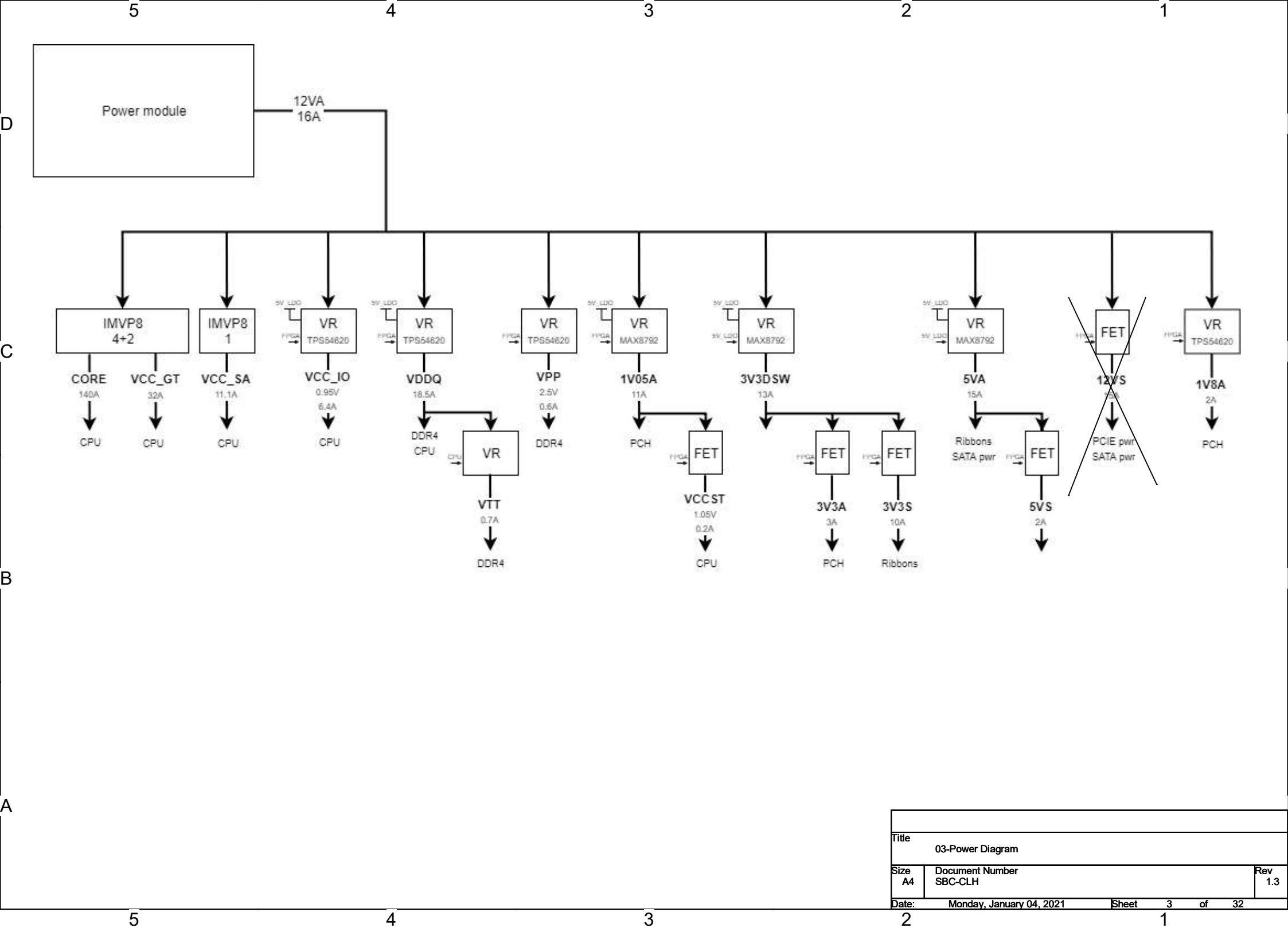
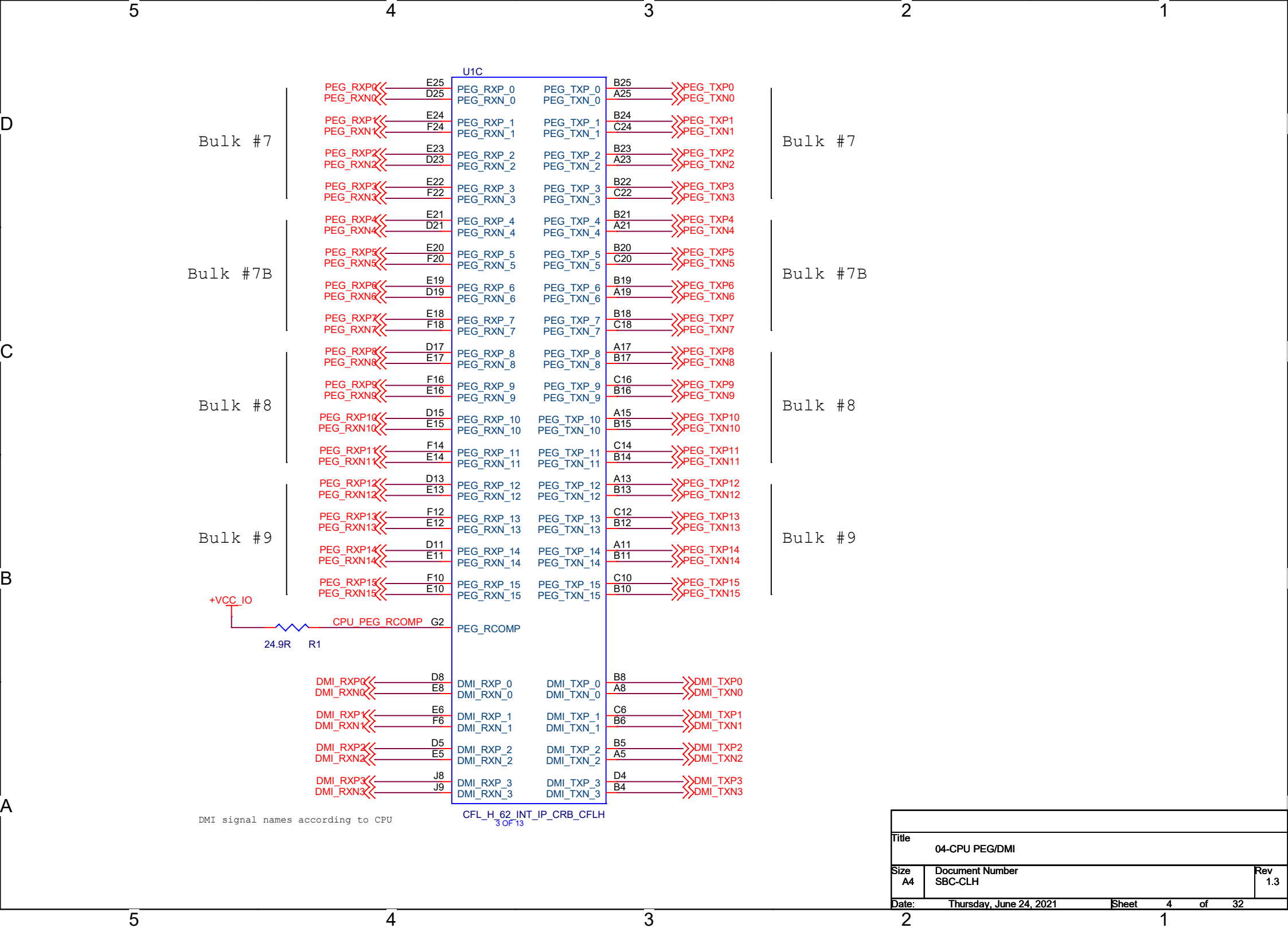
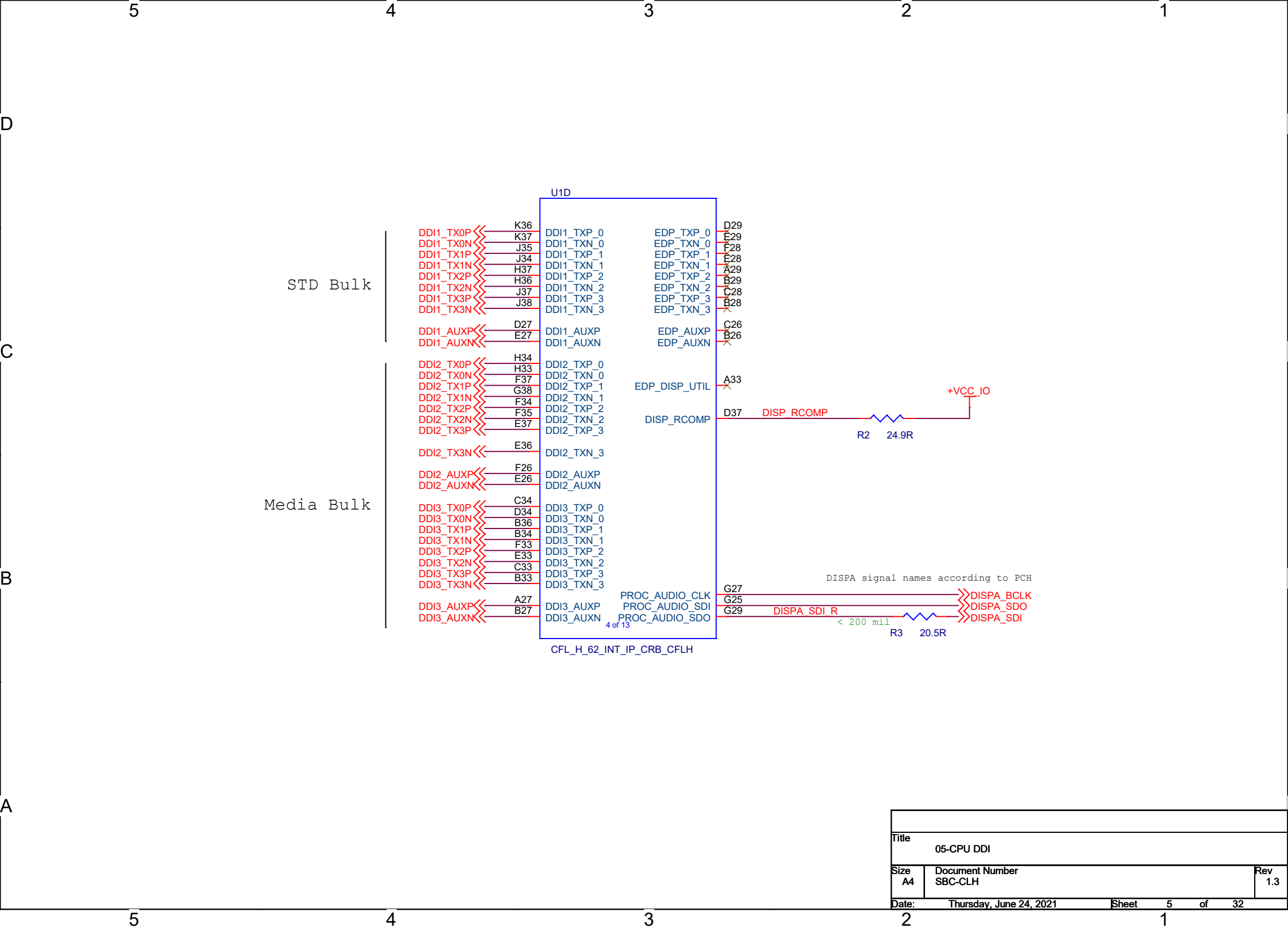


