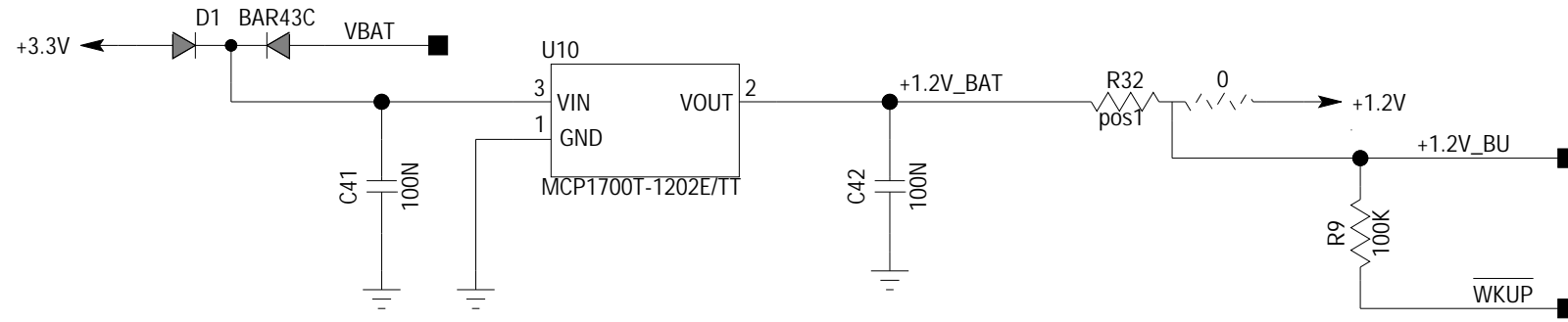


CPU Module PM9263 v1.3

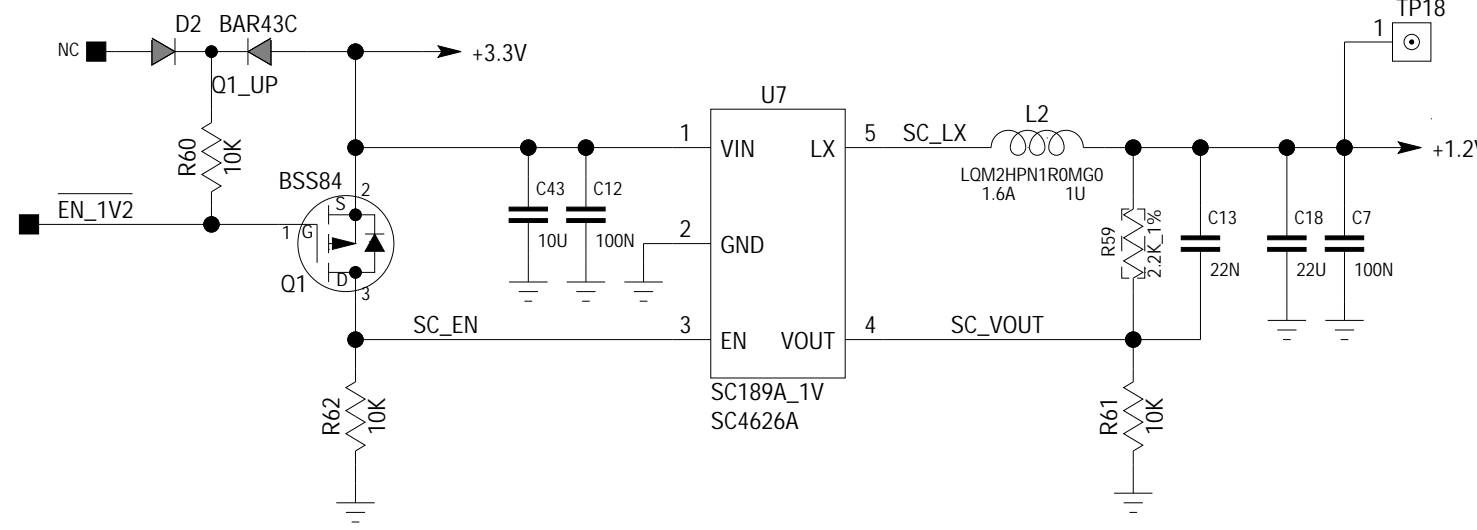
PM9263 v1.3 release notes:

- 1.2V BU regulator changed from TPS77012 to MCP1700
- removed alternative 1.2V regulator (TPS72010D)
- changed 1.2V regulator to SC189A
- added RC termination to A14
- added serial OR and pull-up 100k to CS of DataFlash
- added possibility to use PSRAM with 3.3V core voltage
- PSRAM changed to FMP3216CA5-H60E
- added possibility for SPI Flash AT25DF in S08
- DataFlash and SPI Flash not populated by default
- added possibility to route PD13 to pin 200 of SODIMM



PM9263 v1.2 release notes:

- added serial 22R to SDWE, RAS, CAS, SDA10
- added pull-up/pull-down terminating for SDCK
- added R53, serial to XOUT
- add R55 - a possibility to use 50MHz for XIN
- add R56 - if not populated, then the 50MHz is permanent enabled
- populated R50 (version coding)
- changed U7 (NOR Flash): BGA64 -> BGA48

