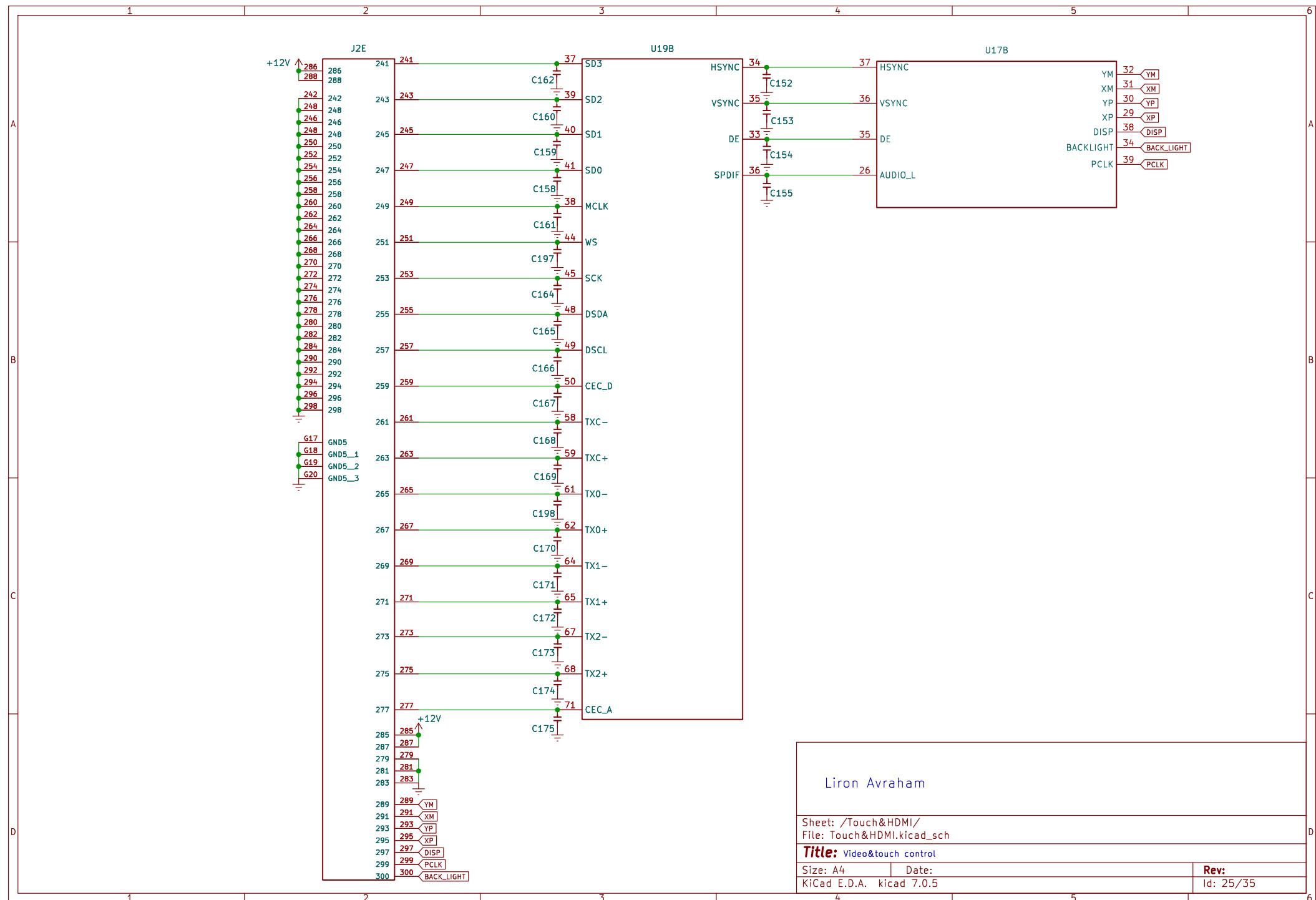
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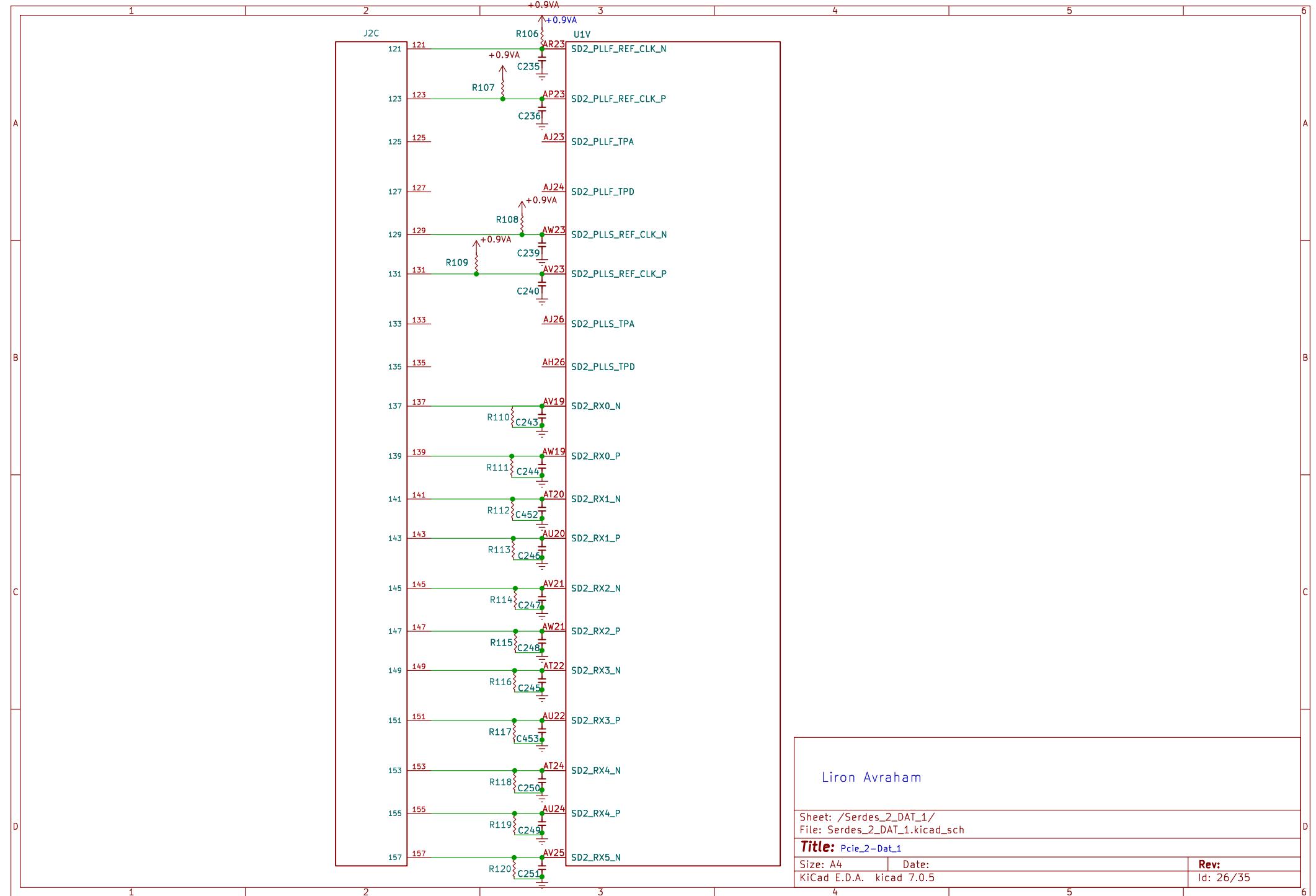
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