



Radxa NIO 12L

schematic

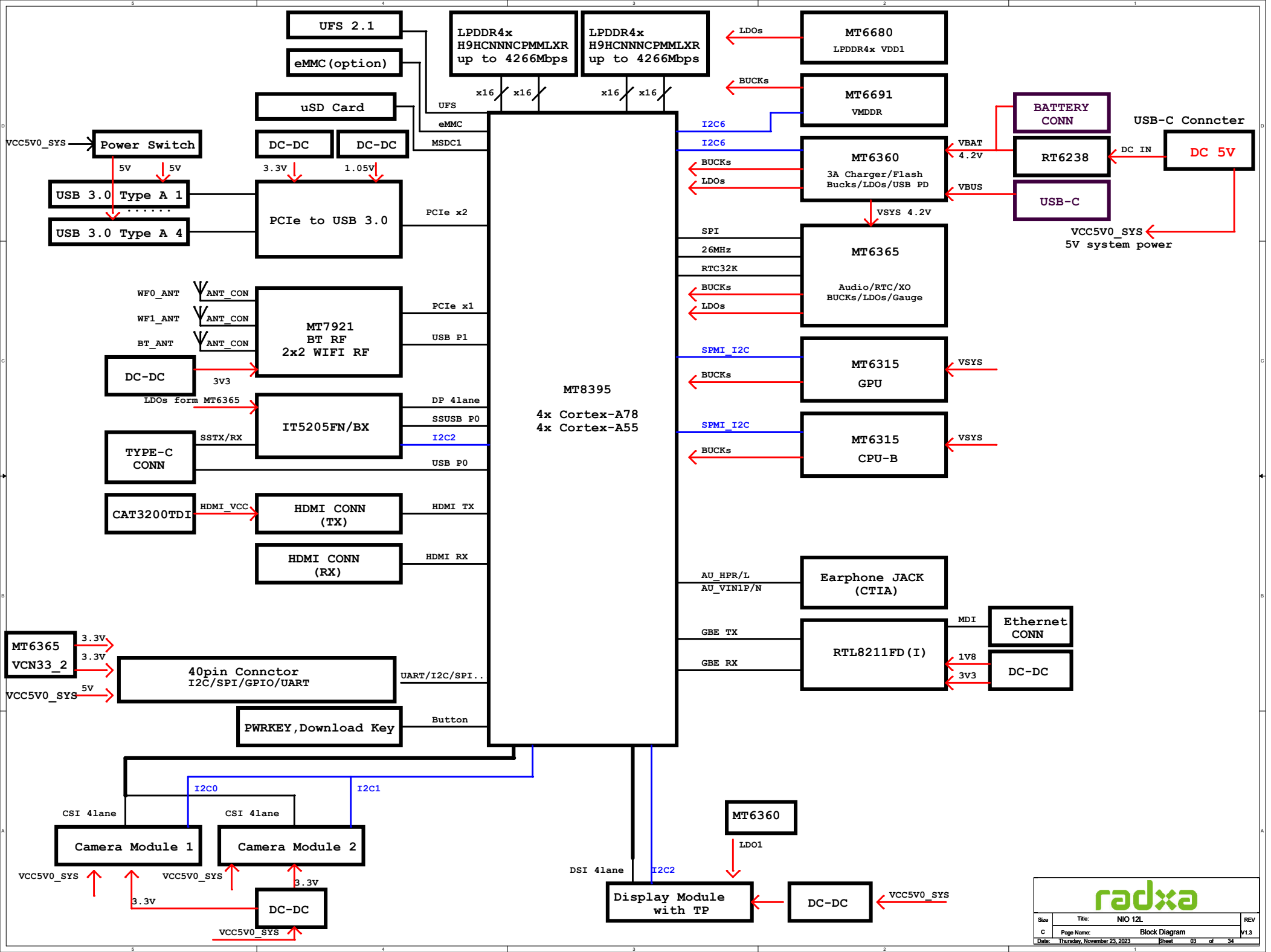
V1.3

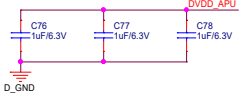
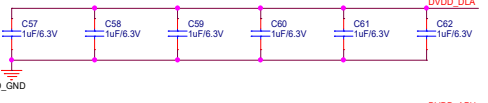
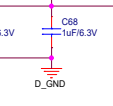
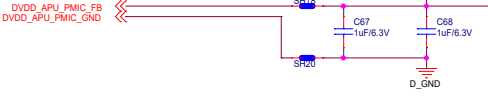
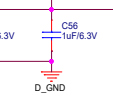
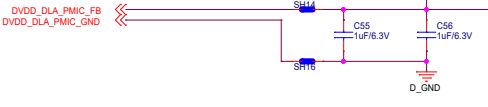
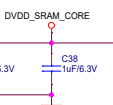
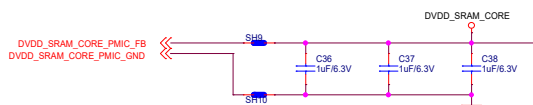
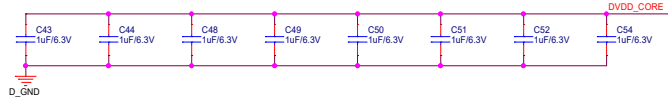
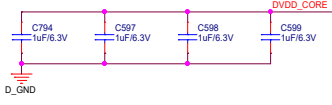
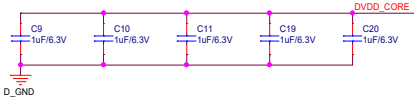
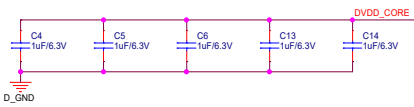
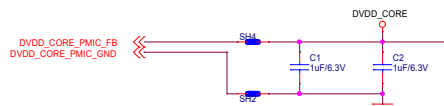
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U1-2	VCORE
P14	DVDD_CORE
P23	DVDD_CORE
AE27	DVDD_CORE
AJ23	DVDD_CORE
AC25	DVDD_CORE
AB22	DVDD_CORE
AB21	DVDD_CORE
R13	DVDD_CORE
M12	DVDD_CORE
L14	DVDD_CORE
L17	DVDD_CORE
M14	DVDD_CORE
M17	DVDD_CORE
M23	DVDD_CORE
M13	DVDD_CORE
N17	DVDD_CORE
N18	DVDD_CORE
P13	DVDD_CORE