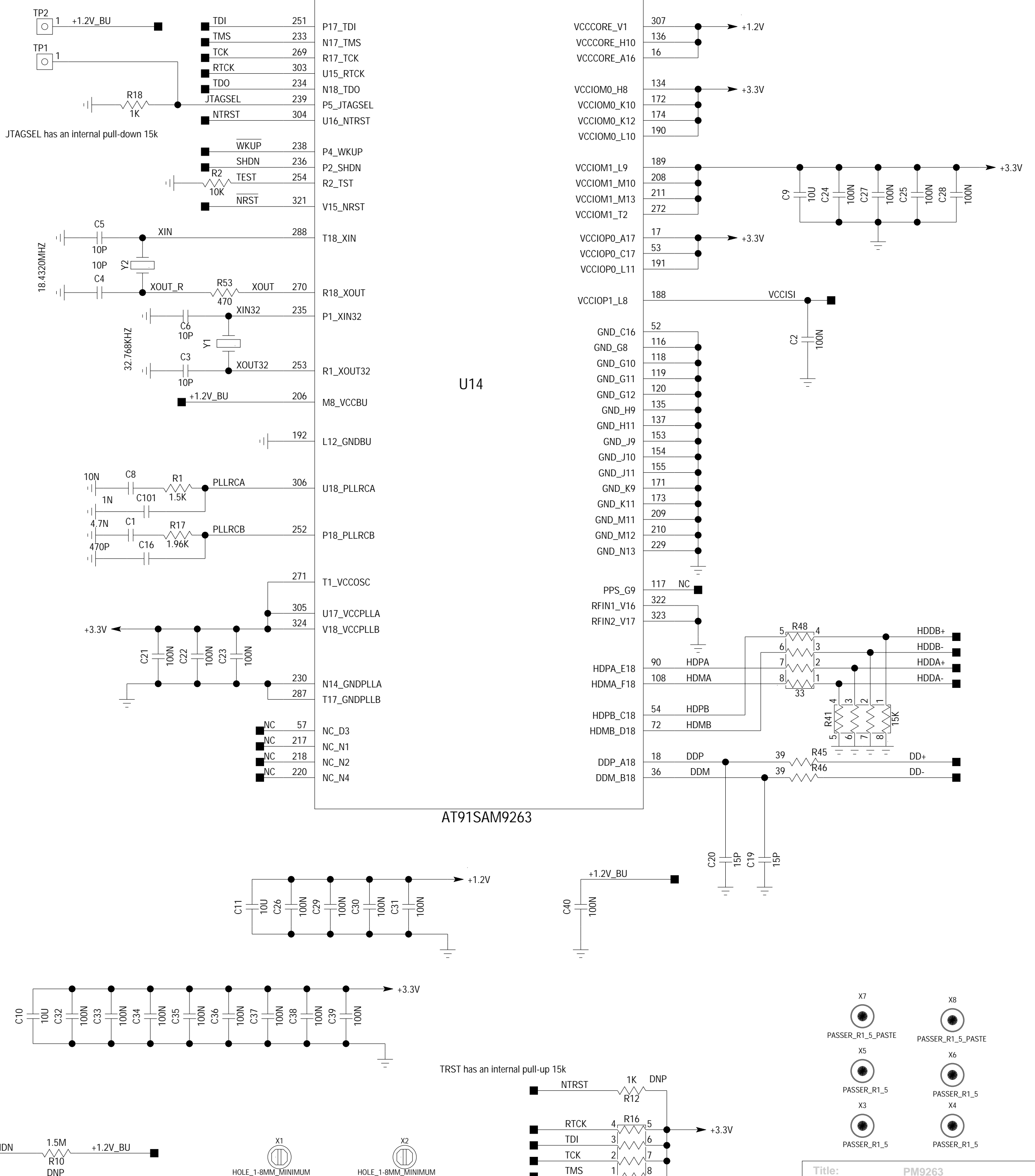


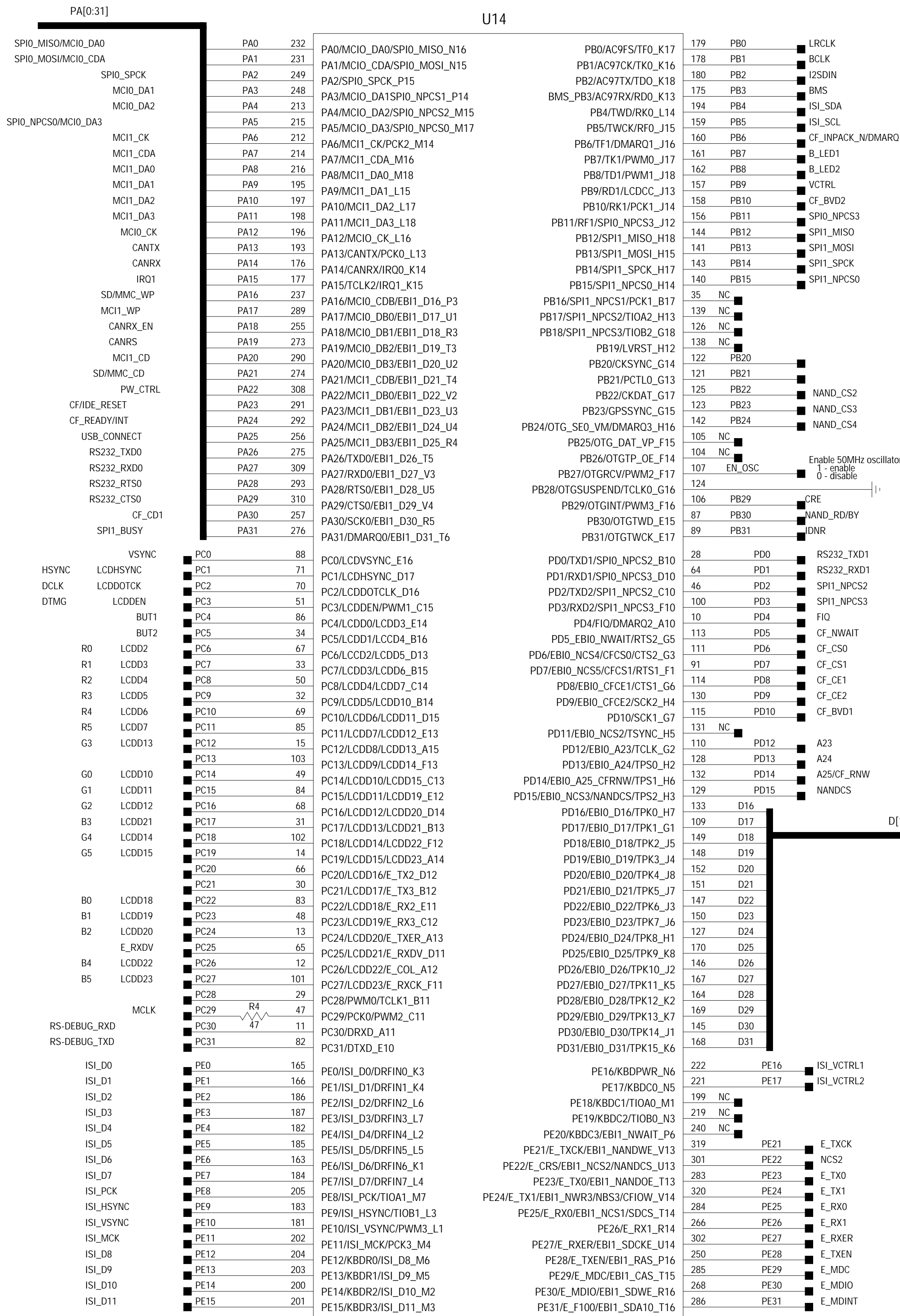
PM9263 v1.1 release notes:

- the module fits only in 2.5V SODIMM200 connectors
- PB20, PB21 can be used for version coding
- PB23, PB24, PB25 - used in 2/4 dies NAND Flash chips
- PB27 - enable/disable the 50MHz oscillator (ETH)
- removed 16-bit NAND Flash footprint
- added possibility to populate 512Mbit NOR Flash
- SODIMM200, pin 200 is not connected
- added several test points

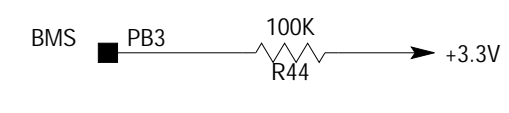
JTAG Boundary scan tester should short TP1 and TP2

Place TP1 and TP2 close to another

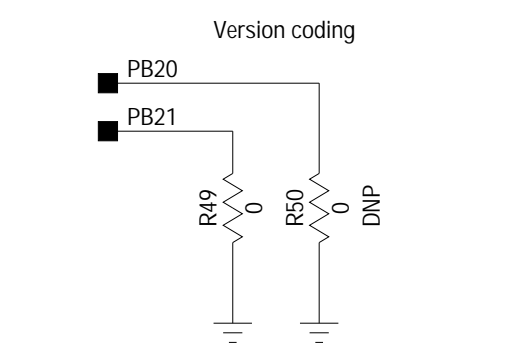




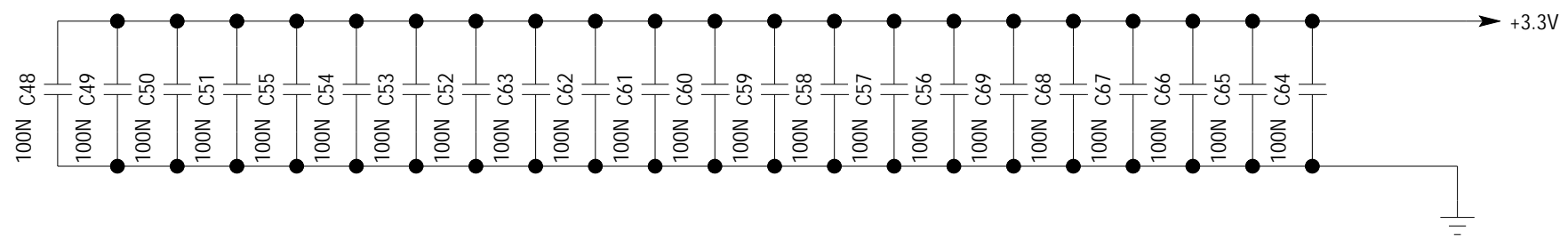
The Base Board should have a 1.0k pull-down to boot from NOR Flash