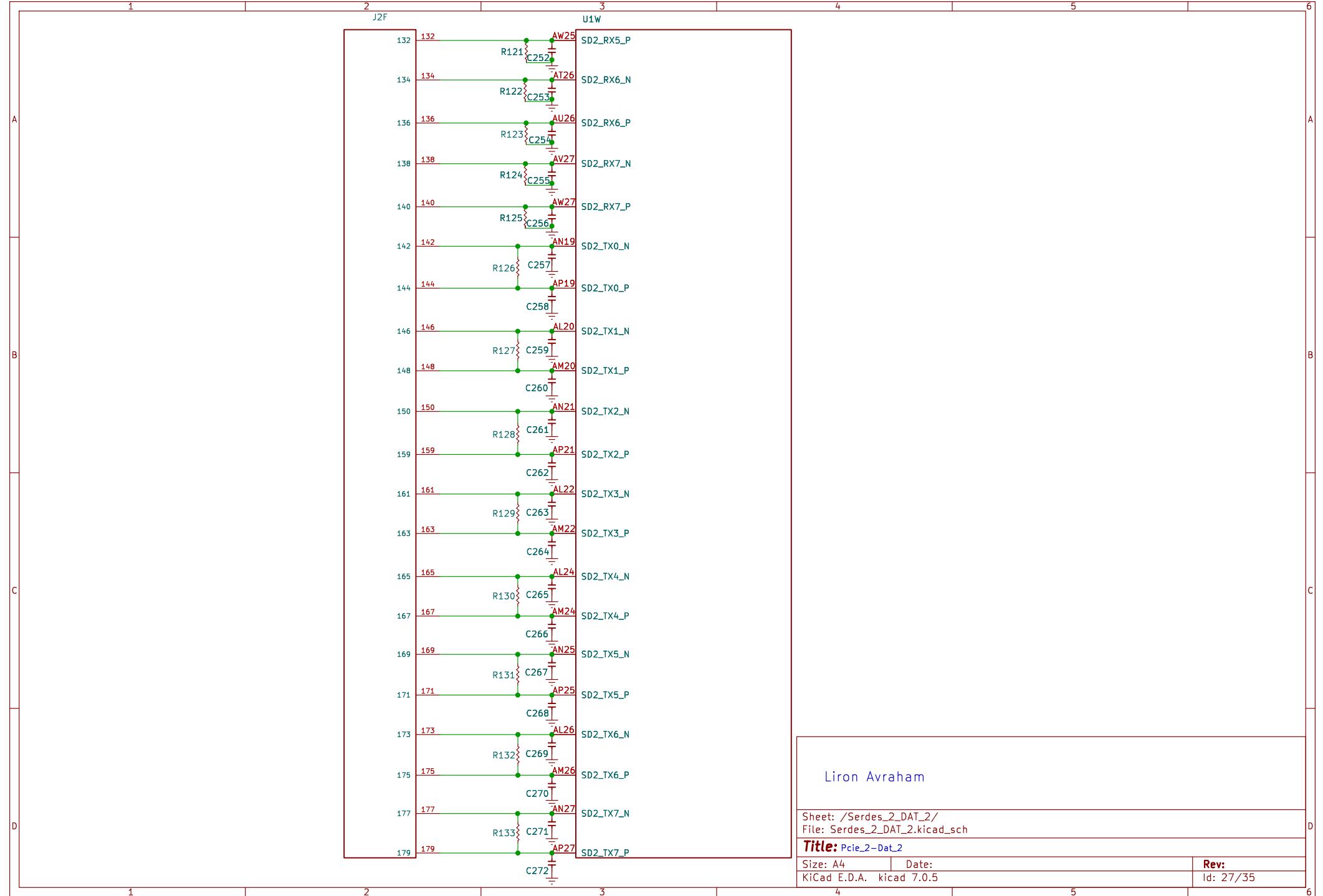
Rev:
Id: 23/35

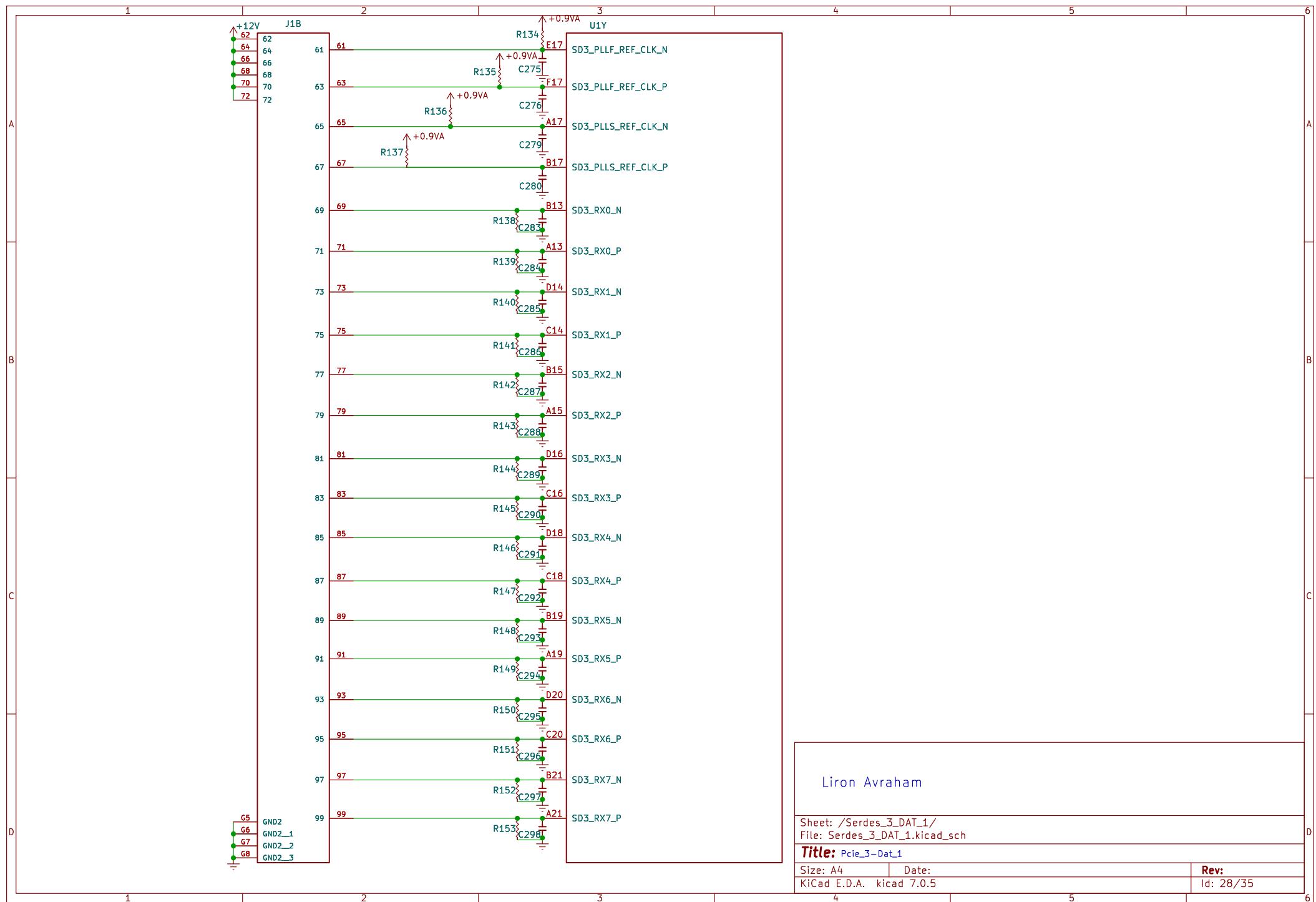
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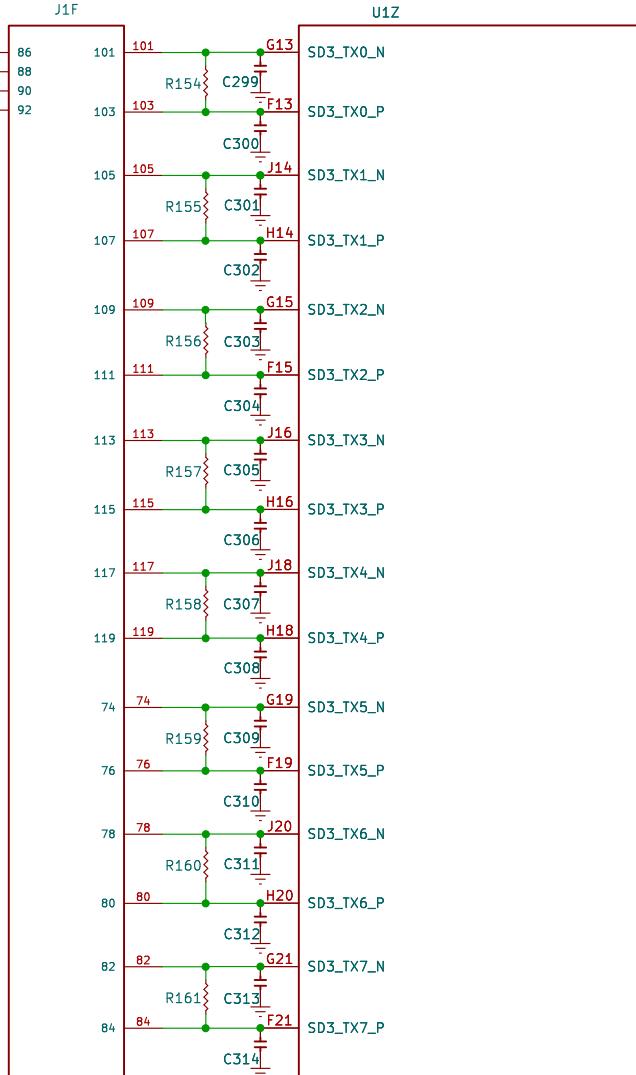