P17	DVDD_CORE
P18	DVDD_CORE
R14	DVDD_CORE
R17	DVDD_CORE
R18	DVDD_CORE
R22	DVDD_CORE
R23	DVDD_CORE
T13	DVDD_CORE
T14	DVDD_CORE
T21	DVDD_CORE
T22	DVDD_CORE
U13	DVDD_CORE
U14	DVDD_CORE
U17	DVDD_CORE
U18	DVDD_CORE
U21	DVDD_CORE
U22	DVDD_CORE
V13	DVDD_CORE
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Y22	DVDD_CORE
AA18	DVDD_CORE
AA21	DVDD_CORE
AA25	DVDD_CORE
AA26	DVDD_CORE
AB25	DVDD_CORE
AB26	DVDD_CORE
AC25	DVDD_CORE
AC26	DVDD_CORE
AC25	DVDD_CORE
AD26	DVDD_CORE
AE26	DVDD_CORE
AF25	DVDD_CORE
AF26	DVDD_CORE
L30	DVDD_CORE
M20	DVDD_CORE
J21	DVDD_CORE
L21	DVDD_CORE
L22	DVDD_CORE
M21	DVDD_CORE
L23	DVDD_CORE

N13	DVDD_SRAM_CORE
M18	DVDD_SRAM_CORE
M22	DVDD_SRAM_CORE
T12	DVDD_SRAM_CORE
T19	DVDD_SRAM_CORE
AA17	DVDD_SRAM_CORE
AE25	DVDD_SRAM_CORE
AJ8	DVDD_SRAM_CORE

AC17	DVDD_DLA
AD17	DVDD_DLA
AD18	DVDD_DLA
AE17	DVDD_DLA
AF17	DVDD_DLA
AF18	DVDD_DLA
AG17	DVDD_DLA
AG18	DVDD_DLA
AH17	DVDD_DLA
AH18	DVDD_DLA
AB17	DVDD_DLA