Title		
02-Block Diagram		
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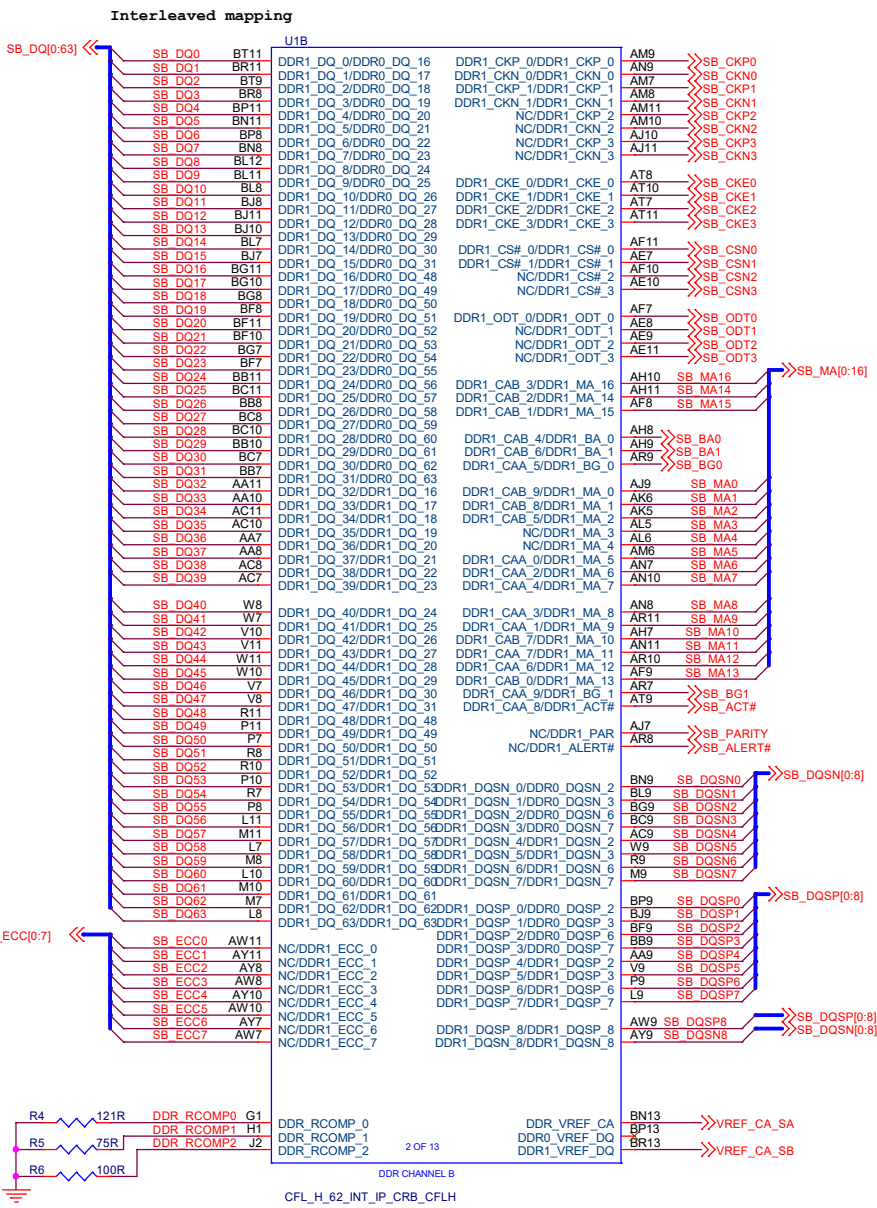
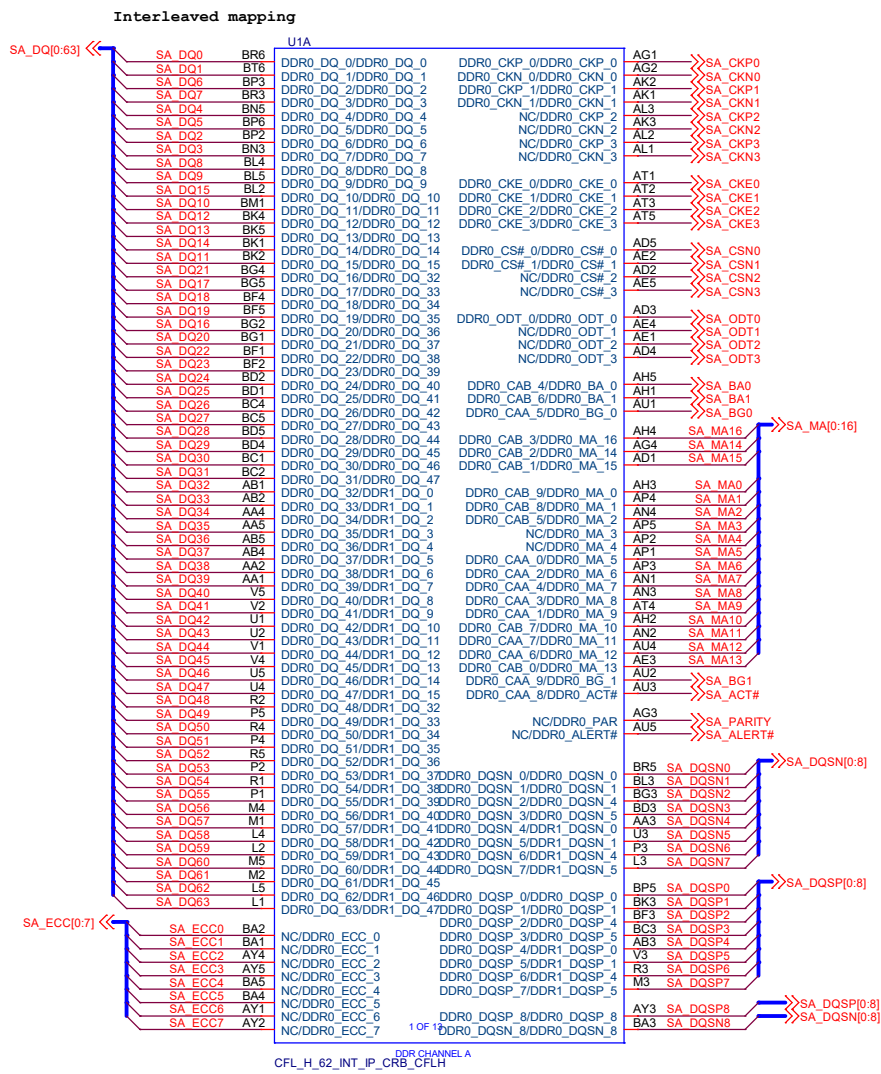




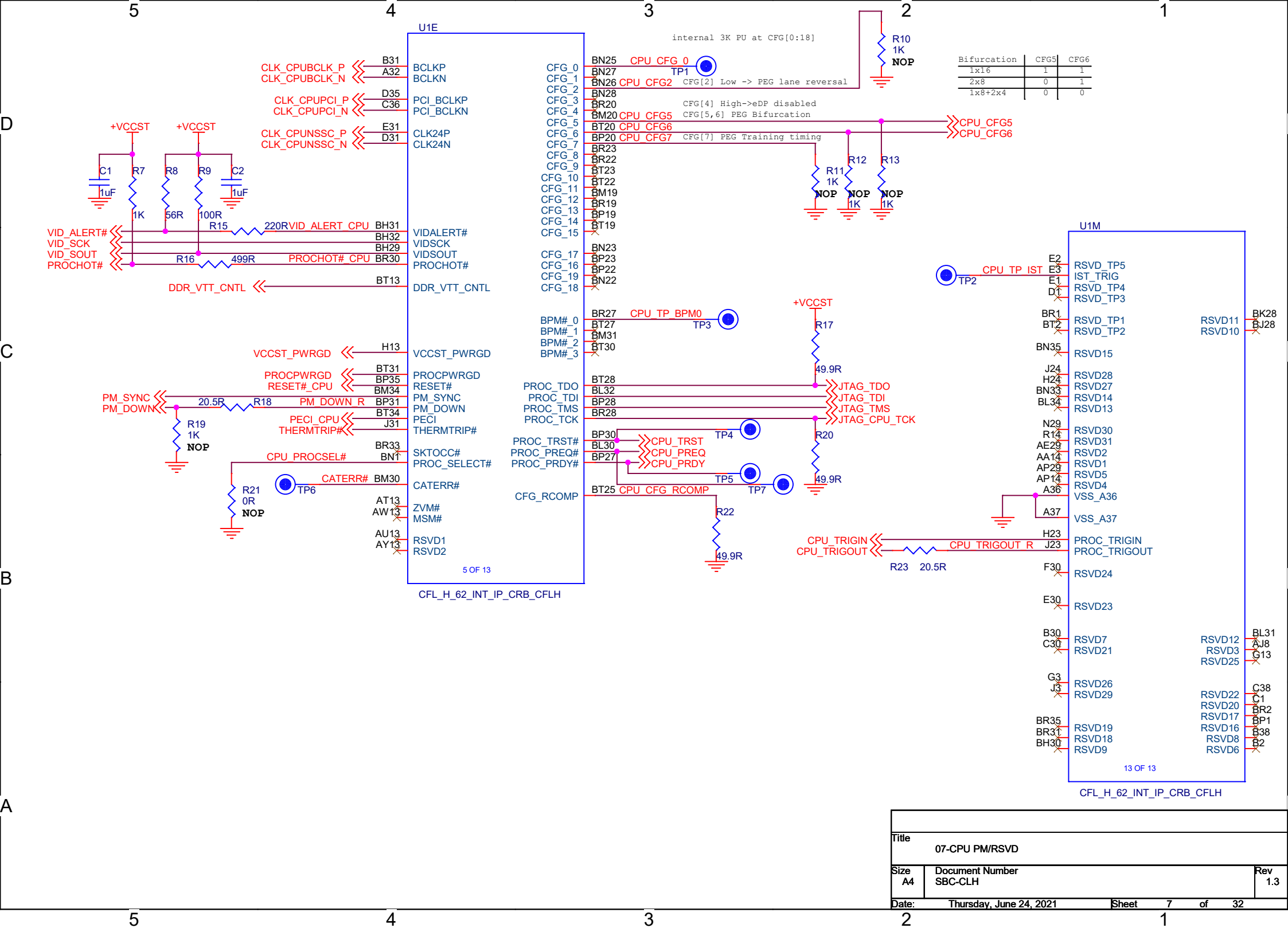
Title		
05-CPU DDI		
Size	Document Number	Rev
A4	SBC-CLH	1.3
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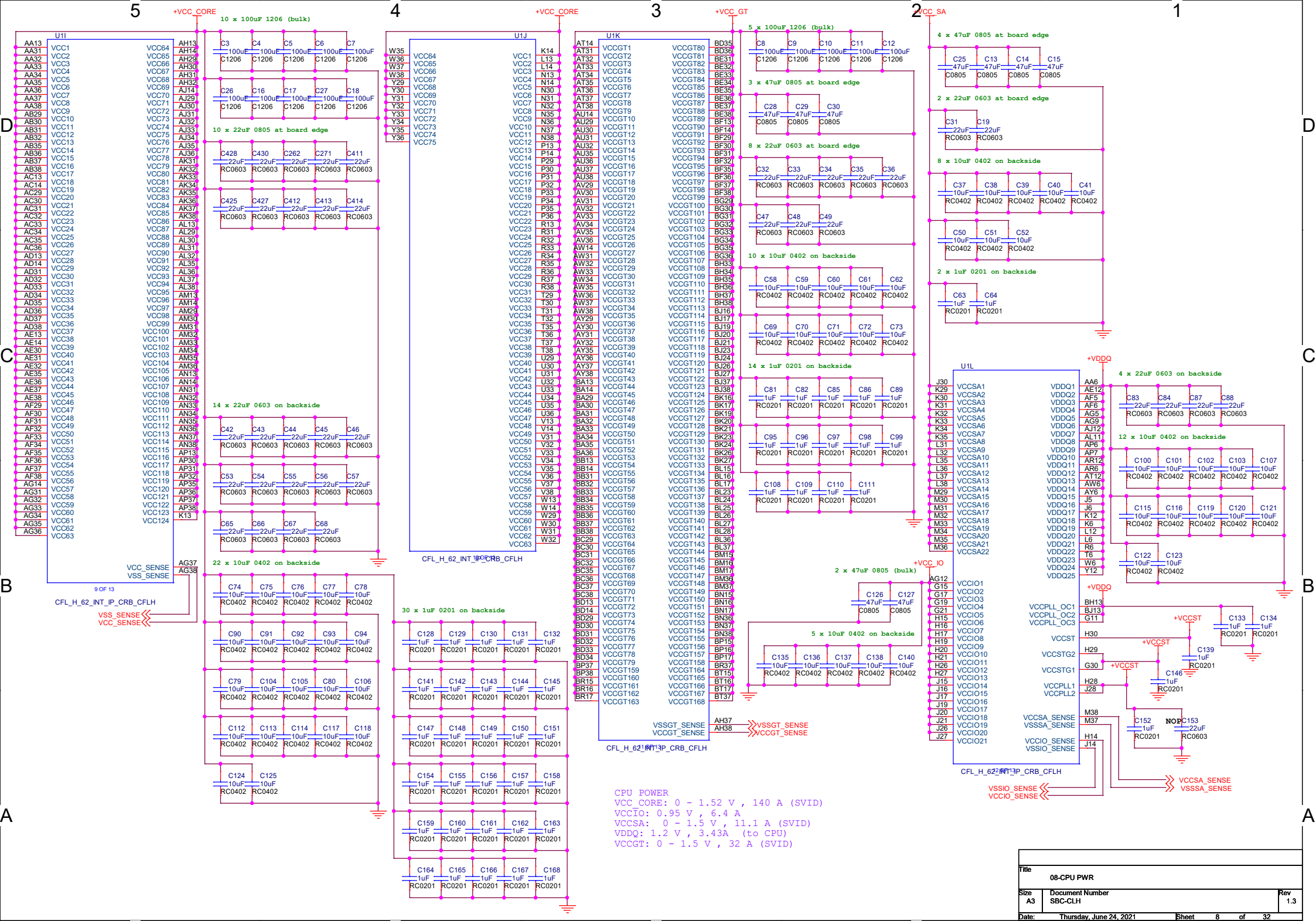
Data bits can be swapped within a byte

Data bits can be swapped within a byte



Title		
06-CPU DDR4		
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U1F			
A10	VSS 1	VSS 82	AK4
A12	VSS 2	VSS 83	AL10
A16	VSS 3	VSS 84	AL12
A18	VSS 4	VSS 85	AL14
A20	VSS 5	VSS 86	AL33
A22	VSS 6	VSS 87	AL34
A24	VSS 7	VSS 88	AL4
A26	VSS 8	VSS 89	AL7
A28	VSS 9	VSS 90	AL8
A30	VSS 10	VSS 91	AL9
A6	VSS 11	VSS 92	AM1
A9	VSS 12	VSS 93	AM2
AA12	VSS 13	VSS 94	AM3
AA29	VSS 14	VSS 95	AM37
AA30	VSS 15	VSS 96	AM38
AB33	VSS 16	VSS 97	AM4
AB34	VSS 17	VSS 98	AM5
AB6	VSS 18	VSS 99	AN12
AC1	VSS 19	VSS 100	AN29
AC12	VSS 20	VSS 101	AN30
AC2	VSS 21	VSS 102	AN5
AC37	VSS 22	VSS 103	AN6
AC38	VSS 23	VSS 104	AP10
AC4	VSS 24	VSS 105	AP11
AC5	VSS 25	VSS 106	AP12
AC6	VSS 26	VSS 107	AP18
AD10	VSS 27	VSS 108	AP34
AD11	VSS 28	VSS 109	AP9
AD12	VSS 29	VSS 110	AR1
AD29	VSS 30	VSS 111	AR2
AD30	VSS 31	VSS 112	AR3
AD6	VSS 32	VSS 113	AR31
AD8	VSS 33	VSS 114	AR32
AD9	VSS 34	VSS 115	AR33
AE33	VSS 35	VSS 116	AR34
AE34	VSS 36	VSS 117	AR35
AE6	VSS 37	VSS 118	AR36
AF1	VSS 38	VSS 119	AR37
AF12	VSS 39	VSS 120	AR38
AF13	VSS 40	VSS 121	AR4
AF14	VSS 41	VSS 122	AR5
AF2	VSS 42	VSS 123	AT29
AF3	VSS 43	VSS 124	AT30
AF4	VSS 44	VSS 125	AT6
AG10	VSS 45	VSS 126	AU10
AG11	VSS 46	VSS 127	AU11
AG13	VSS 47	VSS 128	AU12
AG29	VSS 48	VSS 129	AU33
AG30	VSS 49	VSS 130	AU34
AG6	VSS 50	VSS 131	AU6
AG7	VSS 51	VSS 132	AU7
AG8	VSS 52	VSS 133	AU8
AH12	VSS 53	VSS 134	AU9
AH33	VSS 54	VSS 135	AV37
AH34	VSS 55	VSS 136	AV38
AH35	VSS 56	VSS 137	AW1
AH36	VSS 57	VSS 138	AW12
AJ1	VSS 58	VSS 139	AW2
AJ13	VSS 59	VSS 140	AW3
AJ2	VSS 60	VSS 141	AW30
AJ3	VSS 61	VSS 142	AW4
AJ37	VSS 62	VSS 143	U6
AJ38	VSS 63	VSS 144	V12
AJ4	VSS 64	VSS 145	V29
AJ5	VSS 65	VSS 146	V30
AJ6	VSS 66	VSS 147	V3
AJ6	VSS 67	VSS 148	V7
W4	VSS 68	VSS 149	W1
W5	VSS 69	VSS 150	W12
Y10	VSS 70	VSS 151	W2
Y11	VSS 71	VSS 152	W3
Y13	VSS 72	VSS 153	W33
Y14	VSS 73	VSS 154	W34
Y37	VSS 74	VSS 155	
Y38	VSS 75	VSS 156	
Y7	VSS 76	VSS 157	
Y8	VSS 77	VSS 158	
Y9	VSS 78	VSS 159	
Y9	VSS 79	VSS 160	
AK29	VSS 80	VSS 161	
AK30	VSS 81	VSS 162	