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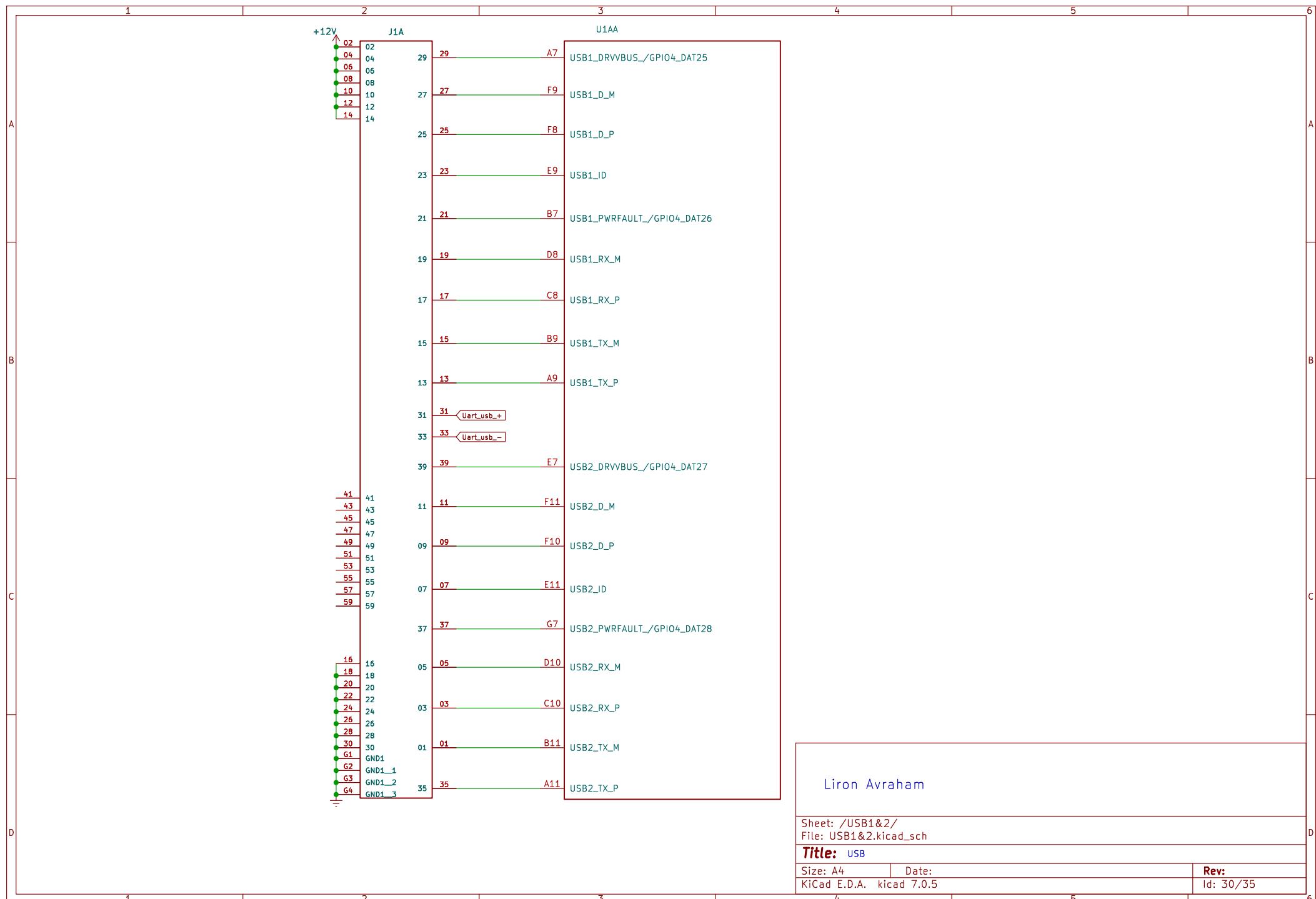
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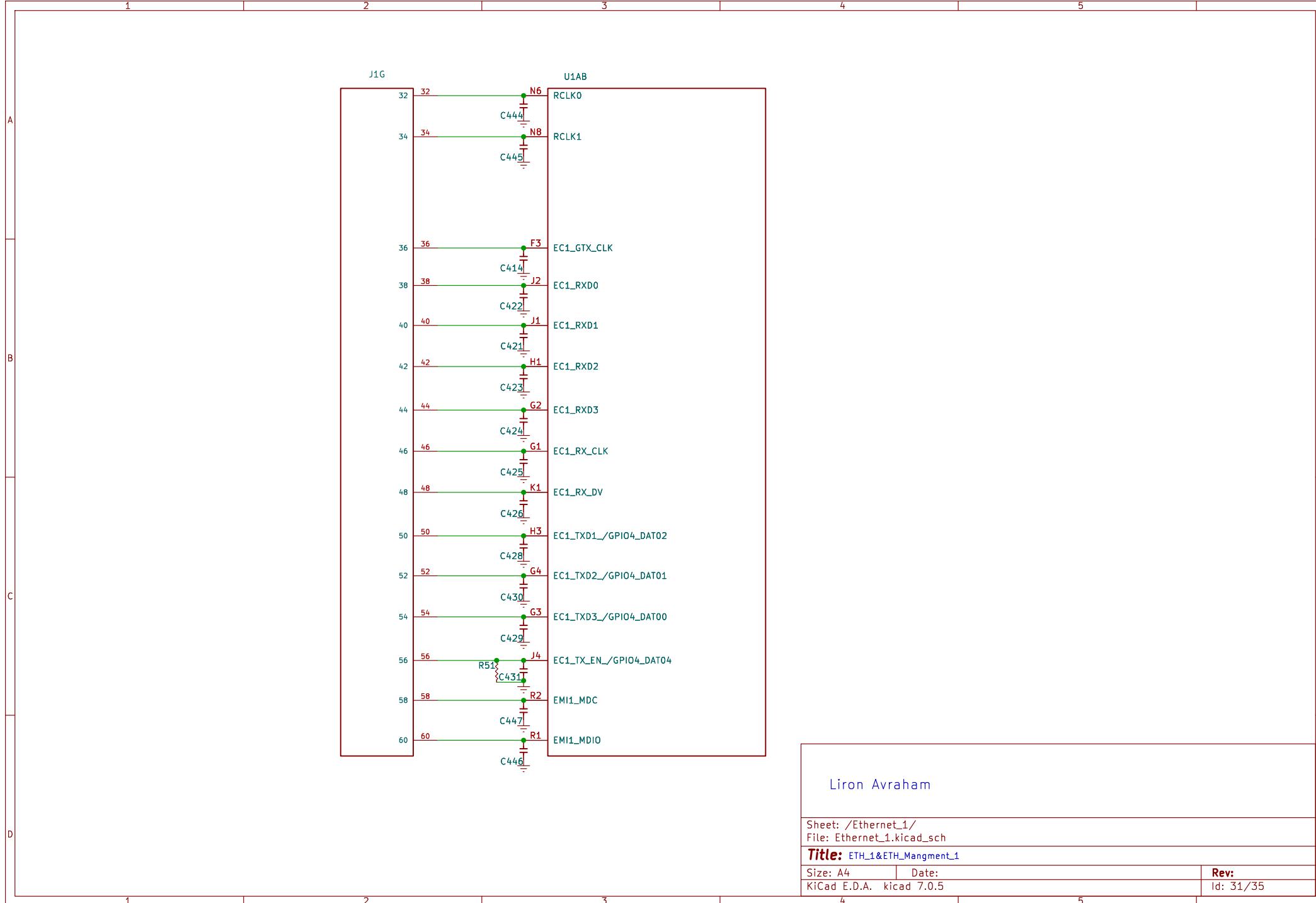