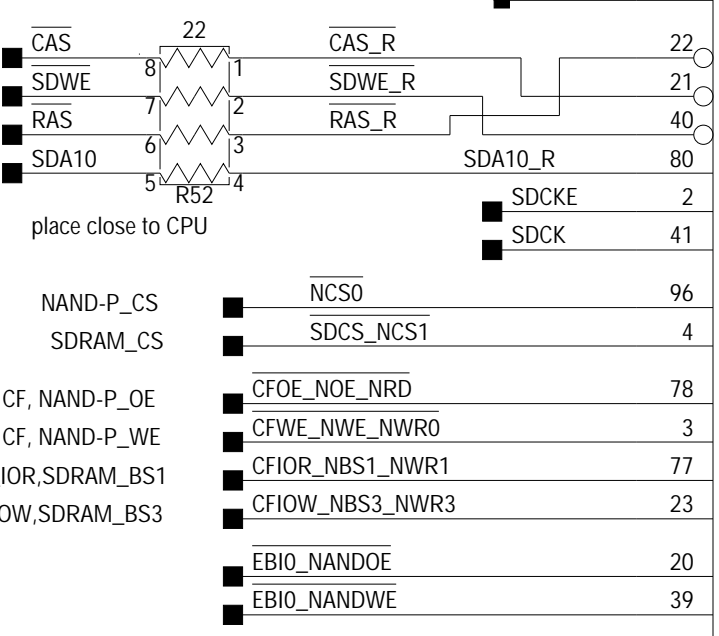
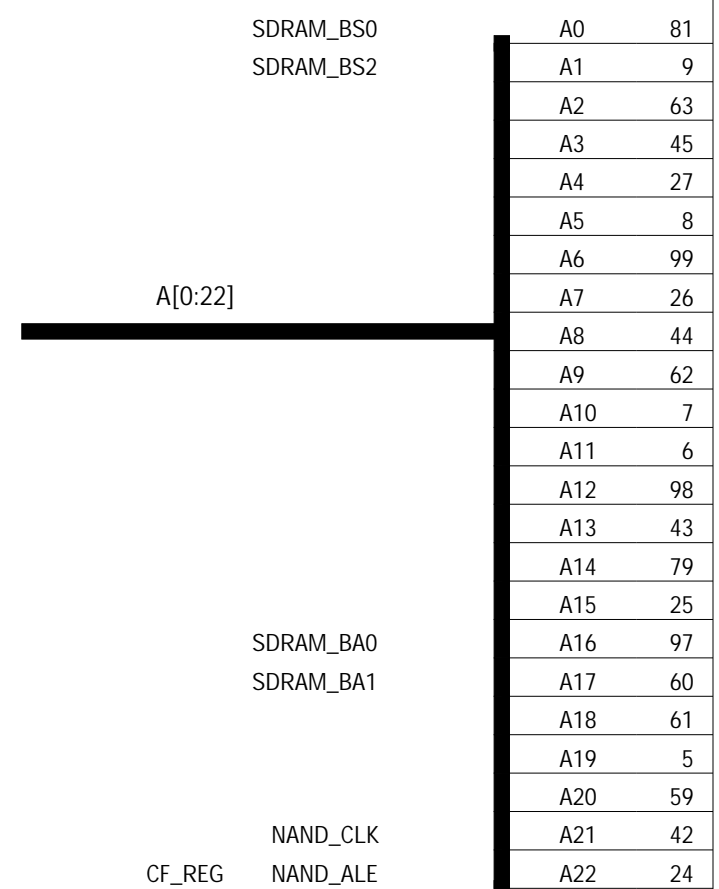
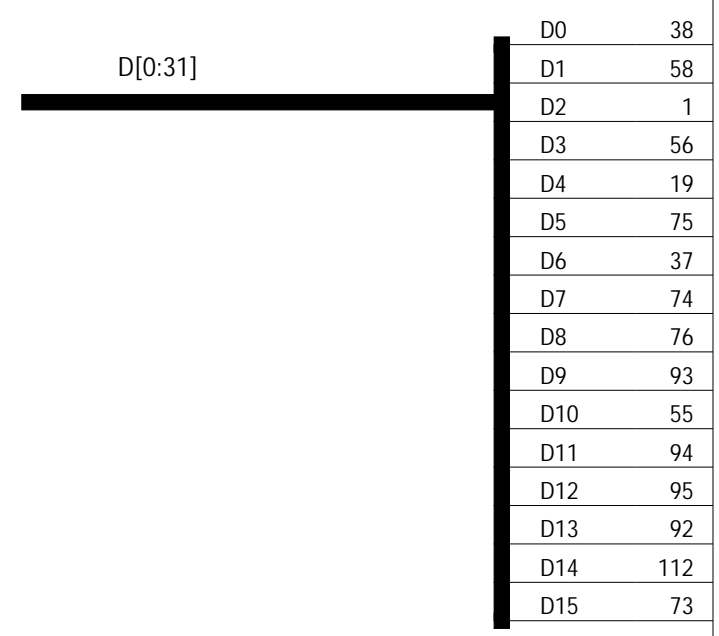
Boot Mode:
 BMS = 0 - boot from NOR Flash
 BMS = 1 - start internal boot loader



Version	R49	R50
v1.1	no	no
v1.2	no	yes
v1.3	yes	no



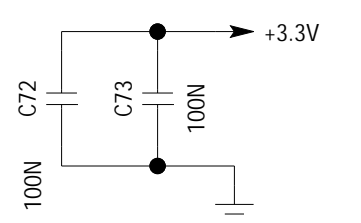
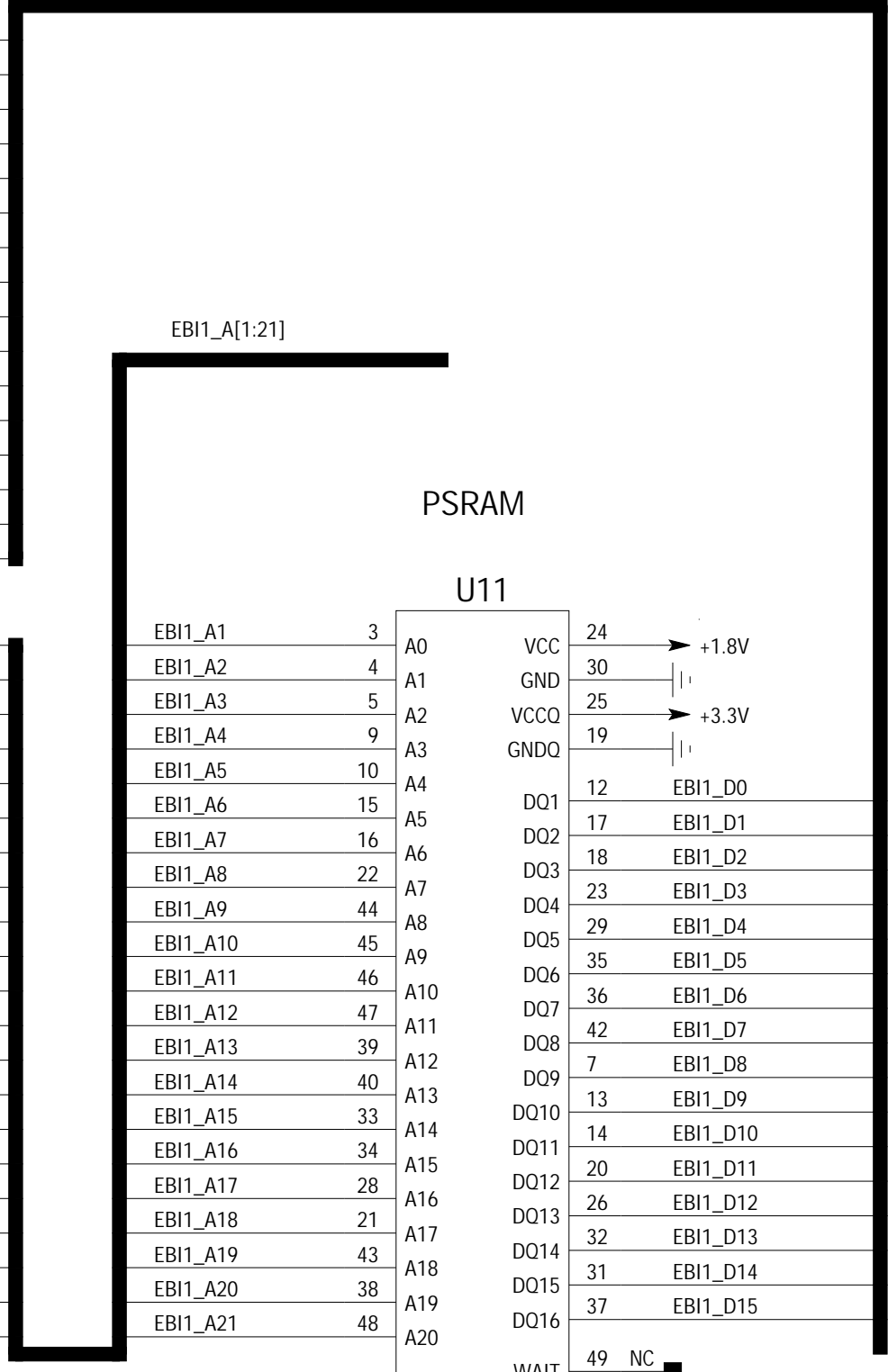
U14