AD22	DVDD_APU
AE21	DVDD_APU
AE22	DVDD_APU
AF22	DVDD_APU
AG21	DVDD_APU
AG22	DVDD_APU
AD21	DVDD_APU
AH21	DVDD_APU

MT8395

VPROC_B

W24	DVDD_PROC_B
L28	DVDD_PROC_B
K25	DVDD_PROC_B
K26	DVDD_PROC_B
K27	DVDD_PROC_B
L25	DVDD_PROC_B
L26	DVDD_PROC_B
L27	DVDD_PROC_B
M25	DVDD_PROC_B
M26	DVDD_PROC_B
N25	DVDD_PROC_B
N26	DVDD_PROC_B
U25	DVDD_PROC_B
U26	DVDD_PROC_B
V25	DVDD_PROC_B
V26	DVDD_PROC_B
W25	DVDD_PROC_B
W26	DVDD_PROC_B
W27	DVDD_PROC_B
Y25	DVDD_PROC_B
Y26	DVDD_PROC_B
Y27	DVDD_PROC_B

VPROC_L

R27	DVDD_PROC_L
P25	DVDD_PROC_L
P26	DVDD_PROC_L
R25	DVDD_PROC_L
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T26	DVDD_PROC_L
T27	DVDD_PROC_L

VGPU

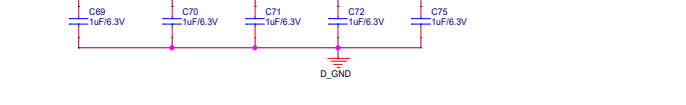
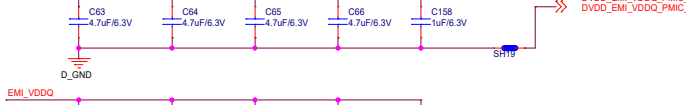
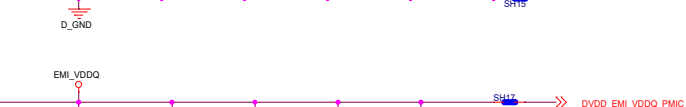
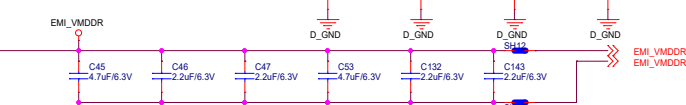
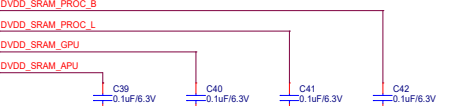
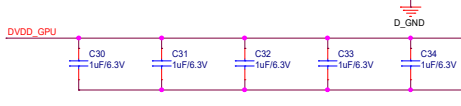
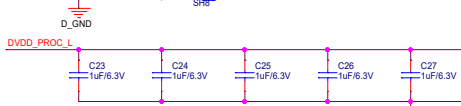
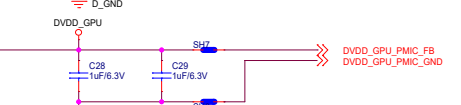
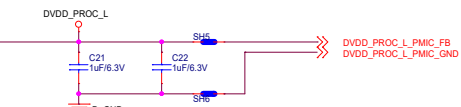
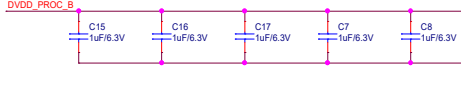
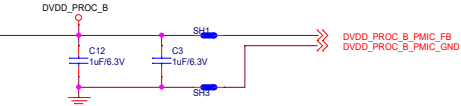
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Y13	DVDD_GPU
AA10	DVDD_GPU
AA13	DVDD_GPU
AA14	DVDD_GPU
AB10	DVDD_GPU
AB13	DVDD_GPU
AB14	DVDD_GPU
AC10	DVDD_GPU
AD10	DVDD_GPU
AD13	DVDD_GPU
AE10	DVDD_GPU
AE13	DVDD_GPU
AE14	DVDD_GPU
AF10	DVDD_GPU
AF13	DVDD_GPU
AG10	DVDD_GPU
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AH10	DVDD_GPU
AH13	DVDD_GPU
AH14	DVDD_GPU