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CFL_H_62_INT_IP_CRB_CFLH

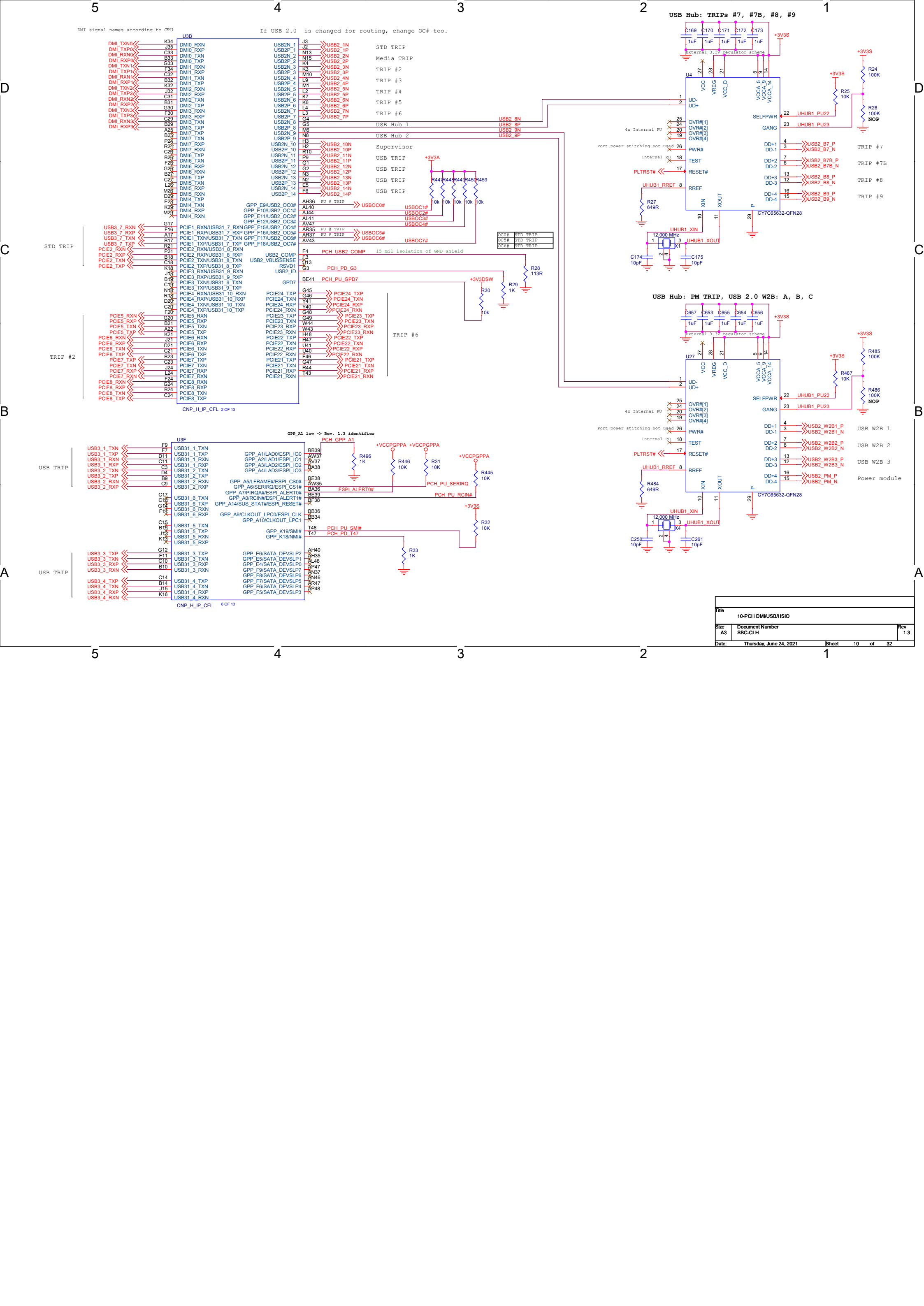
U1G			
AW5	VSS 163	VSS 244	BJ15
AY12	VSS 164	VSS 245	BJ18
AY33	VSS 165	VSS 246	BJ22
AY34	VSS 166	VSS 247	BJ25
B9	VSS 167	VSS 248	BJ29
BA10	VSS 168	VSS 249	BJ30
BA11	VSS 169	VSS 250	BJ31
BA12	VSS 170	VSS 251	BJ32
BA37	VSS 171	VSS 252	BJ33
BA38	VSS 172	VSS 253	BJ34
BA6	VSS 173	VSS 254	BJ35
BA7	VSS 174	VSS 255	BJ36
BA9	VSS 175	VSS 256	BJ3
BB1	VSS 176	VSS 257	BJ14
BB12	VSS 177	VSS 258	BJ15
BB2	VSS 178	VSS 259	BJ18
BB29	VSS 179	VSS 260	BJ22
BB3	VSS 180	VSS 261	BJ25
BB30	VSS 181	VSS 262	BJ29
BB4	VSS 182	VSS 263	BJ30
BB5	VSS 183	VSS 264	BJ31
BB6	VSS 184	VSS 265	BJ32
BC12	VSS 185	VSS 266	BJ33
BC13	VSS 186	VSS 267	BJ34
BC14	VSS 187	VSS 268	BJ35
BC3	VSS 188	VSS 269	BJ36
BC34	VSS 189	VSS 270	BJ3
BC6	VSS 190	VSS 271	BJ14
BD10	VSS 191	VSS 272	BJ15
BD11	VSS 192	VSS 273	BJ18
BD37	VSS 193	VSS 274	BJ22
BD6	VSS 194	VSS 275	BJ25
BD7	VSS 195	VSS 276	BJ29
BD9	VSS 196	VSS 277	BJ30
BD8	VSS 197	VSS 278	BJ31
BE1	VSS 198	VSS 279	BJ32
BE2	VSS 199	VSS 280	BJ33
BE29	VSS 200	VSS 281	BJ34
BE3	VSS 201	VSS 282	BJ35
BE34	VSS 202	VSS 283	BJ36
BE4	VSS 203	VSS 284	BJ3
BE5	VSS 204	VSS 285	BJ14
BE6	VSS 205	VSS 286	BJ15
BE6	VSS 206	VSS 287	BJ18
BF12	VSS 207	VSS 288	BJ22
BF33	VSS 208	VSS 289	BJ25
BF34	VSS 209	VSS 290	BJ29
BF6	VSS 210	VSS 291	BJ30
BG12	VSS 211	VSS 292	BJ31
BG13	VSS 212	VSS 293	BJ32
BG14	VSS 213	VSS 294	BJ33
BG37	VSS 214	VSS 295	BJ34
BG38	VSS 215	VSS 296	BJ35
BG6	VSS 216	VSS 297	BJ36
BH1	VSS 217	VSS 298	BJ3
BH10	VSS 218	VSS 299	BJ14
BH11	VSS 219	VSS 300	BJ15
BH12	VSS 220	VSS 301	BJ18
BH14	VSS 221	VSS 302	BJ22
BH2	VSS 222	VSS 303	BJ25
BH3	VSS 223	VSS 304	BJ29
BH4	VSS 224	VSS 305	BJ30
BH5	VSS 225	VSS 306	BJ31
BH7	VSS 226	VSS 307	BJ32
BH8	VSS 227	VSS 308	BJ33
BH9	VSS 228	VSS 309	BJ34
BH9	VSS 229	VSS 310	BJ35
I2	VSS 230	VSS 311	BJ36
I3	VSS 231	VSS 312	BJ3
I33	VSS 232	VSS 313	BJ14
I34	VSS 233	VSS 314	BJ15
I4	VSS 234	VSS 315	BJ18
I5	VSS 235	VSS 316	BJ22
I7	VSS 236	VSS 317	BJ25
I8	VSS 237	VSS 318	BJ29
I9	VSS 238	VSS 319	BJ30
I37	VSS 239	VSS 320	BJ31
I38	VSS 240	VSS 321	BJ32
I12	VSS 241	VSS 322	BJ33
I14	VSS 242	VSS 323	BJ34
I14	VSS 243	VSS 324	BJ35

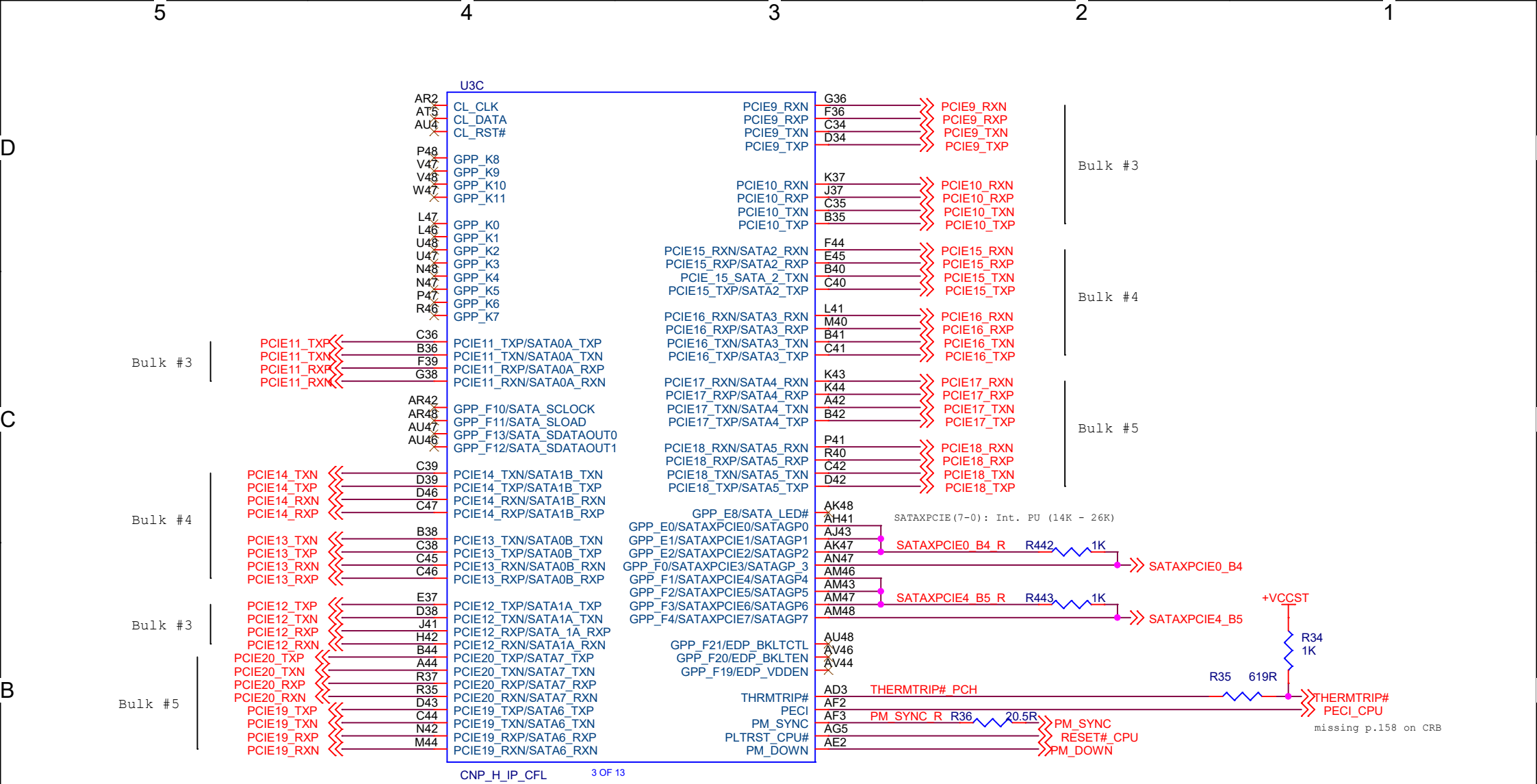
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CFL_H_62_INT_IP_CRB_CFLH