EBIO_D0_C2	280	EBI1_D0_T10
EBIO_D1_D4	262	EBI1_D1_R10
EBIO_D2_A1	226	EBI1_D2_N10
EBIO_D3_D2	299	EBI1_D3
EBIO_D4_B1	246	EBI1_D4
EBIO_D5_E3	317	EBI1_D5
EBIO_D6_C1	227	EBI1_D6
EBIO_D7_E2	281	EBI1_D7
EBIO_D8_E4	263	EBI1_D8
EBIO_D9_F3	228	EBI1_D9
EBIO_D10_D1	247	EBI1_D10
EBIO_D11_F4	318	EBI1_D11
EBIO_D12_F5	264	EBI1_D12
EBIO_D13_F2	300	EBI1_D13
EBIO_D14_G4	282	EBI1_D14
EBIO_D15_E1	265	EBI1_D15
EBIO_NBS0/A0_E9	294	EBI1_NBS0
EBIO_NBS2/NWR2/A1_A9	311	EBI1_A1
EBIO_A2_D9	258	EBI1_A2
EBIO_A3_C9	312	EBI1_A3
EBIO_A4_B9	242	EBI1_A4
EBIO_A5_A8	295	EBI1_A5
EBIO_A6_F9	223	EBI1_A6
EBIO_A7_B8	277	EBI1_A7
EBIO_A8_C8	241	EBI1_A8
EBIO_A9_D8	313	EBI1_A9
EBIO_A10_A7	296	EBI1_A10
EBIO_A11_A6	224	EBI1_A11
EBIO_A12_F8	278	EBI1_A12
EBIO_A13_C7	260	EBI1_A13
EBIO_A14_E7	259	EBI1_A14
EBIO_A15_B7	314	EBI1_A15
EBIO_BA0/A16_F7	297	EBI1_A16
EBIO_BA1/A17_D6	261	EBI1_A17
EBIO_A18_D7	279	EBI1_A18
EBIO_A19_A5	243	EBI1_A19
EBIO_A20_D5	315	EBI1_A20
EBIO_A21_C6	207	EBI1_A21
EBIO_A22_B6	225	NC
EBIO_RAS_B4	22	EBI1_RAS_B4
EBIO_CAS_B3	21	EBI1_CAS_B3
EBIO_SDWE_C4	40	EBI1_SDWE_C4
EBIO_SDA10_E8	80	EBI1_SDA10_E8
EBIO_SDCKE_A2	2	EBI1_SDCKE_A2
EBIO_SDCK_C5	41	EBI1_SDCK_C5
EBIO_NCS0_F6	96	EBI1_NCS0_F6
EBIO_SDCS/NCS1_A4	4	EBI1_SDCS/NCS1_A4
EBIO_NRD/CFOE_E6	78	EBI1_NRD/CFOE_U10
EBIO_NWE/NWR0/CFWE_A3	3	EBI1_NWE/NWR0/CFWE_P11
EBIO_NBS1/NWR1/CFIOR_E5	77	EBI1_NBS1/NWR1/CFIOR_V10
EBIO_NBS3/NWR3/CFIOW_B5	23	
EBIO_NANDOE_B2	20	
EBIO_NANDWE_C3	39	

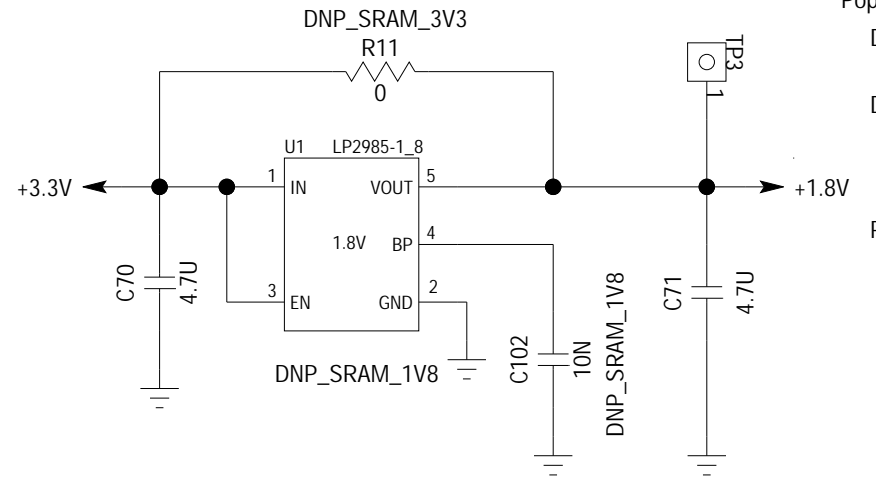
AT91SAM9263

EBI1_D[0:15]