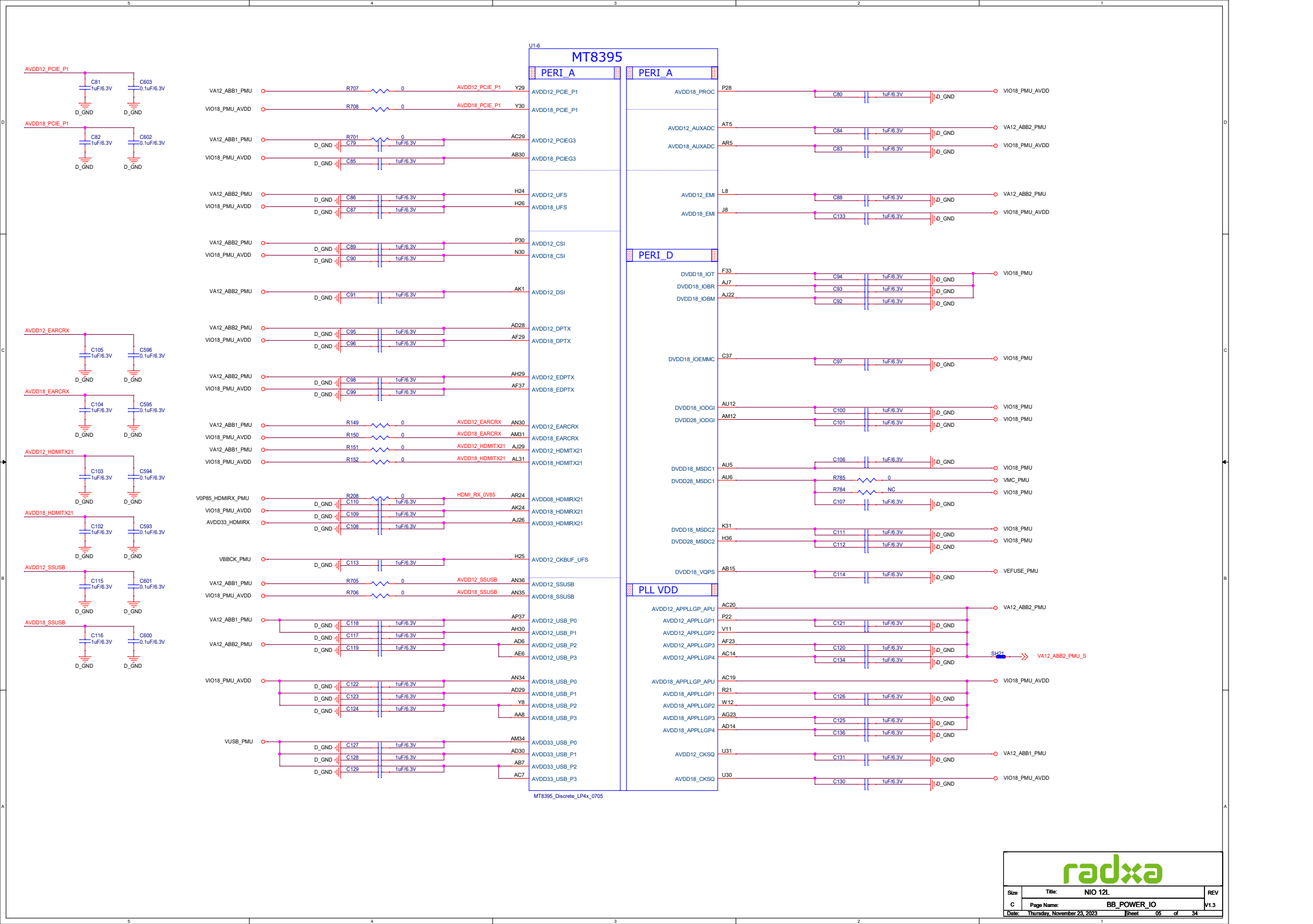
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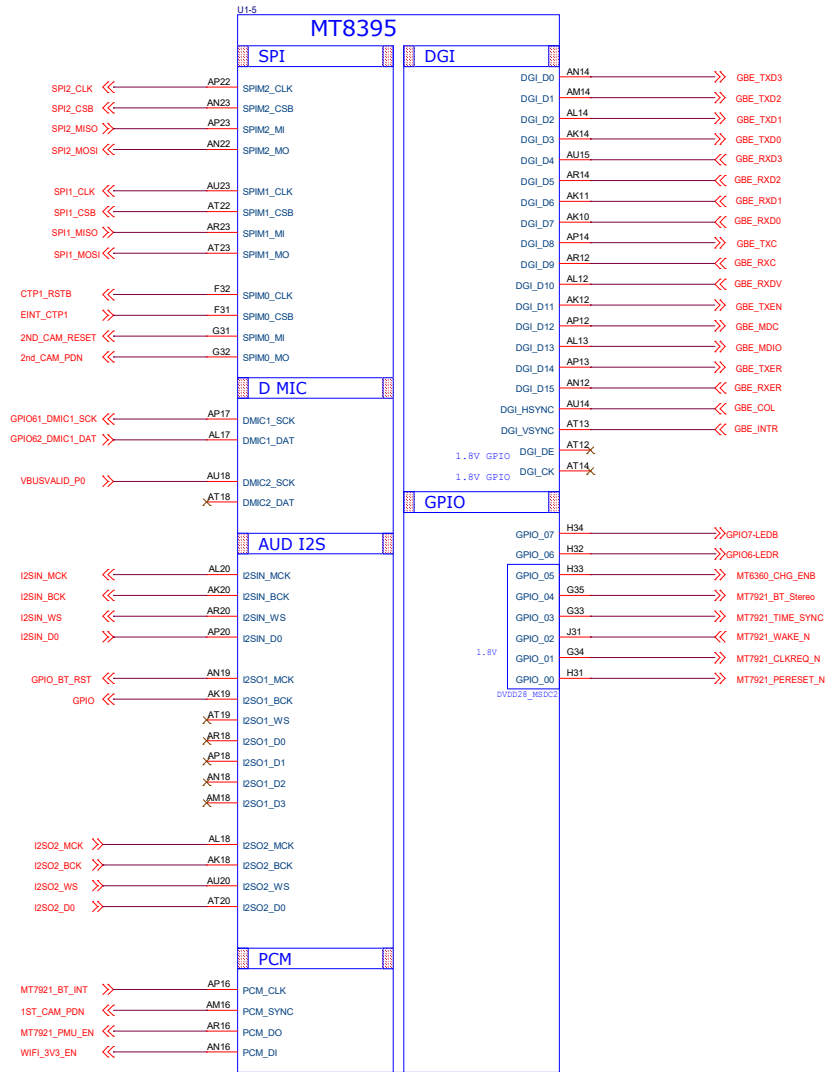