U1H			
BN4	VSS 325	VSS 409	F15
BN7	VSS 326	VSS 410	F17
BP12	VSS 327	VSS 411	F19
BP14	VSS 328	VSS 412	F2
BP18	VSS 329	VSS 413	F21
BP21	VSS 330	VSS 414	F23
BP24	VSS 331	VSS 415	F25
BP25	VSS 332	VSS 416	F27
BP26	VSS 333	VSS 417	F29
BP29	VSS 334	VSS 418	F3
BP33	VSS 335	VSS 419	F31
BP34	VSS 336	VSS 420	F36
BP7	VSS 337	VSS 421	F4
BR12	VSS 338	VSS 422	F5
BR14	VSS 339	VSS 423	F8
BR18	VSS 340	VSS 424	F9
BR21	VSS 341	VSS 425	G10
BR24	VSS 342	VSS 426	G12
BR25	VSS 343	VSS 427	G14
BR26	VSS 344	VSS 428	G16
BR29	VSS 345	VSS 429	G18
BR34	VSS 346	VSS 430	G20
BR36	VSS 347	VSS 431	G22
BR7	VSS 348	VSS 432	G23
BT12	VSS 349	VSS 433	G24
BT14	VSS 350	VSS 434	G26
BT21	VSS 351	VSS 435	G28
BT24	VSS 352	VSS 436	G4
BT26	VSS 353	VSS 437	G5
BT29	VSS 354	VSS 438	G6
BT32	VSS 355	VSS 439	G9
BT5	VSS 356	VSS 440	H11
C11	VSS 357	VSS 441	H12
C13	VSS 358	VSS 442	H18
C15	VSS 359	VSS 443	H22
C17	VSS 360	VSS 444	H25
C19	VSS 361	VSS 445	H32
C21	VSS 362	VSS 446	H35
C23	VSS 363	VSS 447	J10
C25	VSS 364	VSS 448	J18
C27	VSS 365	VSS 449	J22
C29	VSS 366	VSS 450	J25
C31	VSS 367	VSS 451	J32
C37	VSS 368	VSS 452	J33
C5	VSS 369	VSS 453	J36
C6	VSS 370	VSS 454	J4
C9	VSS 371	VSS 455	J7
D10	VSS 372	VSS 456	J10
D12	VSS 373	VSS 457	K10
D14	VSS 374	VSS 458	K11
D16	VSS 375	VSS 459	K2
D18	VSS 376	VSS 460	K3
D20	VSS 377	VSS 461	K38
D22	VSS 378	VSS 462	K4
D24	VSS 379	VSS 463	K5
D26	VSS 380	VSS 464	K7
D28	VSS 381	VSS 465	K8
D3	VSS 382	VSS 466	K9
D30	VSS 383	VSS 467	L29
D33	VSS 384	VSS 468	L30
D6	VSS 385	VSS 469	L33
D9	VSS 386	VSS 470	L34
E34	VSS 387	VSS 471	M12
E36	VSS 388	VSS 472	M13
E38	VSS 389	VSS 473	M18
E4	VSS 390	VSS 474	N10
E9	VSS 391	VSS 475	N11
N3	VSS 392	VSS 476	N12
N33	VSS 393	VSS 477	N2
N34	VSS 394	VSS 478	BT18
N4	VSS 395	VSS 479	BR9
N5	VSS 396	VSS 480	
N6	VSS 397	VSS 481	A3
N8	VSS 398	VSS 482	A34
N9	VSS 399	VSS 483	A4
P12	VSS 400	VSS 484	B3
P17	VSS 401	VSS 485	B37
P19	VSS 402	VSS 486	BR38
M14	VSS 403	VSS 487	BT3
M6	VSS 404	VSS 488	BT35
N1	VSS 405	VSS 489	BT36
F11	VSS 406	VSS 490	BT4
F13	VSS 407	VSS 491	C2
	VSS 408	VSS 492	D38

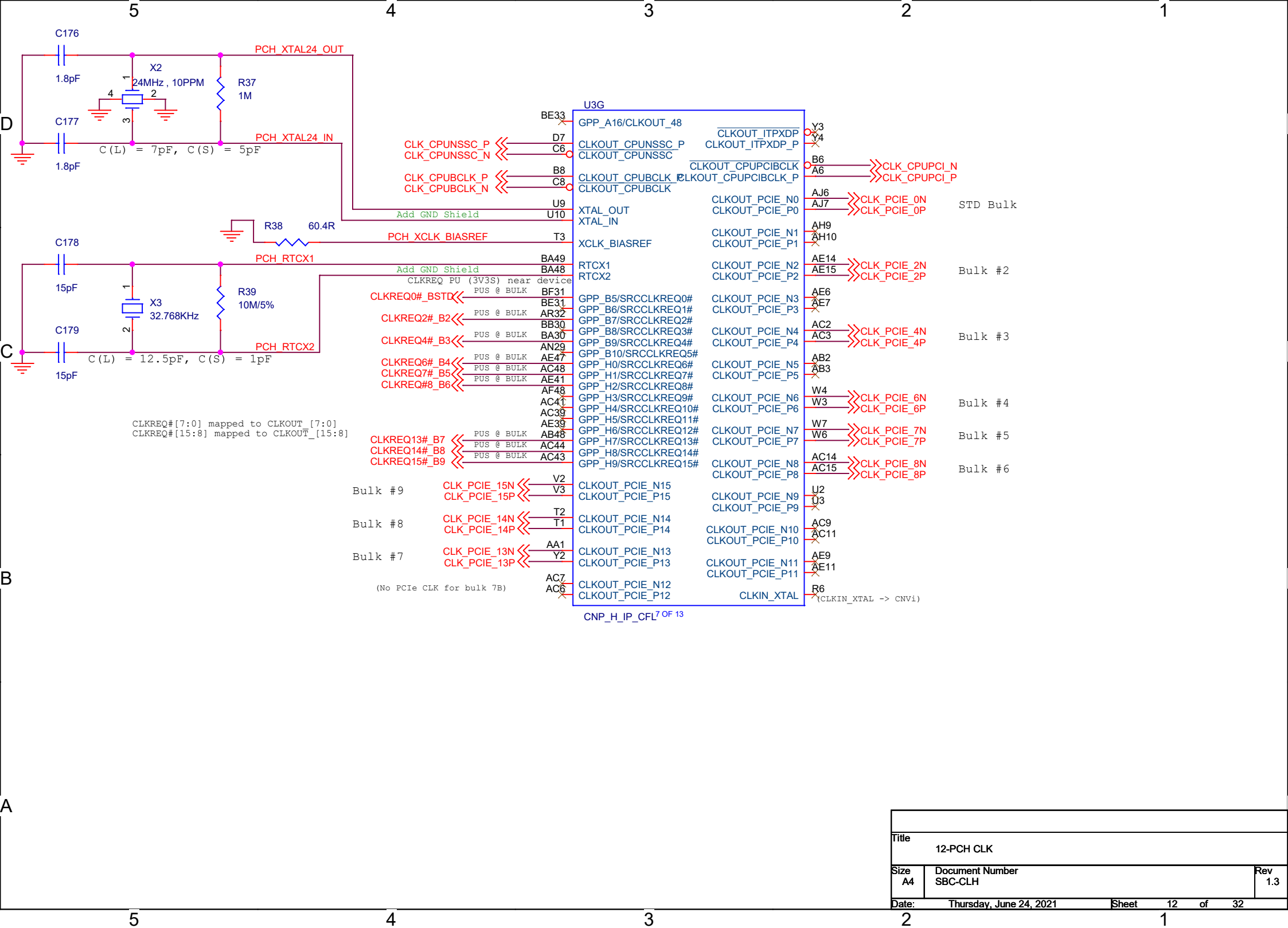
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CFL_H_62_INT_IP_CRB_CFLH

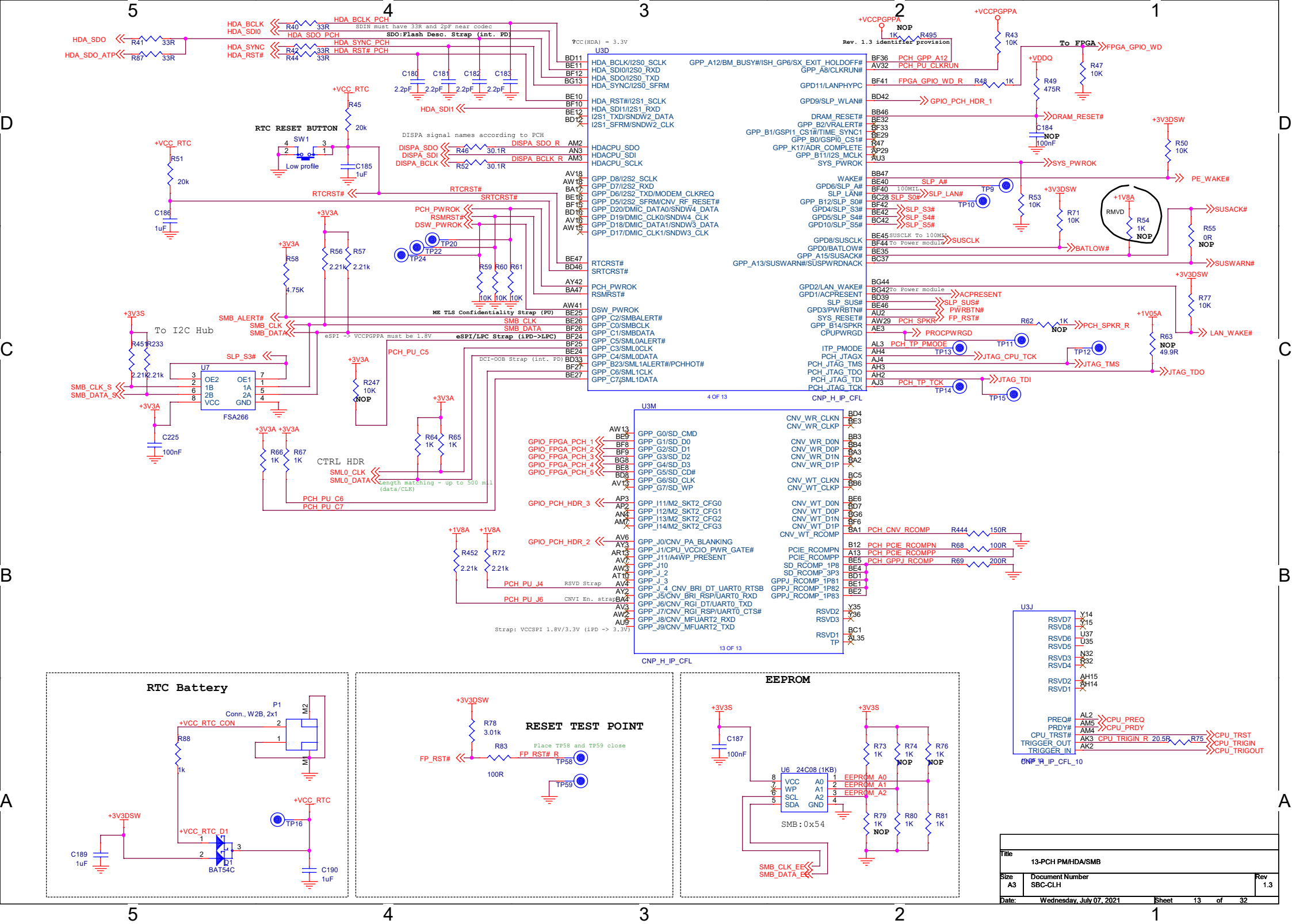
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09-CPU GND			
Size	Document Number	Rev	
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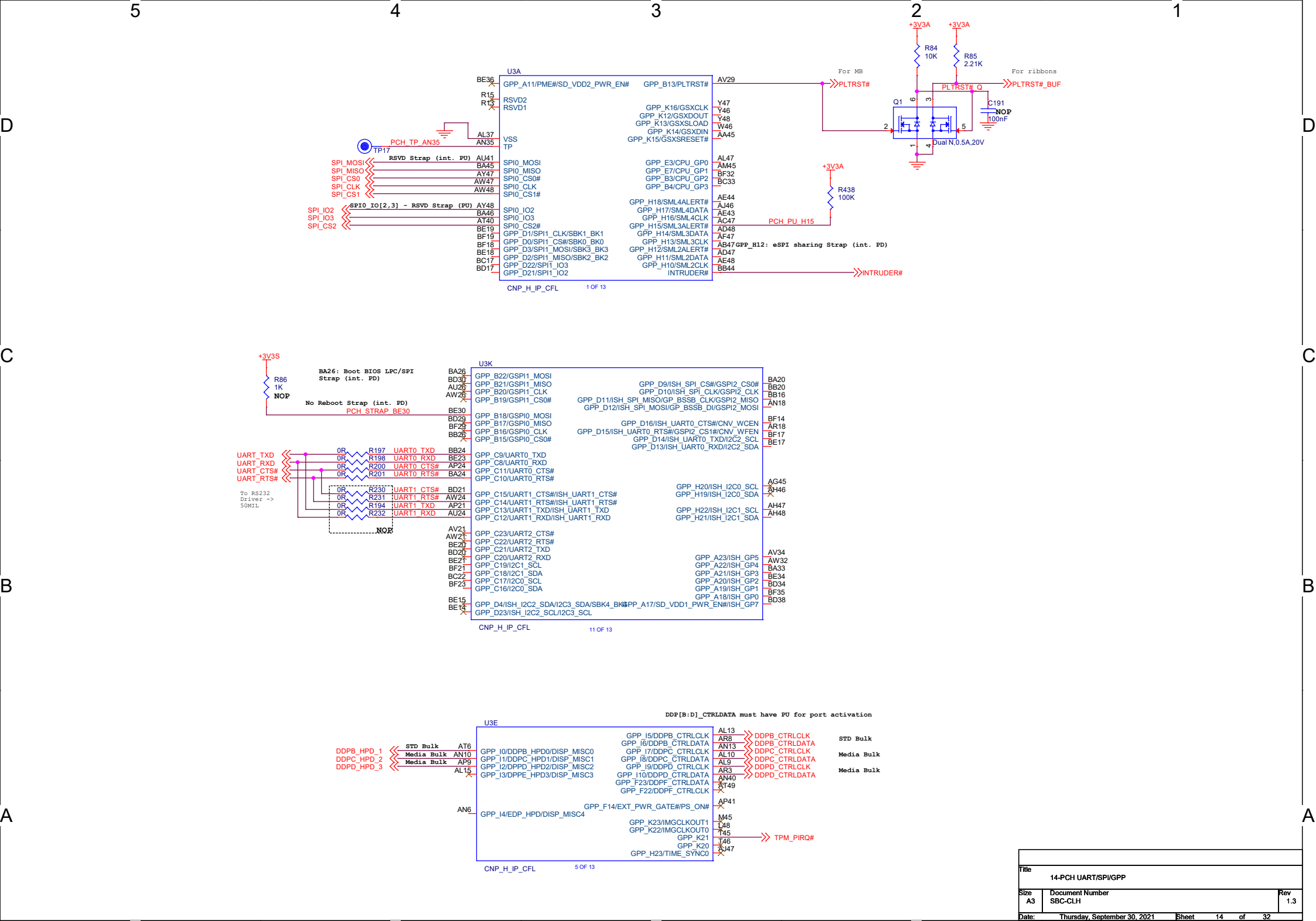