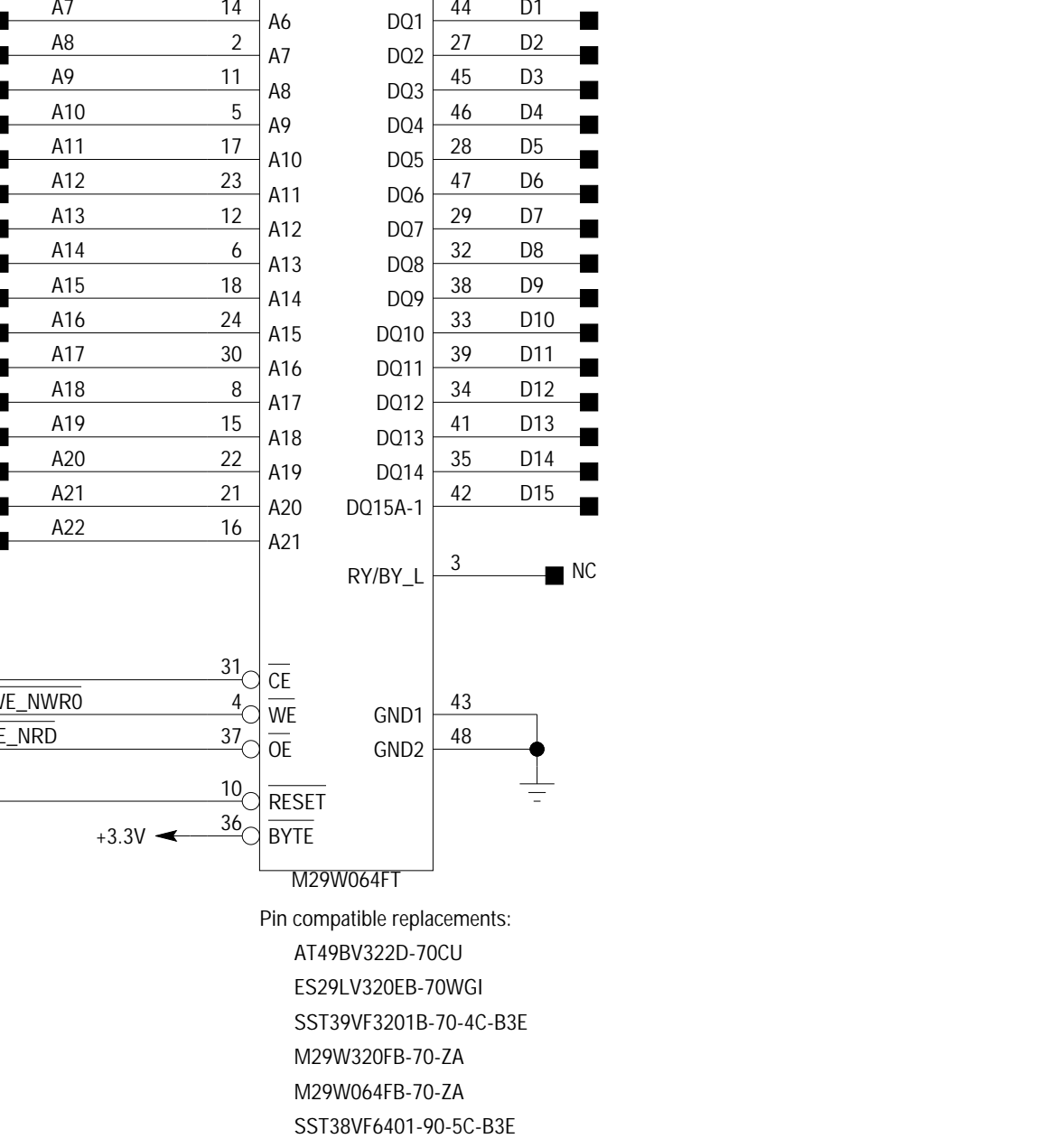
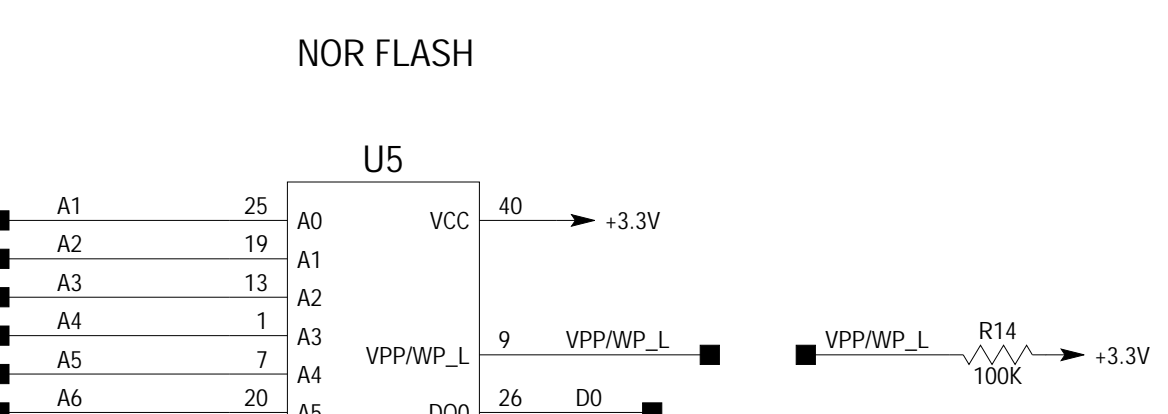
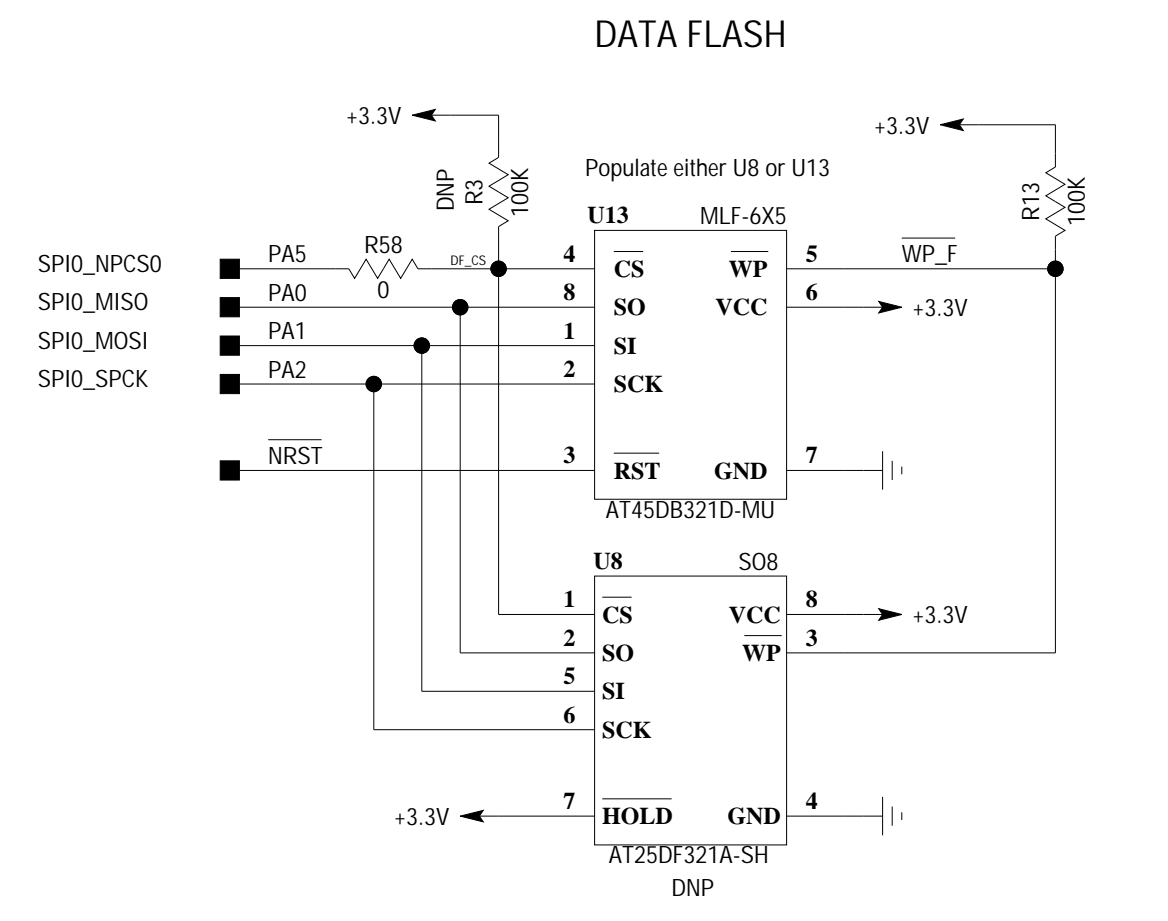
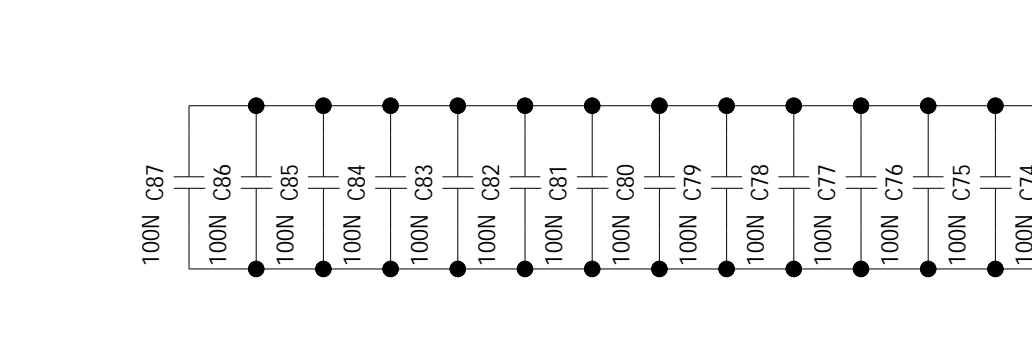
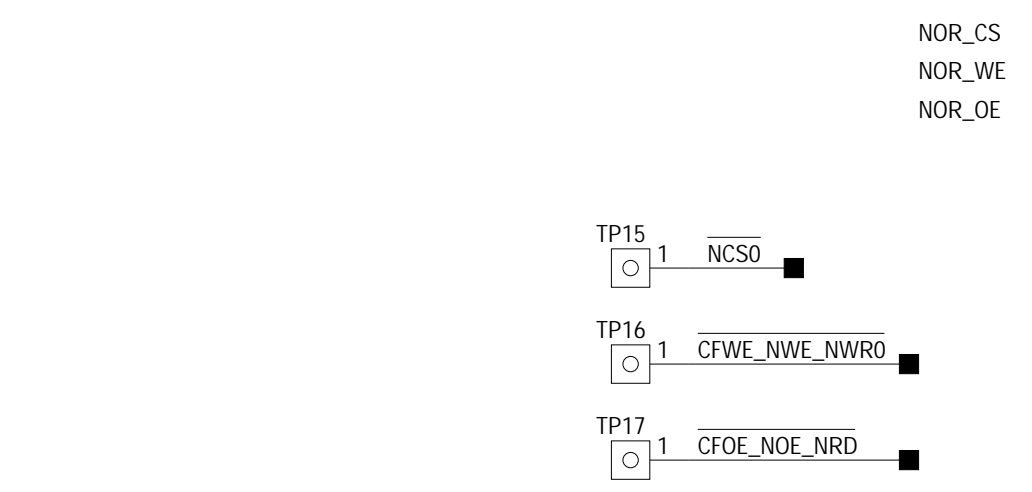