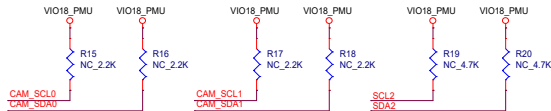
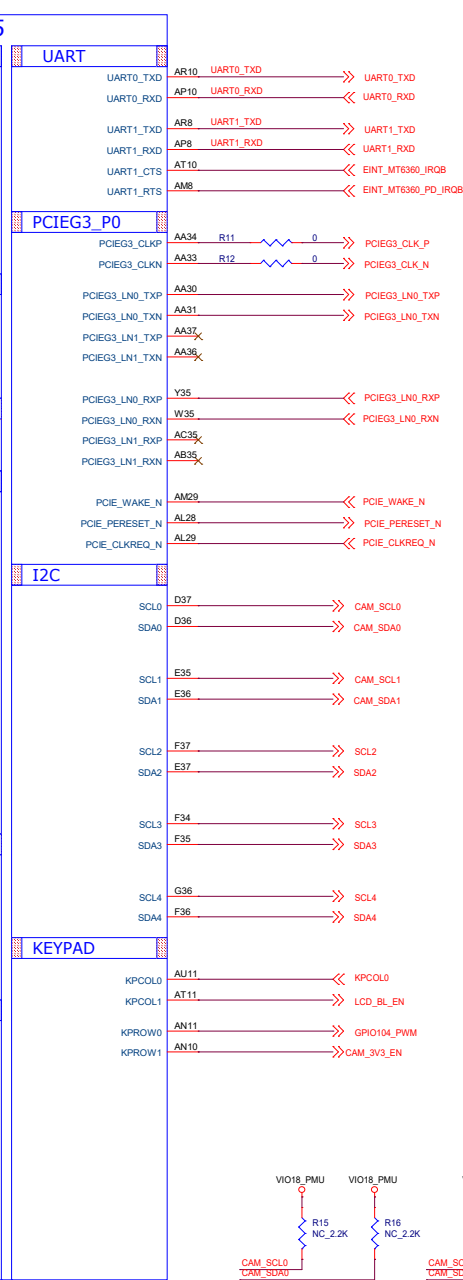
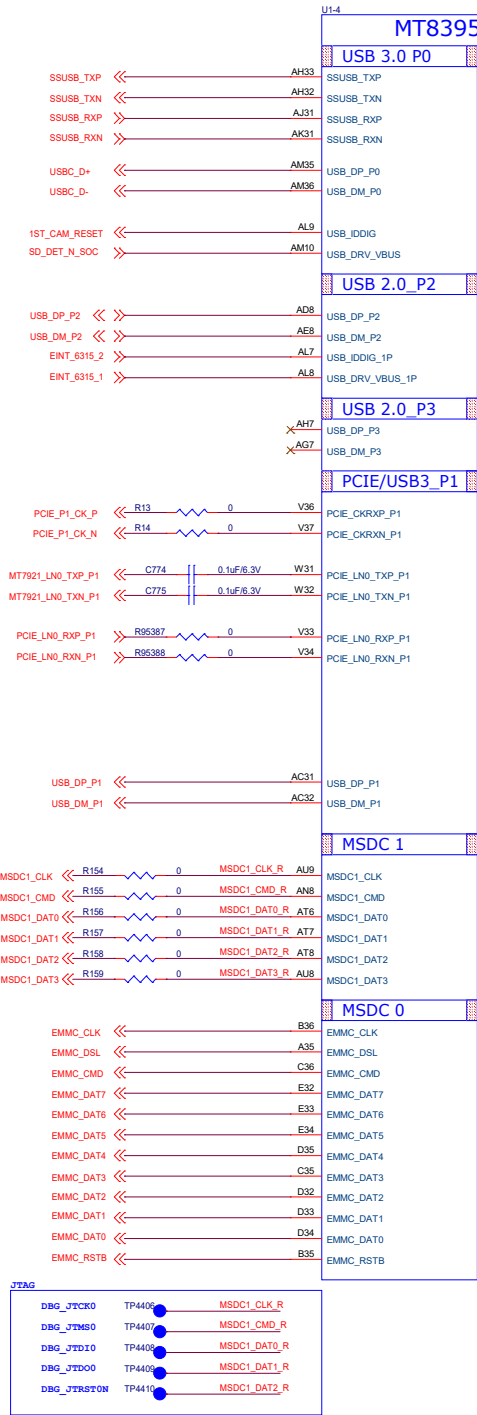
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U23	DVDD_SRAM_PROC_B
R28	DVDD_SRAM_PROC_L
AC12	DVDD_SRAM_GPU
AD11	DVDD_SRAM_GPU
AE18	DVDD_SRAM_APU
AF21	DVDD_SRAM_APU