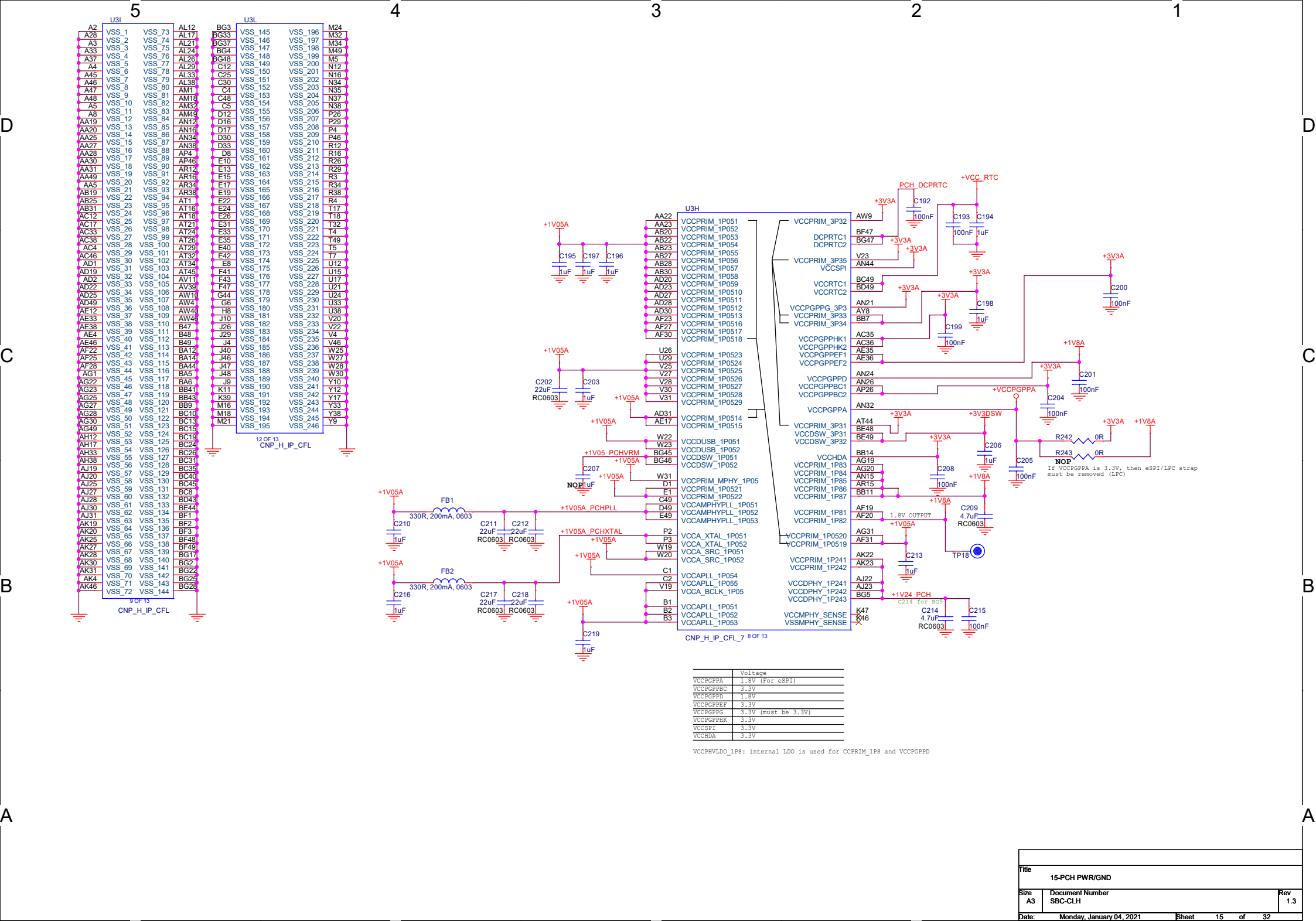


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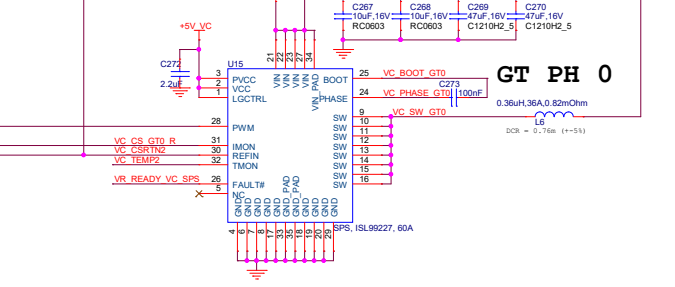
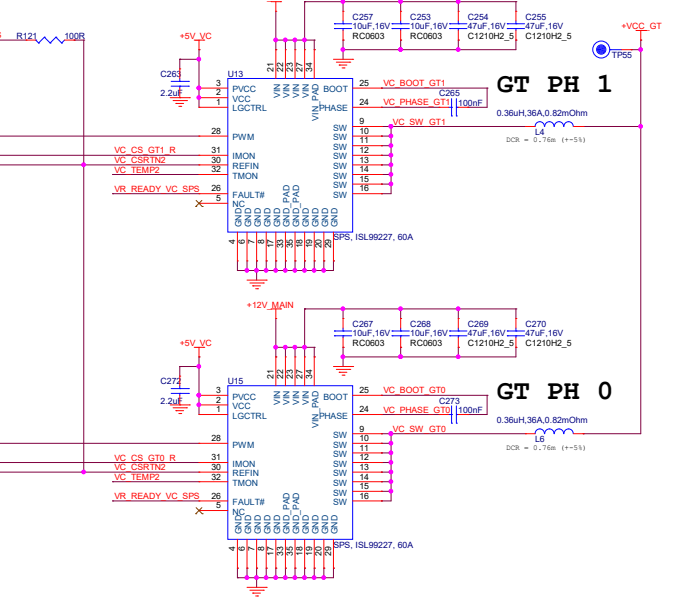
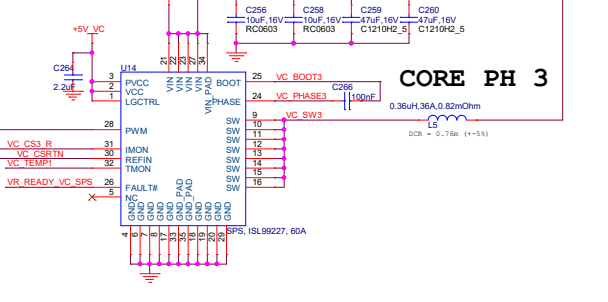
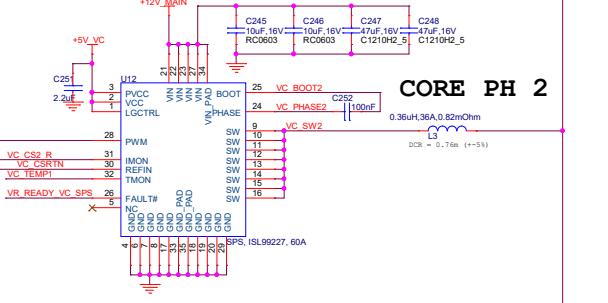
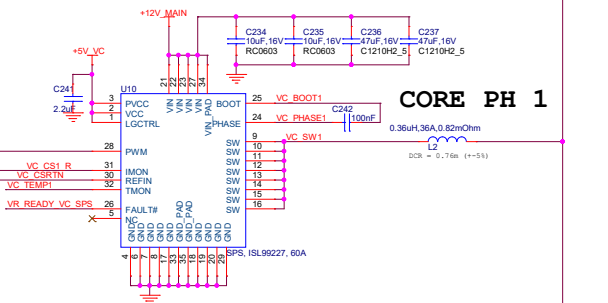
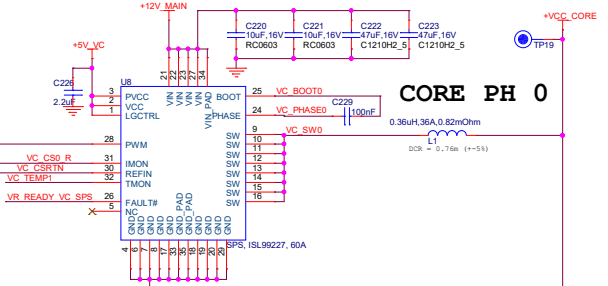
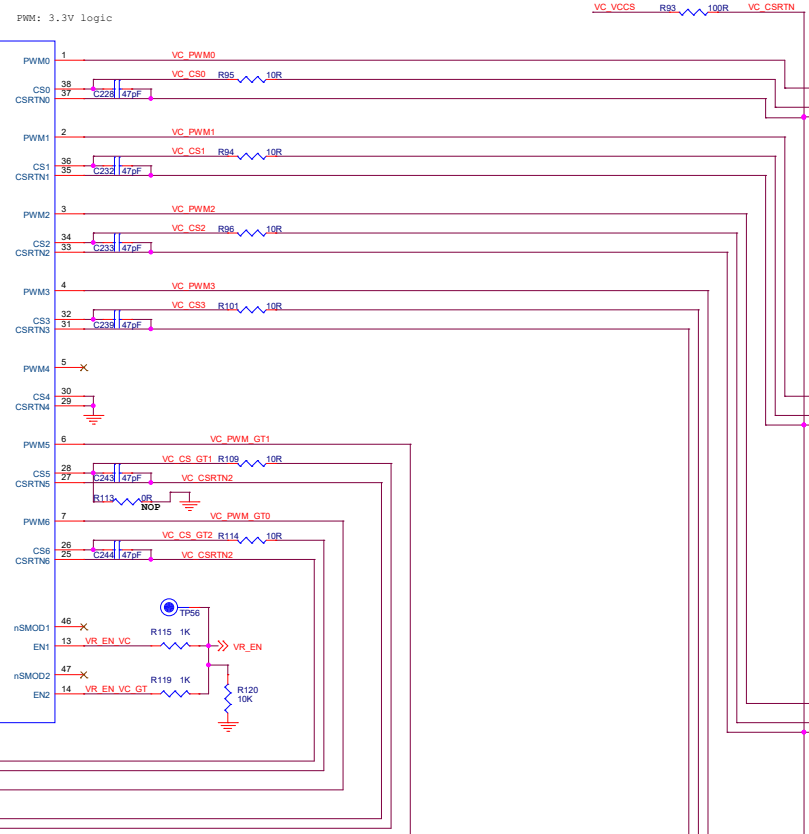




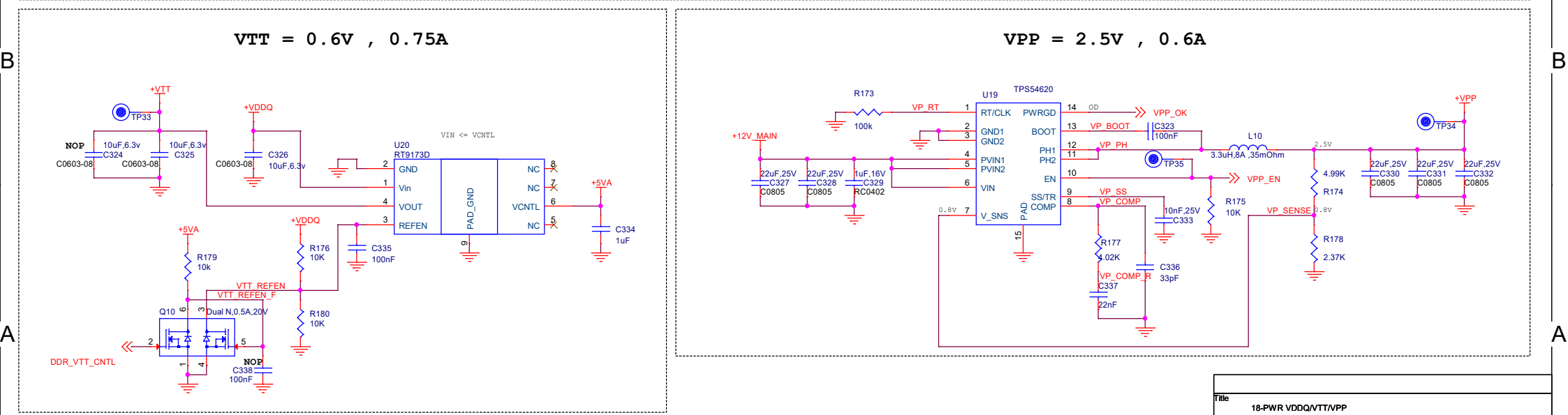
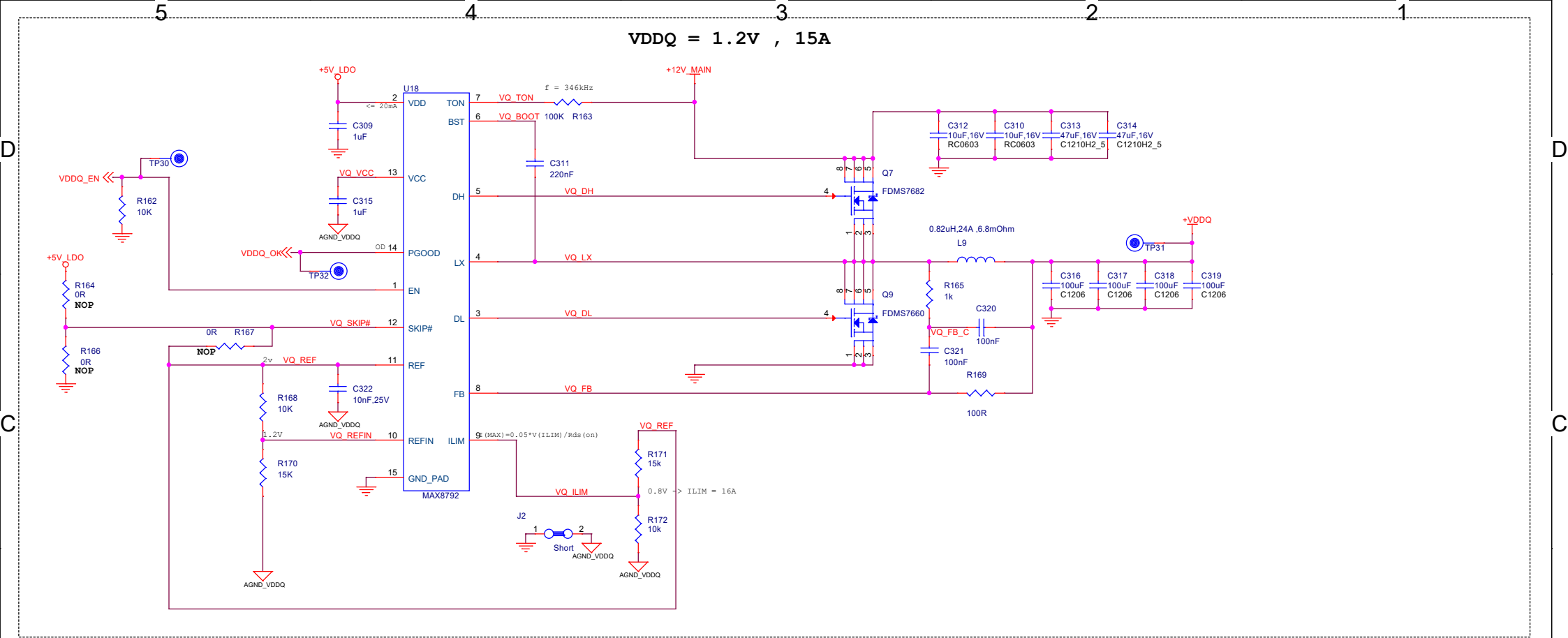