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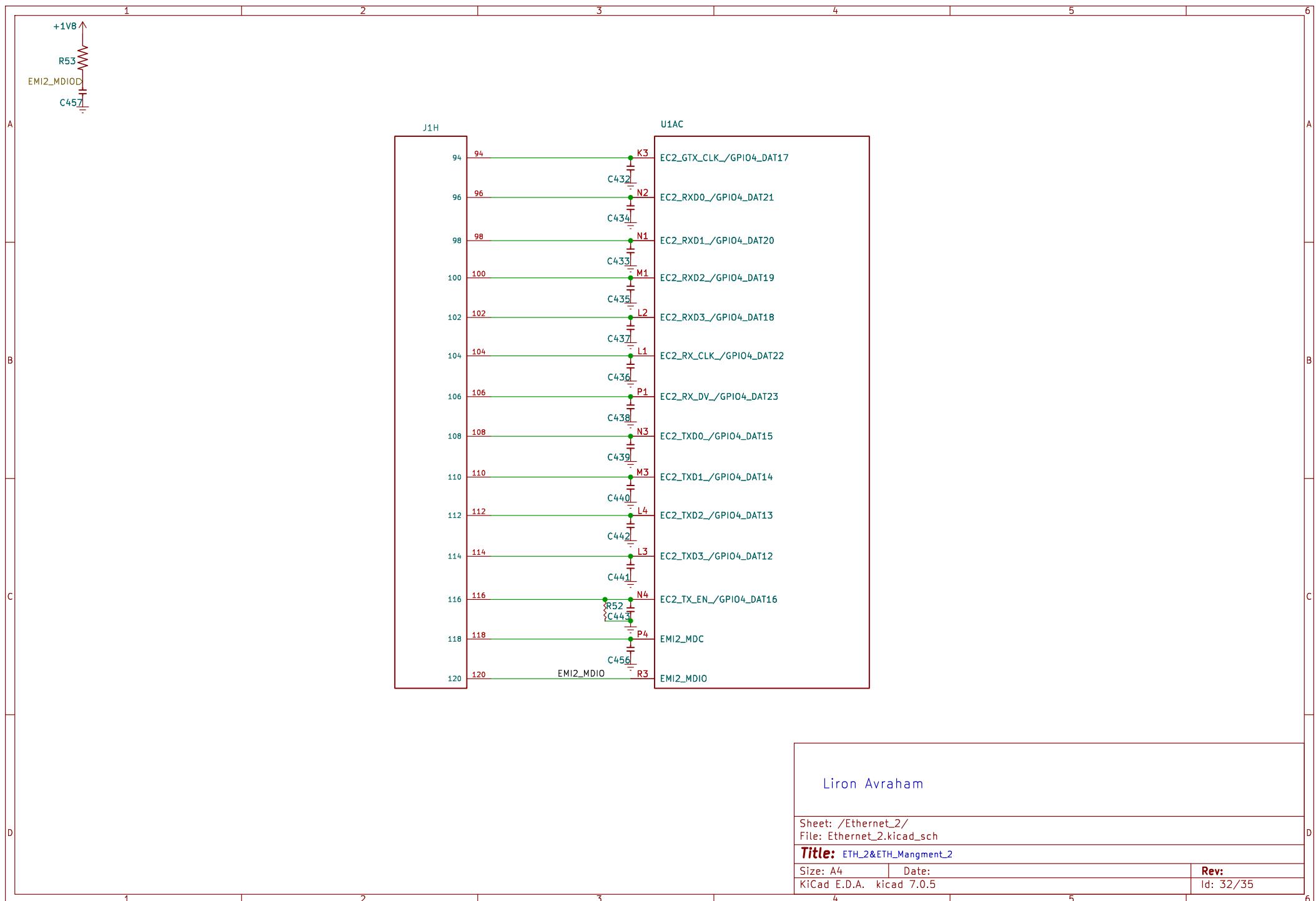
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Rev:
Id: 29/35