AVDD EMI

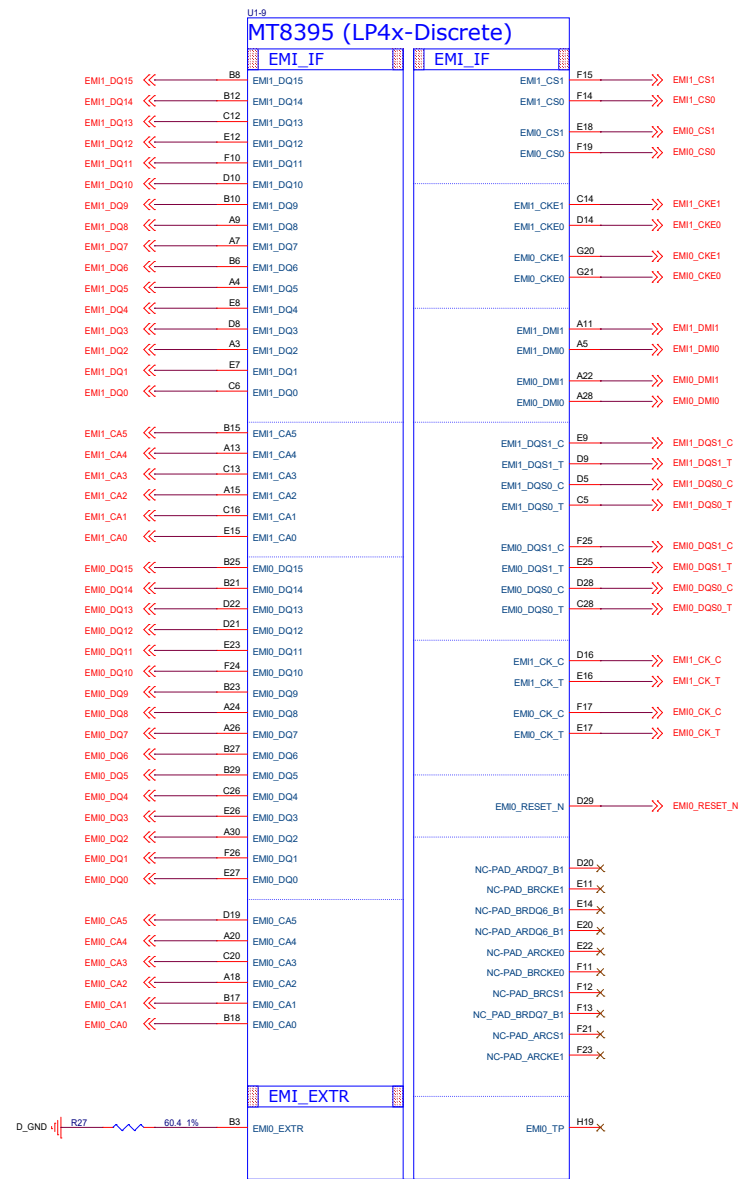
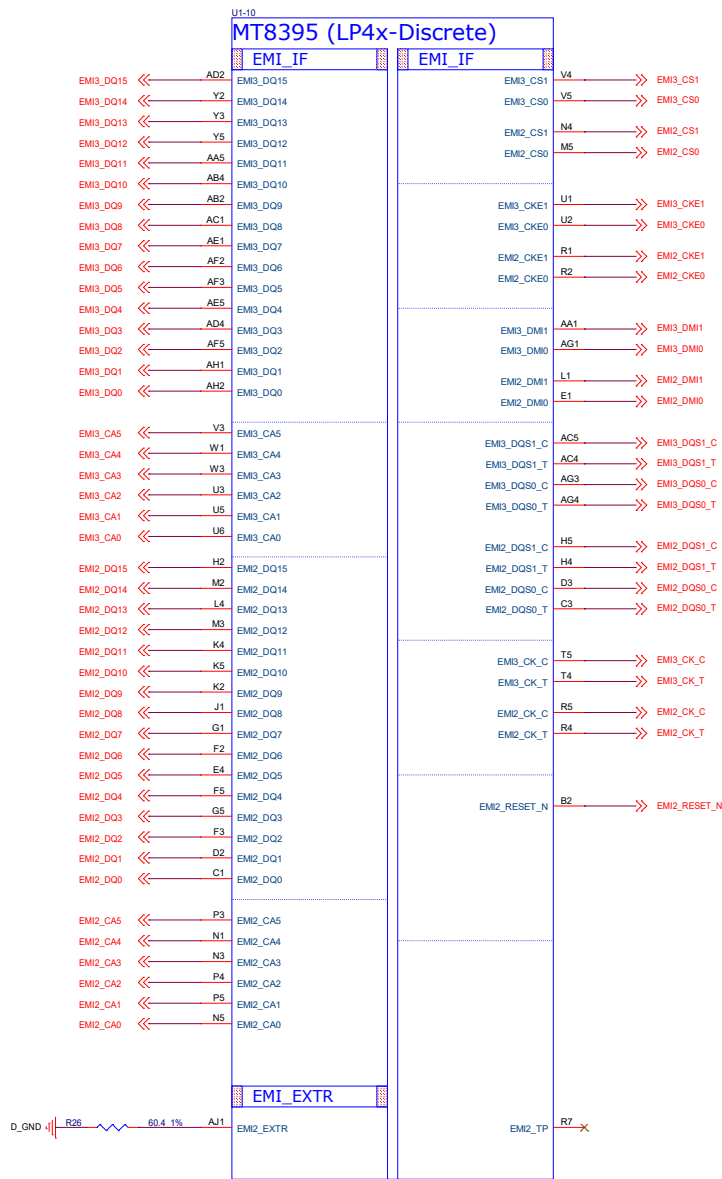
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J15	EMI_VMDR
J16	EMI_VMDR
J17	EMI_VMDR
J18	EMI_VMDR
L9	EMI_VMDR
N9	EMI_VMDR
R9	EMI_VMDR
U9	EMI_VMDR
V9	EMI_VMDR
Y9	EMI_VMDR
K11	EMI_VDDQ
K13	EMI_VDDQ
K14	EMI_VDDQ
K16	EMI_VDDQ
K18	EMI_VDDQ
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Y10	EMI_VDDQ
W10	EMI_VDDQ