The schematic diagram illustrates the electrical connections for the PMB69137 evaluation board. Key components and connections include:

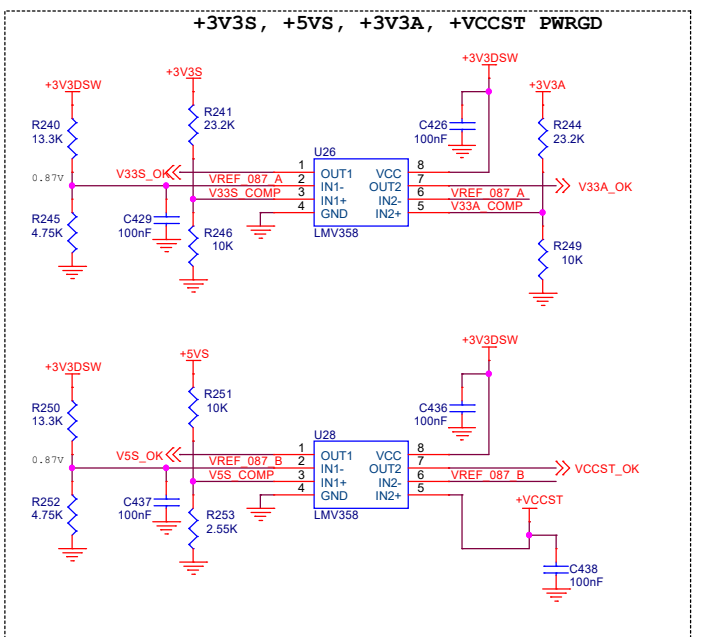
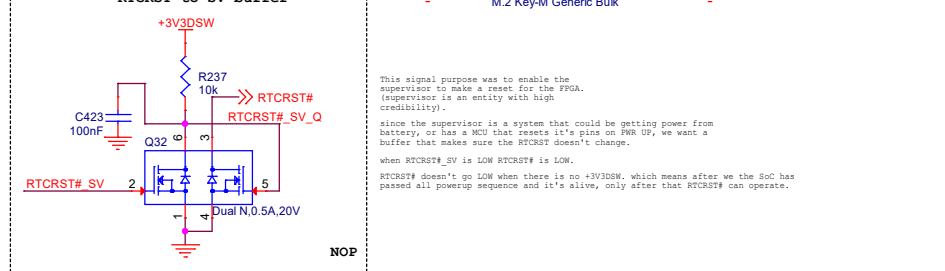
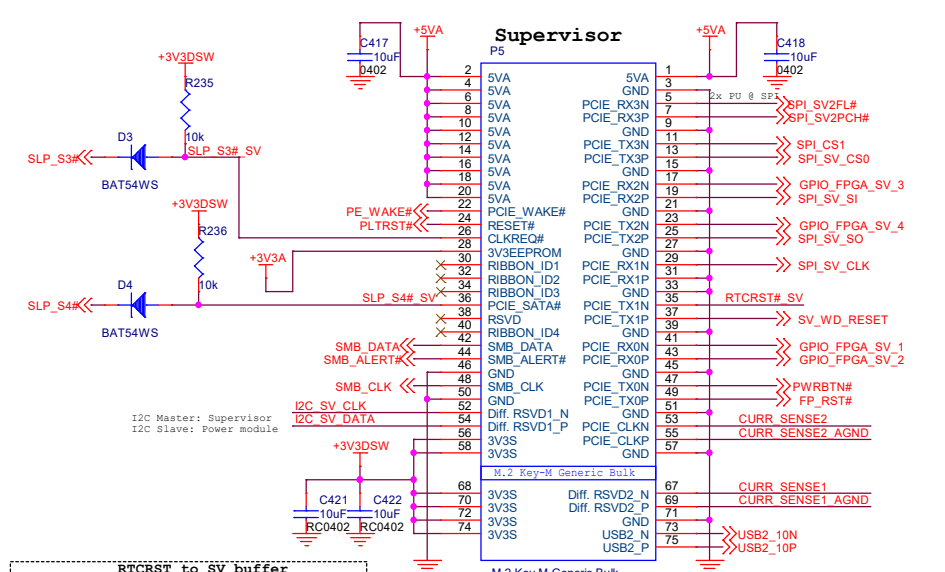
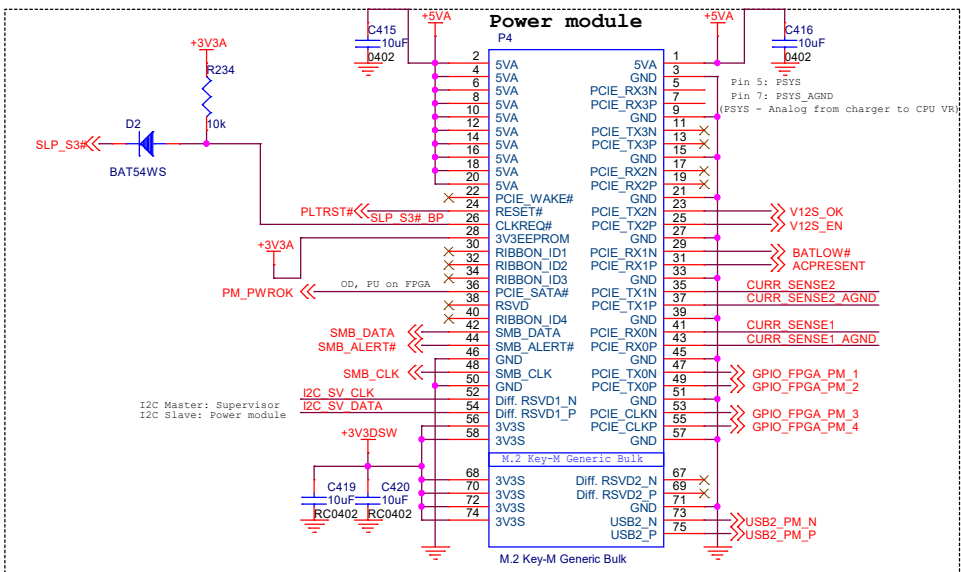
- Power Regulation:** A 5V regulator (U1) provides power to the board. A 3.3V regulator (U2) provides power to the USB-to-UART bridge (U3). A 1.8V regulator (U4) provides power to the USB-to-USB bridge (U5).
- Grounding:** The board is grounded to a common ground (GND) plane.
- Signal Connections:** The board features several signal pins, including:
 - USB-to-UART Bridge (U3):** Pins for VCC, GND, TX, RX, and CTS.
 - USB-to-USB Bridge (U5):** Pins for VCC, GND, TX, RX, and CTS.
 - Other Signals:** Pins for VCC, GND, TX, RX, and CTS.
- Component Values:** Various components are specified with their values, such as resistors (R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R193, R194, R195, R196, R197, R198, R199, R200, R201, R202, R203, R204, R205, R206, R207, R208, R209, R210, R211, R212, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R238, R239, R240, R241, R242, R243, R244, R245, R246, R247, R248, R249, R250, R251, R252, R253, R254, R255, R256, R257, R258, R259, R260, R261, R262, R263, R264, R265, R266, R267, R268, R269, R270, R271, R272, R273, R274, R275, R276, R277, R278, R279, R280, R281, R282, R283, R284, R285, R286, R287, R288, R289, R290, R291, R292, R293, R294, R295, R296, R297, R298, R299, R300, R301, R302, R303, R304, R305, R306, R307, R308, R309, R310, R311, R312, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336, R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360, R361, R362, R363, R364, R365, R366, R367, R368, R369, R370, R371, R372, R373, R374, R375, R376, R377, R378, R379, R380, R381, R382, R383, R384, R385, R386, R387, R388, R389, R390, R391, R392, R393, R394, R395, R396, R397, R398, R399, R400, R401, R402, R403, R404, R405, R406, R407, R408, R409, R410, R411, R412, R413, R414, R415, R416, R417, R418, R419, R420, R421, R422, R423, R424, R425, R426, R427, R428, R429, R430, R431, R432, R433, R434, R435, R436, R437, R438, R439, R440, R441, R442, R443, R444, R445, R446, R447, R448, R449, R450, R451, R452, R453, R454, R455, R456, R457, R458, R459, R460, R461, R462, R463, R464, R465, R466, R467, R468, R469, R470, R471, R472, R473, R474, R475, R476, R477, R478, R479, R480, R481, R482, R483, R484, R485, R486, R487, R488, R489, R490, R491, R492, R493, R494, R495, R496, R497, R498, R499, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512, R513, R514, R515, R516, R517, R518, R519, R520, R521, R522, R523, R524, R525, R526, R527, R528, R529, R530, R531, R532, R533, R534, R535, R536, R537, R538, R539, R540, R541, R542, R543, R544, R545, R546, R547, R548, R549, R550, R551, R552, R553, R554, R555, R556, R557, R558, R559, R560, R561, R562, R563, R564, R565, R566, R567, R568, R569, R570, R571, R572, R573, R574, R575, R576, R577, R578, R579, R580, R581, R582, R583, R584, R585, R586, R587, R588, R589, R590, R591, R592, R593, R594, R595, R596, R597, R598, R599, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R610, R611, R612, R613, R614, R615, R616, R617, R618, R619, R620, R621, R622, R623, R624, R625, R626, R627, R628, R629, R630, R631, R632, R633, R634, R635, R636, R637, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R648, R649, R650, R651, R652, R653, R654, R655, R656, R657, R658, R659, R660, R661, R662, R663, R664, R665, R666, R667, R668, R669, R670, R671, R672, R673, R674, R675, R676, R677, R678, R679, R680, R681, R682, R683, R684, R685, R686, R687, R688, R689, R690, R691, R692, R693, R694, R695, R696, R697, R698, R699, R700, R701, R702, R703, R704, R705, R706, R707, R708, R709, R710, R711, R712, R713, R714, R715, R716, R717, R718, R719, R720, R721, R722, R723, R724, R725, R726, R727, R728, R729, R730, R731, R732, R733, R734, R735, R736, R737, R738, R739, R740, R741, R742, R743, R744, R745, R746, R747, R748, R749, R750, R751, R752, R753, R754, R755, R756, R757, R758, R759, R760, R761,



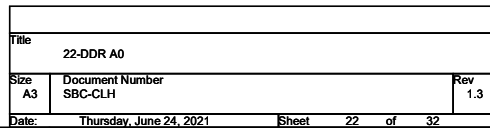
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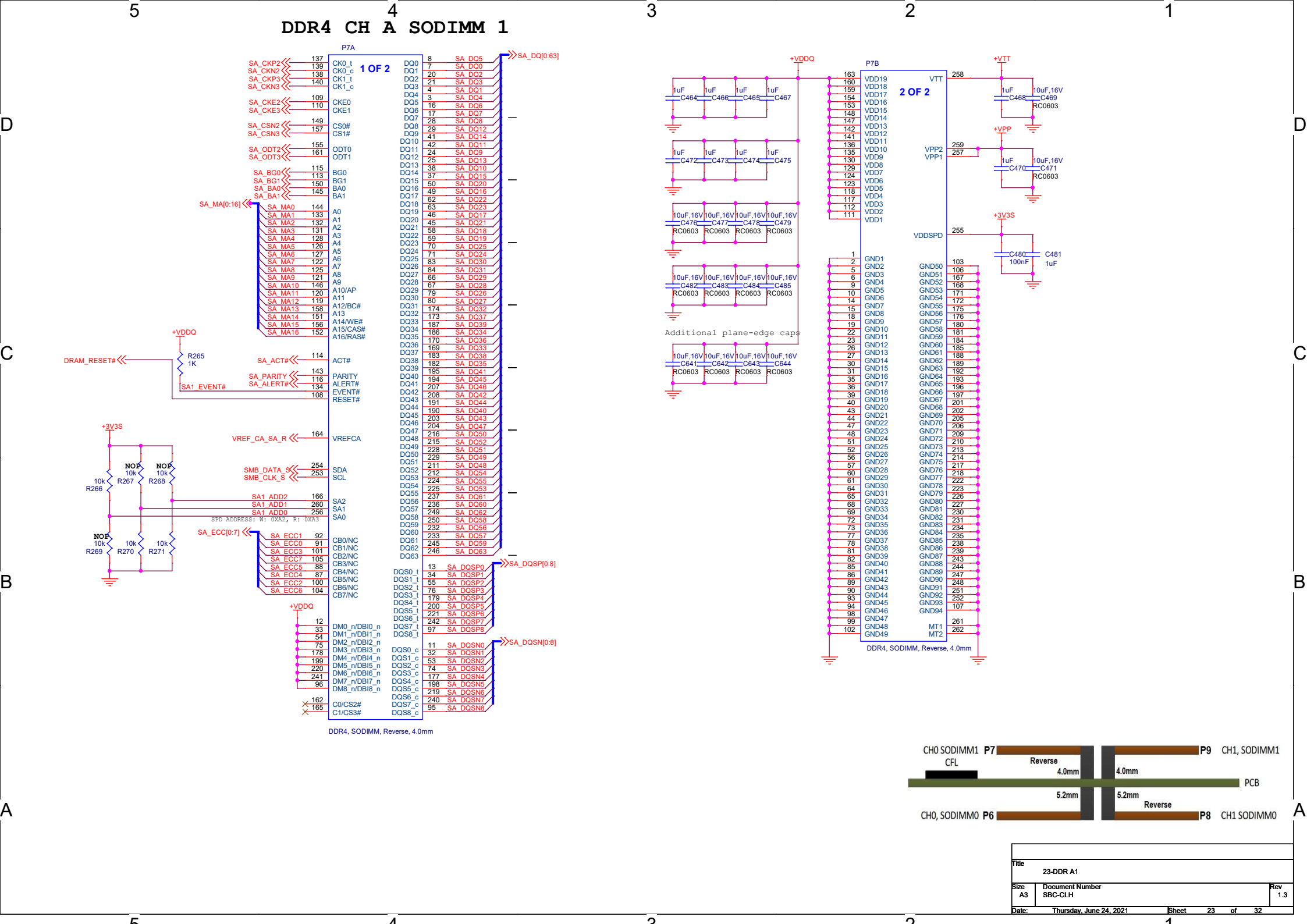