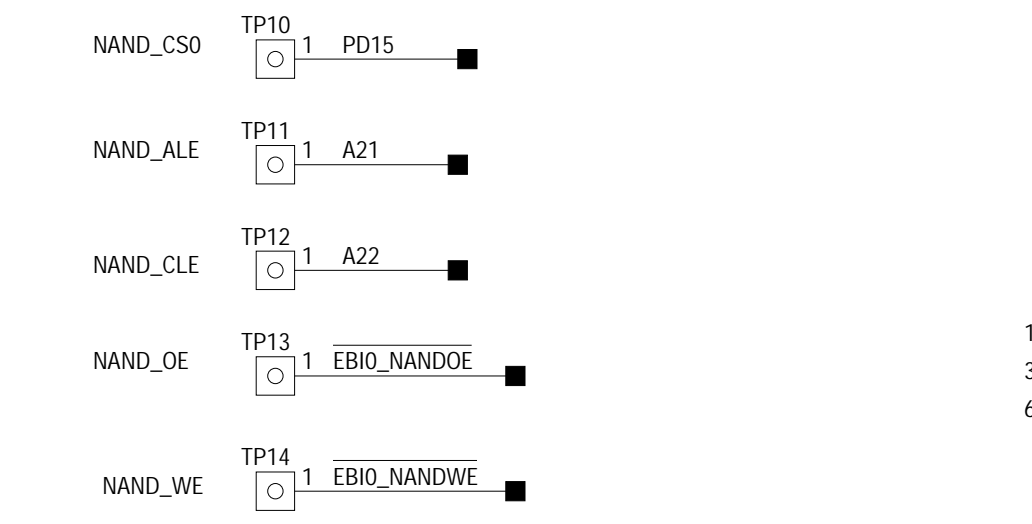
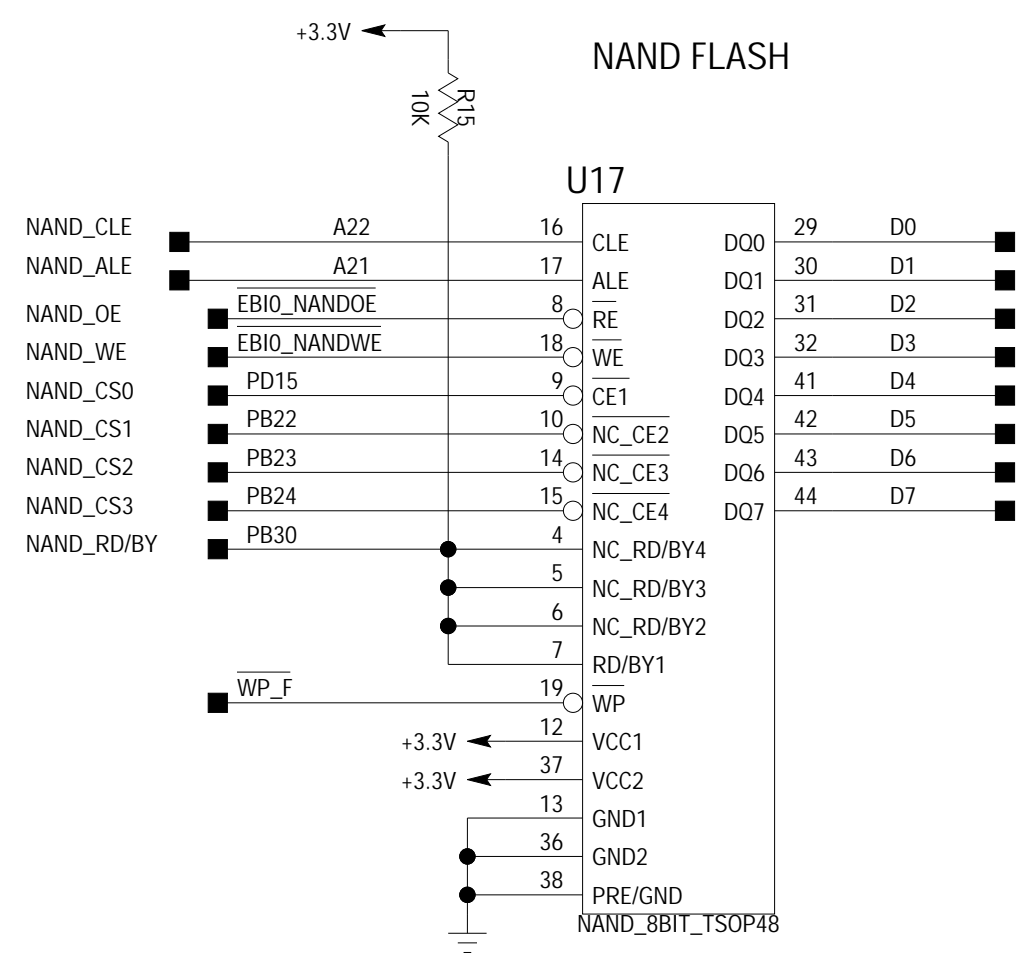
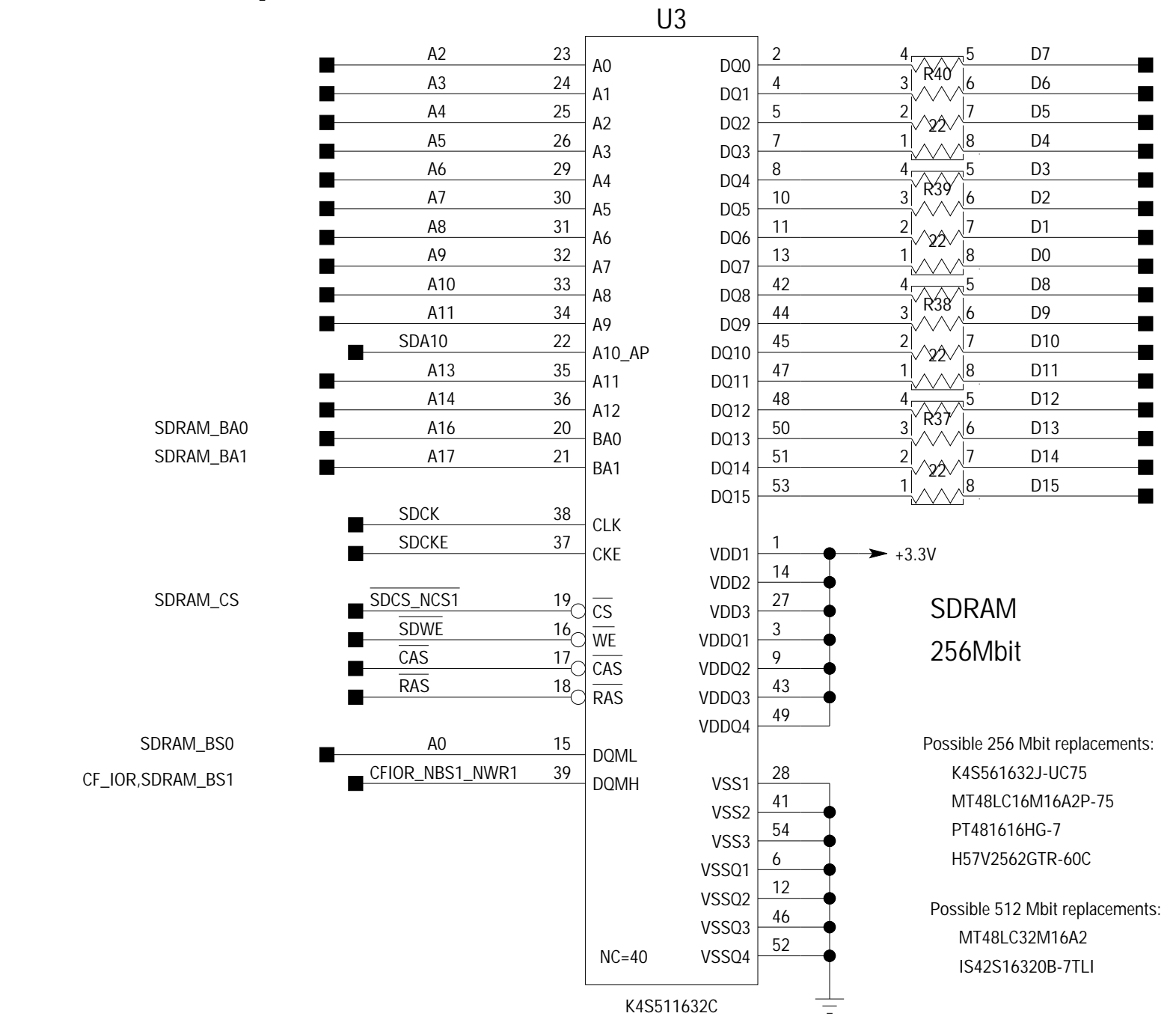
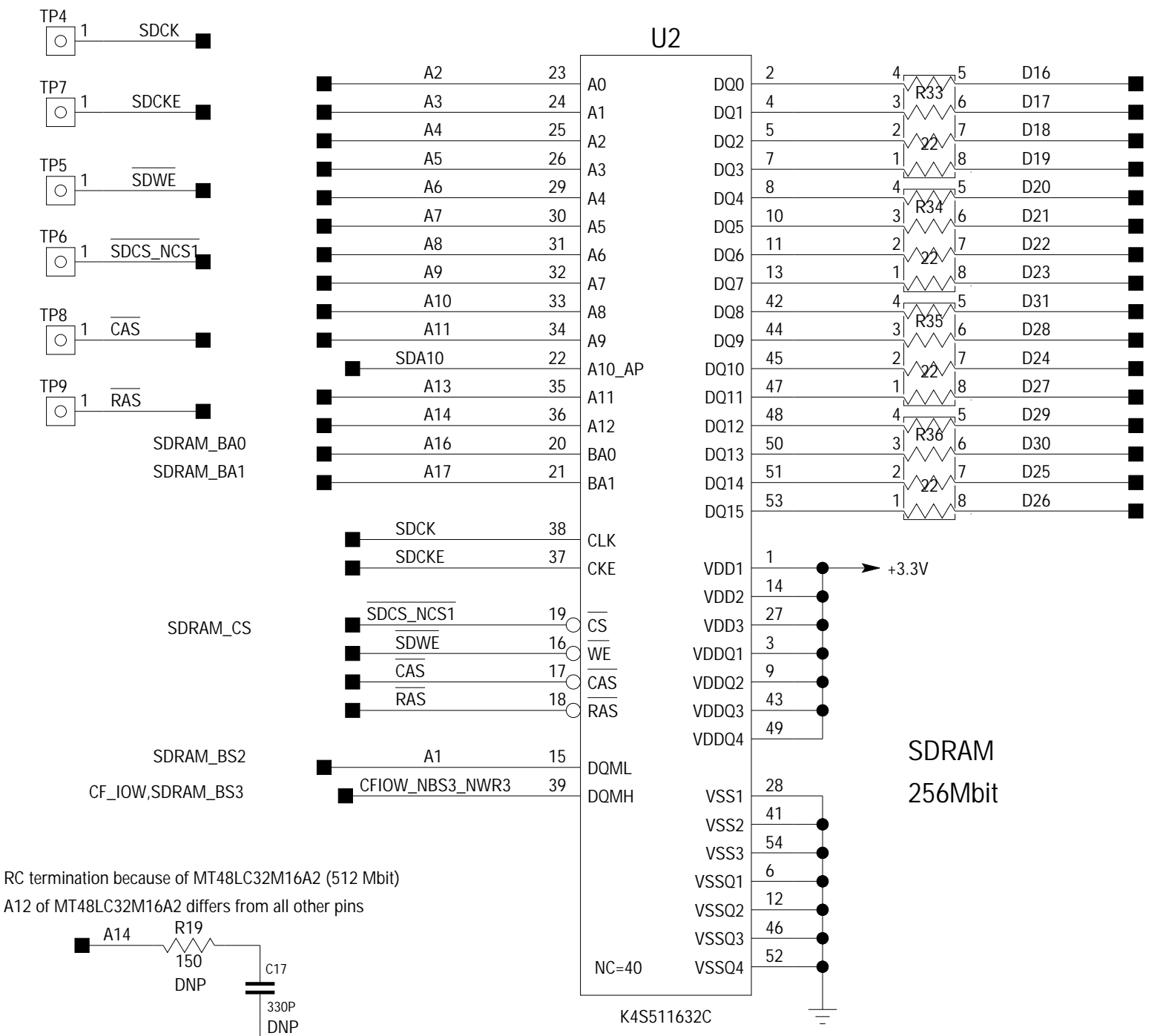