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Size: A4 Date:
KiCad E.D.A. kicad 7.0.5

Rev:
Id: 32/35

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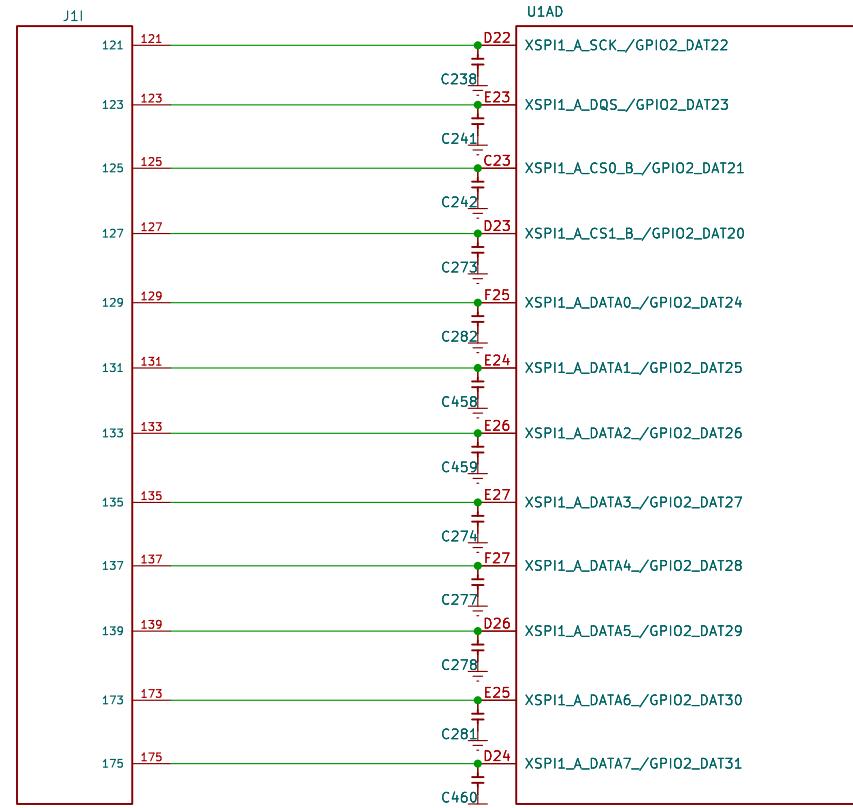