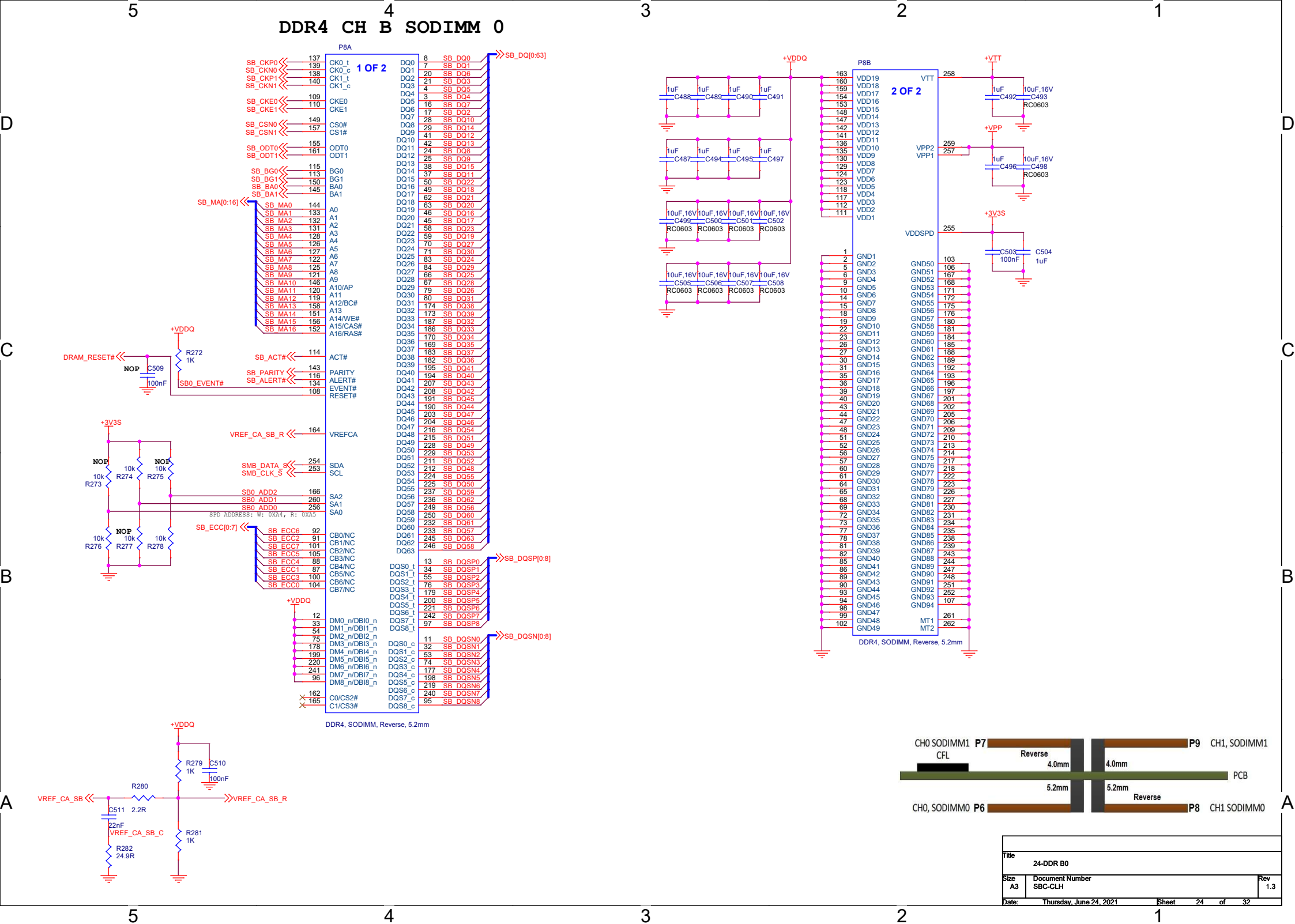
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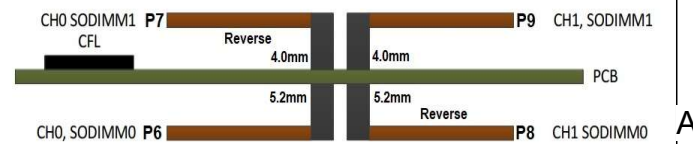
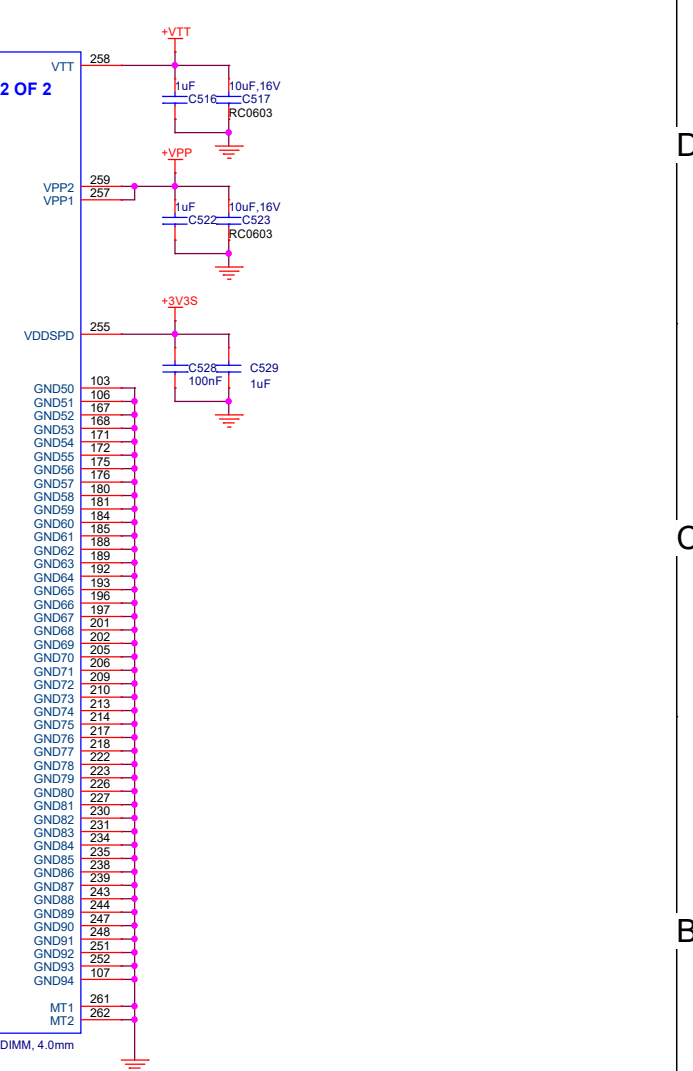
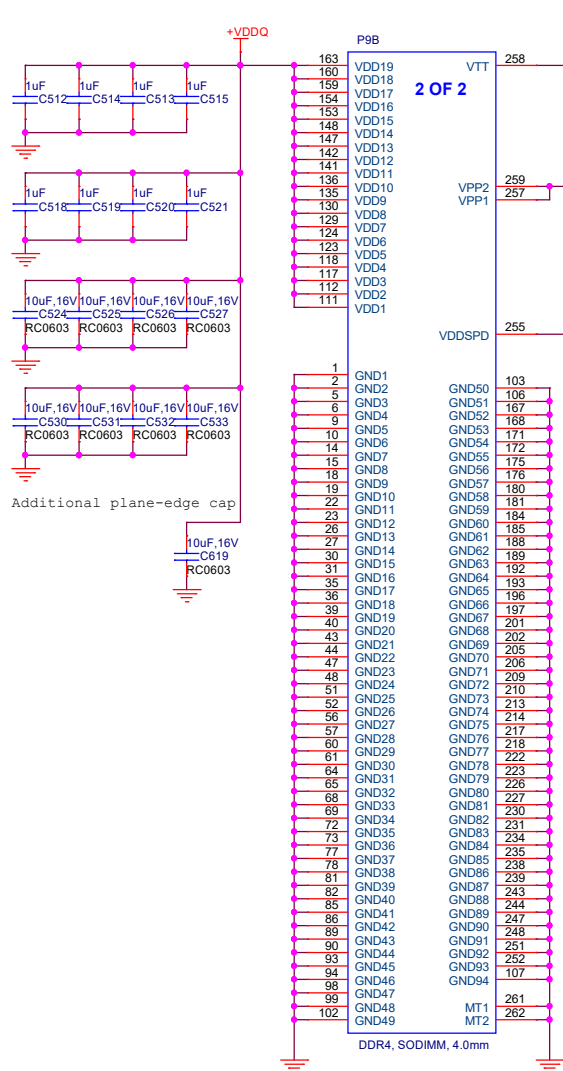
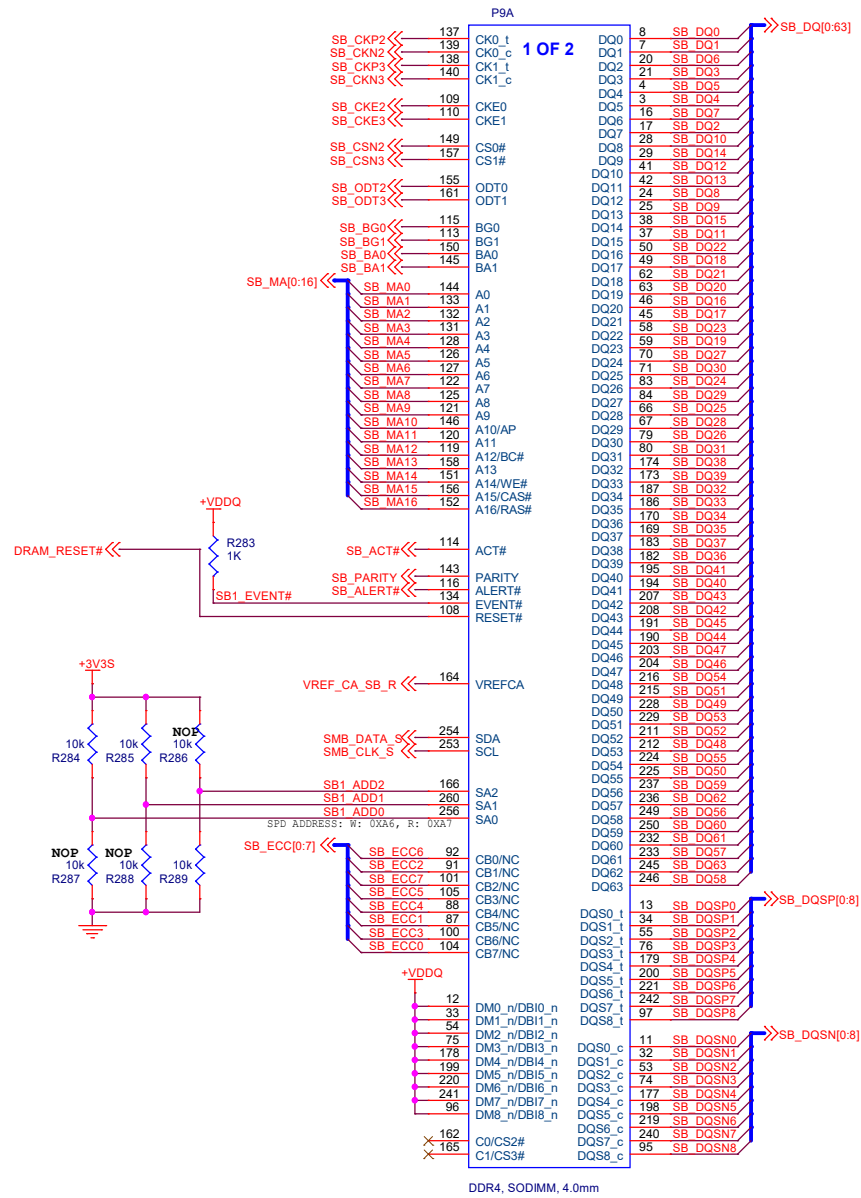
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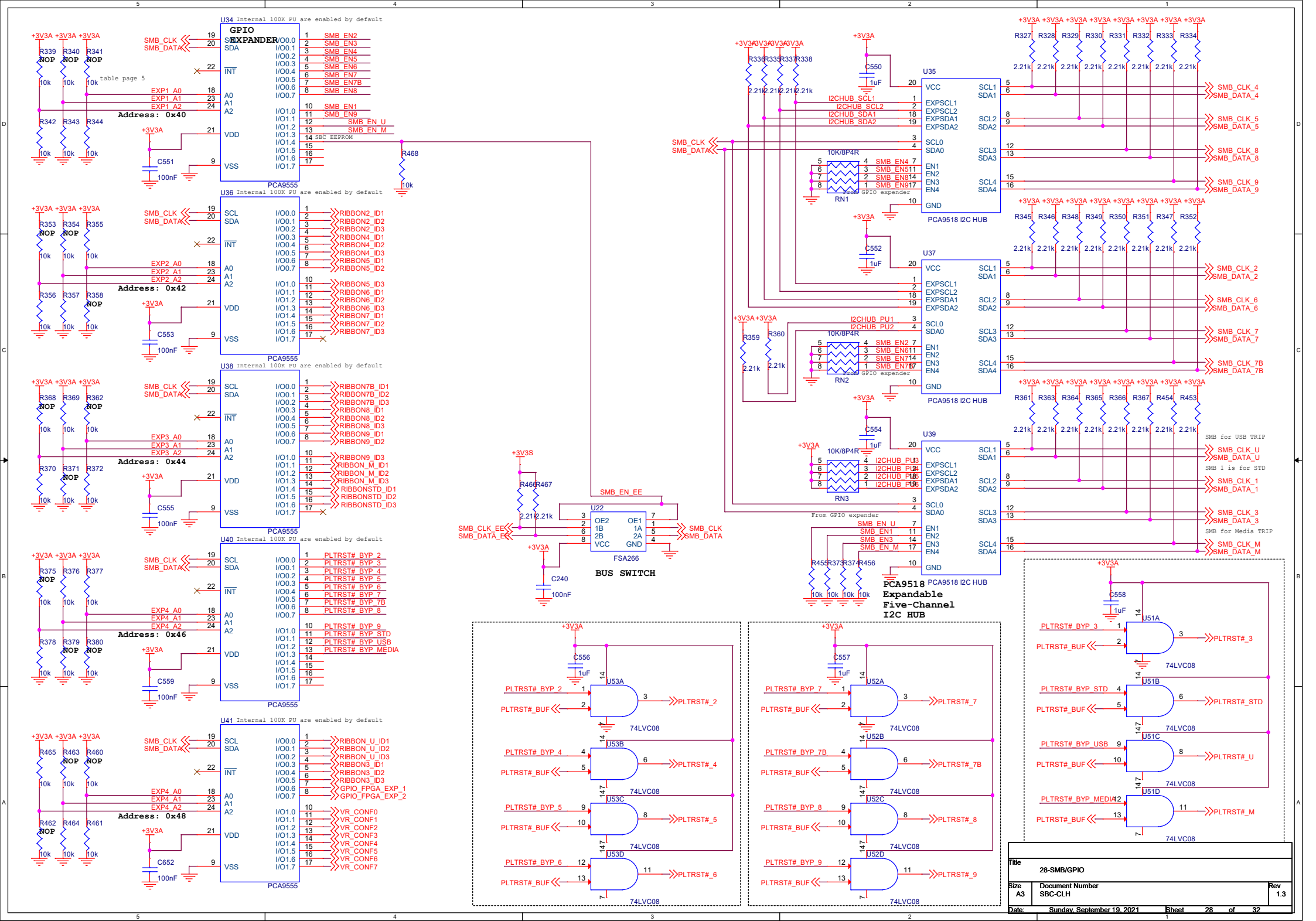