MT45W2M16B (marking code PW420) - CRE must be 0
 MT45W2M16A (marking code PW751) - CRE must be 1
 FMP3216CA5-H60E - CRE must be 1

Populate parts with label:
 DNP_SRAM_3V3 - if SRAM needs 3.3V core power supply (FMP3216CA5-H60E)
 DNP_SRAM_1V8 - if SRAM needs 1.8V core power supply (MT45W2MW16A or MT45W2MW16B)

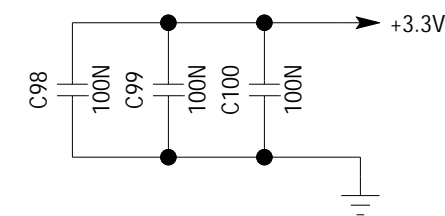
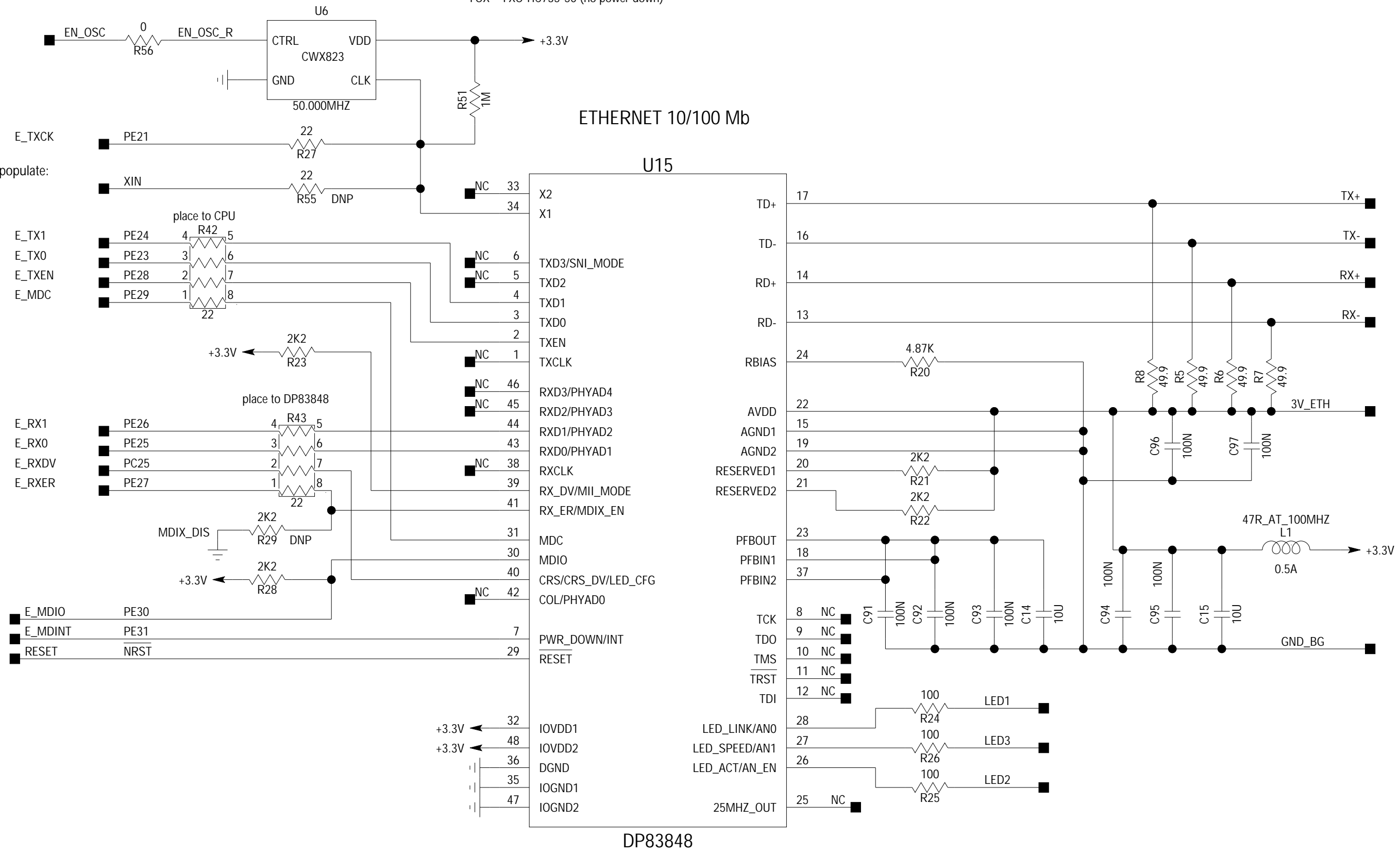