D

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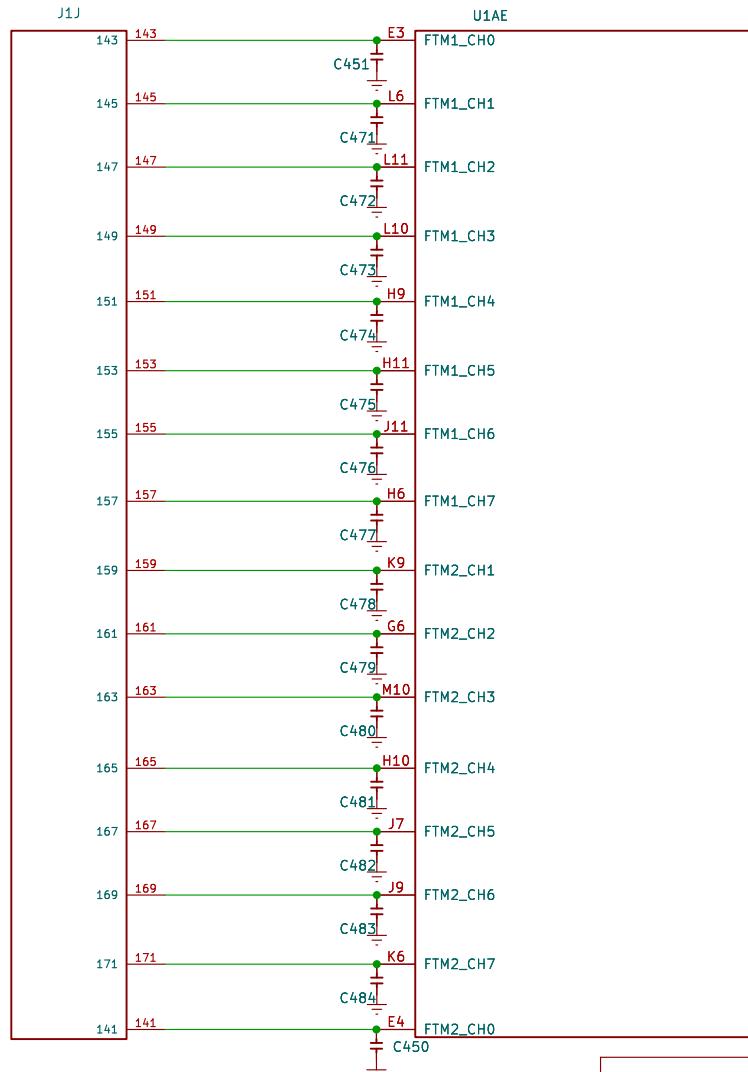
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Rev:
Id: 33/35



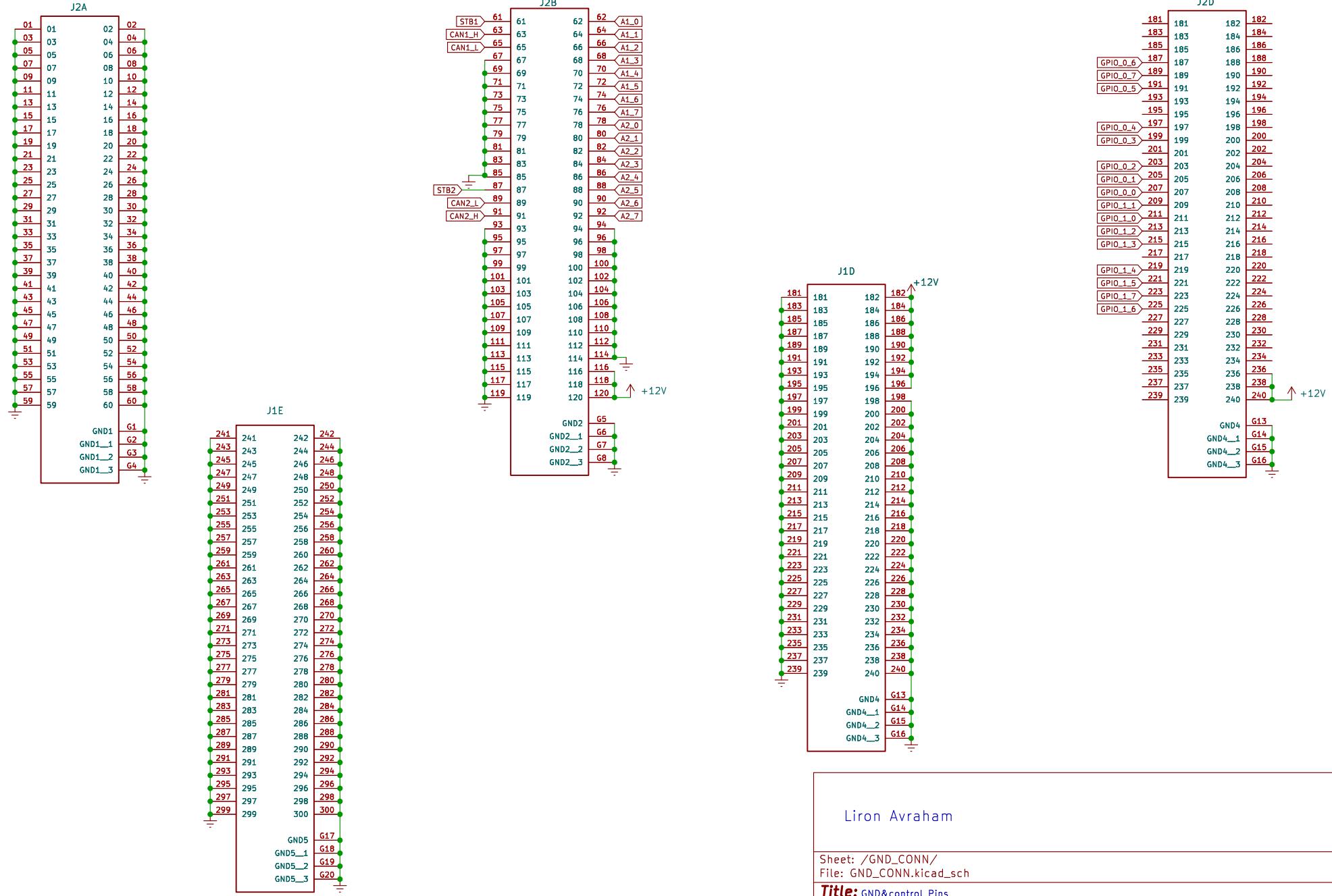
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Size: A4 Date:
KiCad E.D.A. kicad 7.0.5

Rev:
Id: 34/35



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Sheet: /GND_CONN/
File: GND_CONN.kicad_sch

Title: GND&control Pins

Size: A4 Date:
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Rev:
Id: 35/35