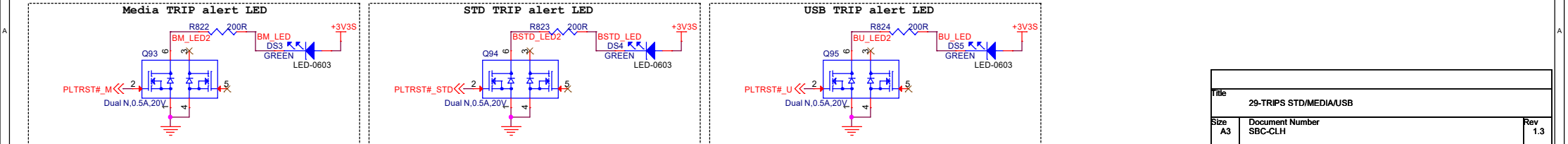
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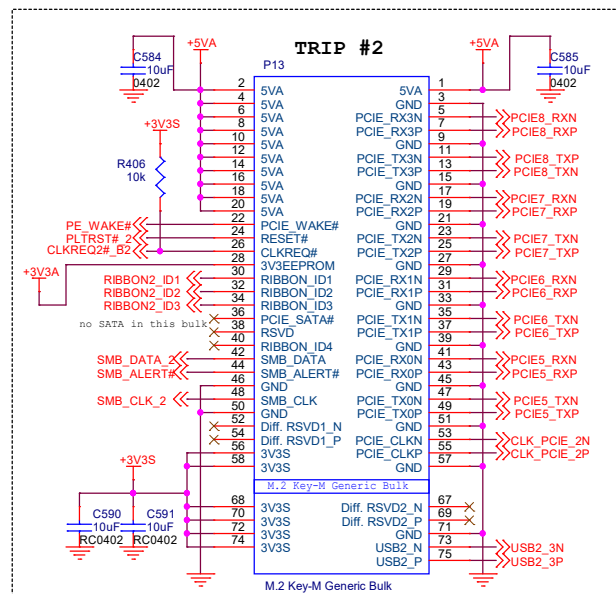
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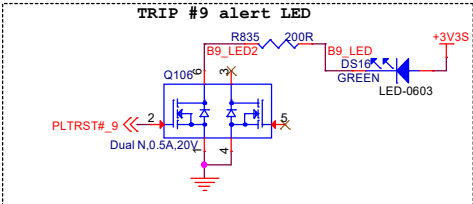
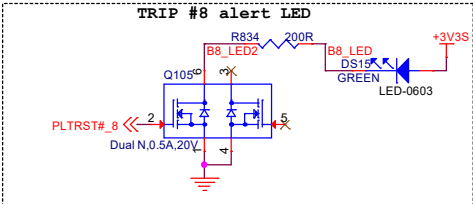
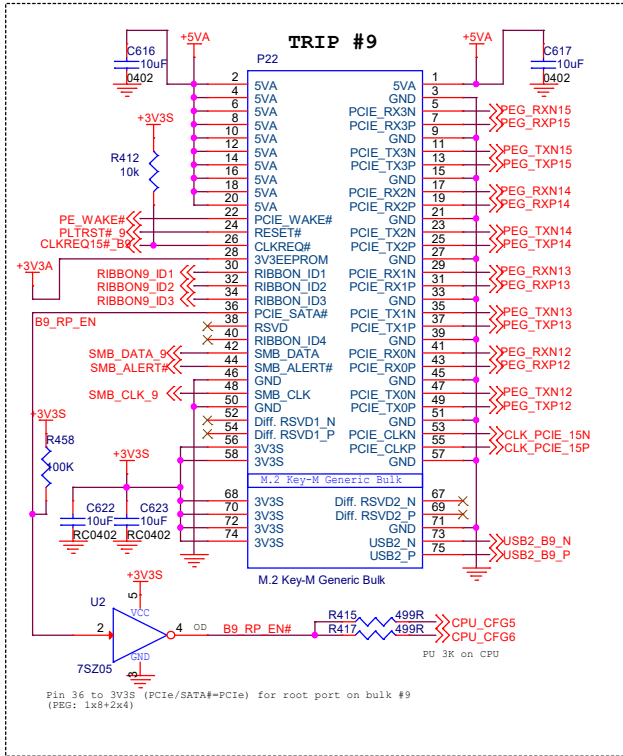
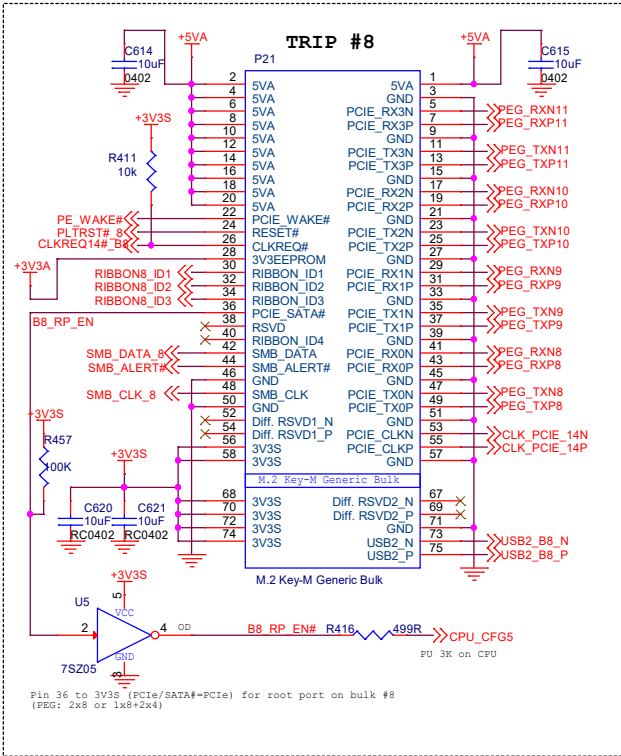
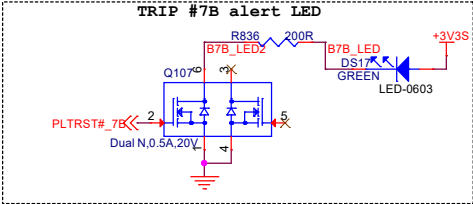
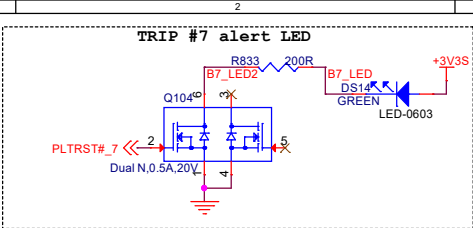
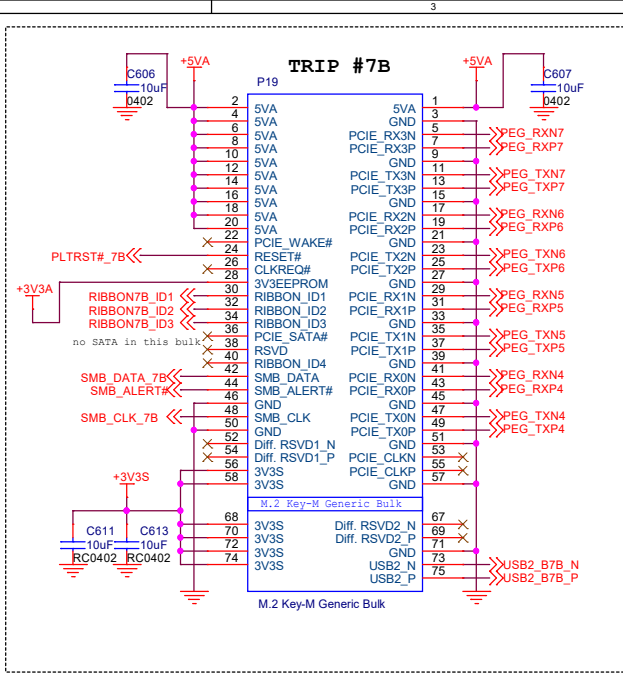
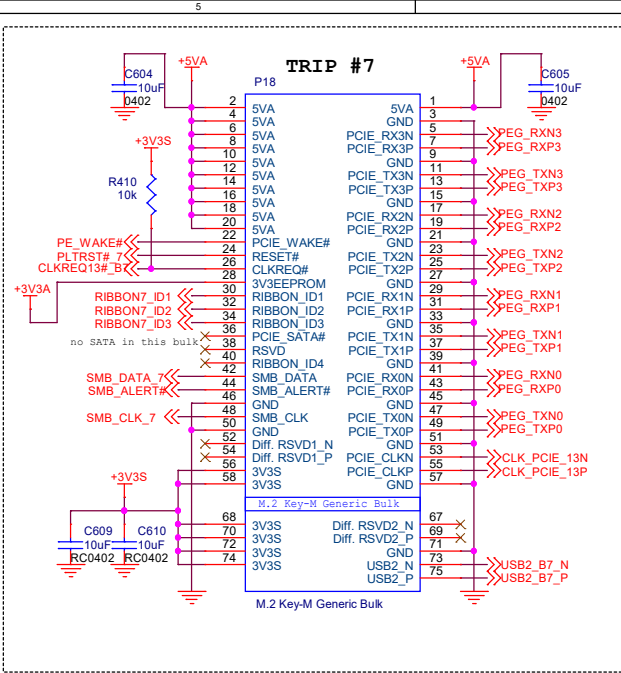


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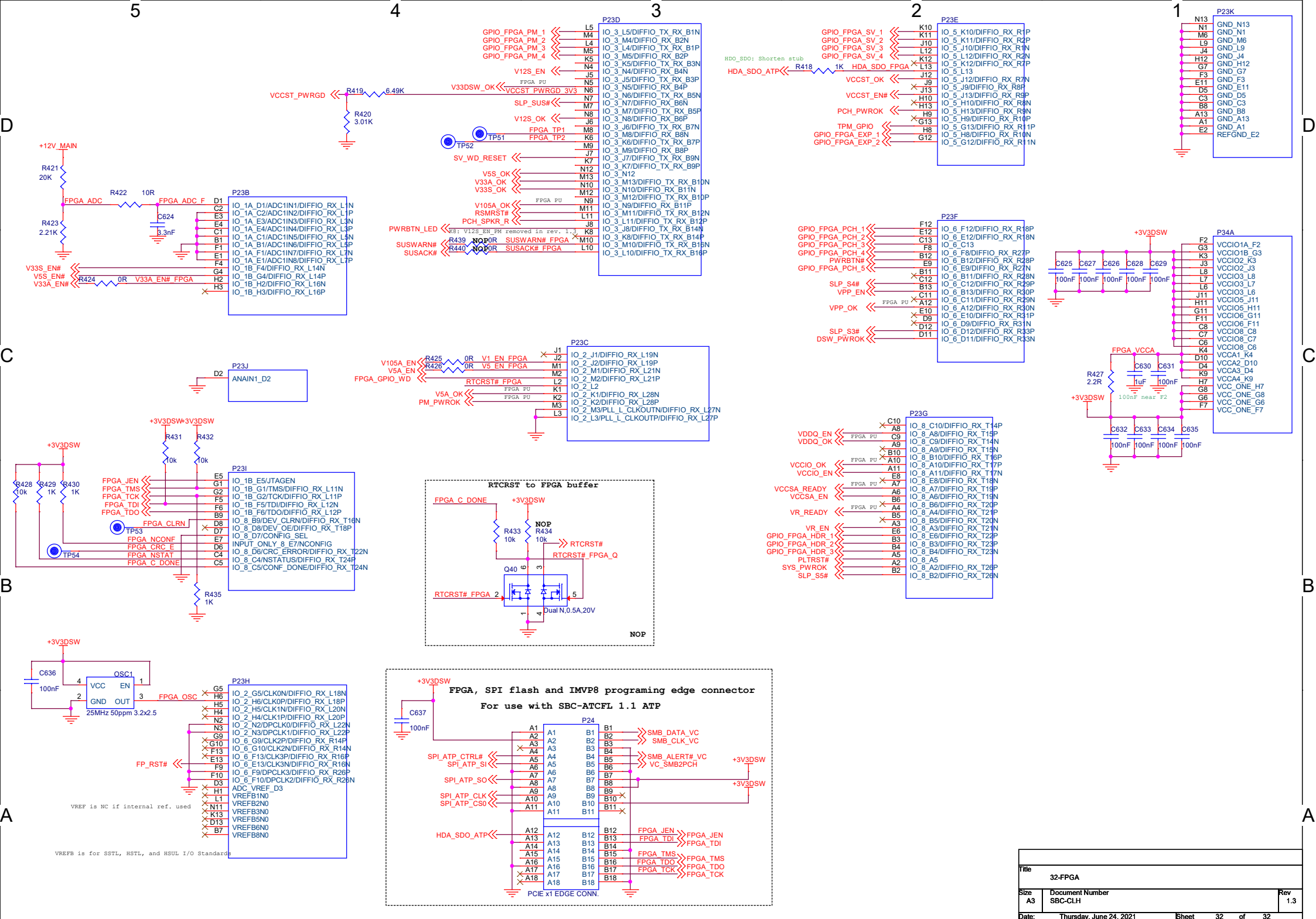


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32-FPGA			
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