Populate either R11 or U1

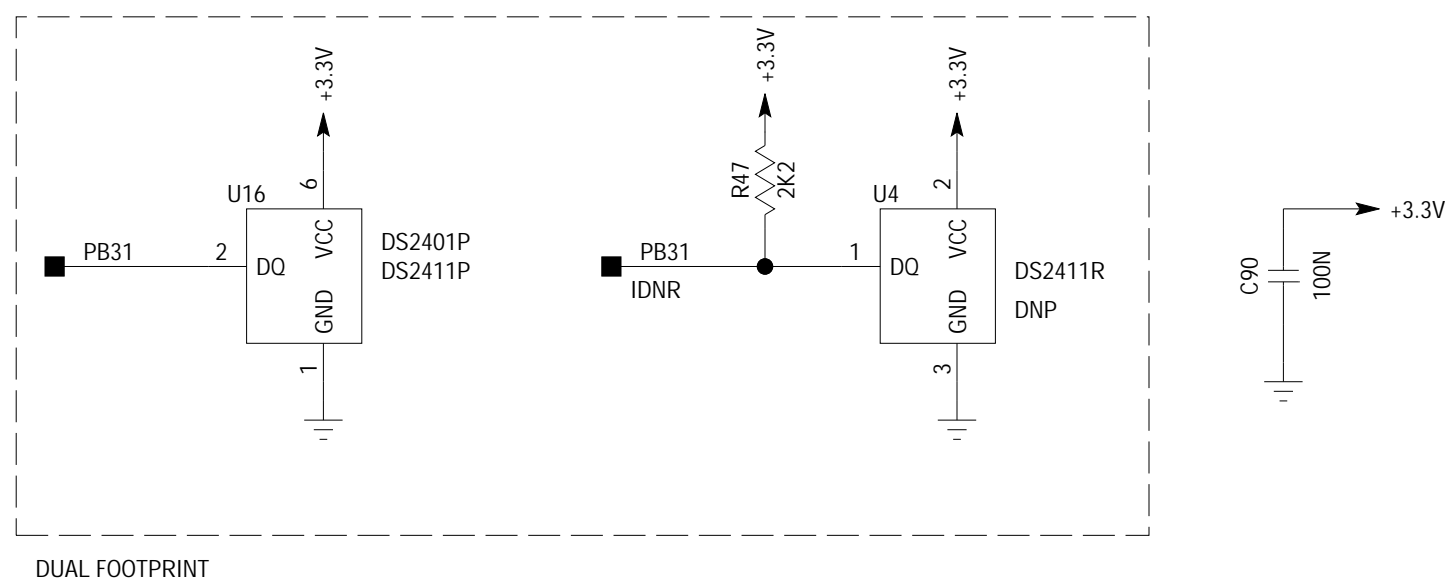


CONNOR-WINFIELD - CWX823-50.0M
 AVX/KYOCERA - K50-3C0SE50.0000MR
 ABRACON - ASV-50.000MHZ-EJ-T
 FOX - FXO-HC735-50 (no power down)

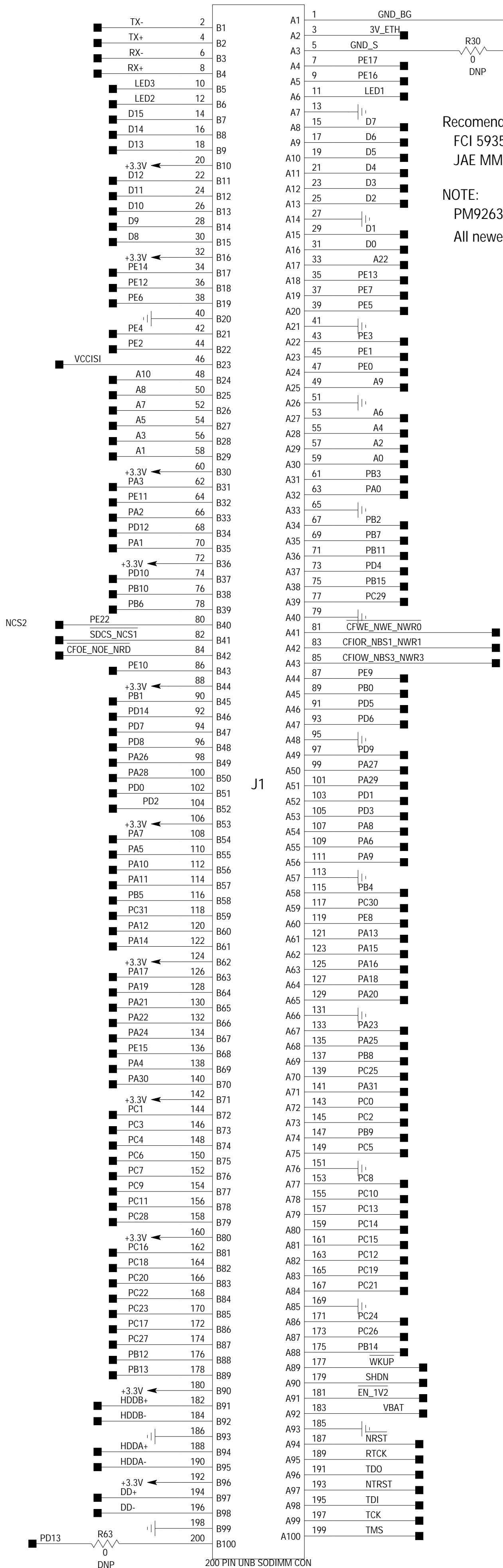
if R55 is populated, then don't populate:
 Y2, C4, C4, R53, R56



SERIAL NUMBER CHIP

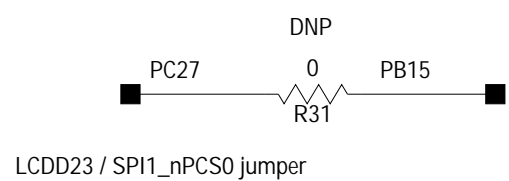


2.5V DDR1 SODIMM200 CONNECTOR



Recommended SODIMM200 2.5V connectors:
 FCI 59354-052FSLF
 JAE MM50-200B1-1E

NOTE:
 PM9263 v1.0 fits in 1.8V and 2.5V SODIMM200 connectors
 All newer versions fit only in 2.5V SODIMM200 connectors



J1

200 PIN UNB SODIMM CON