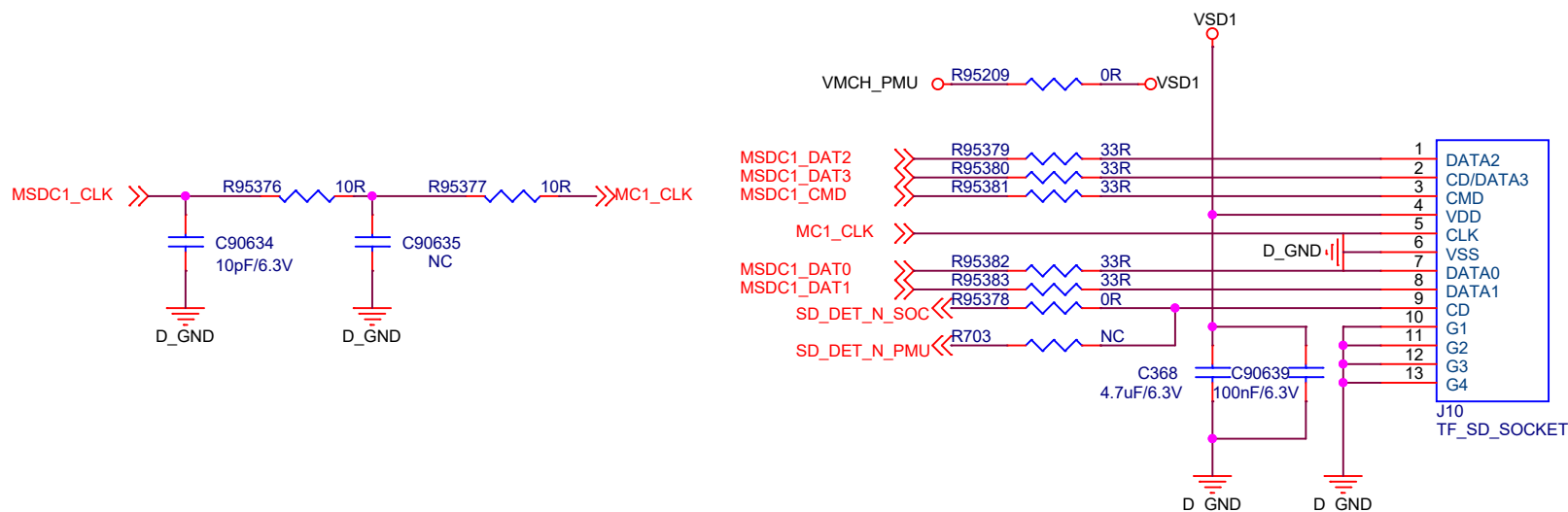
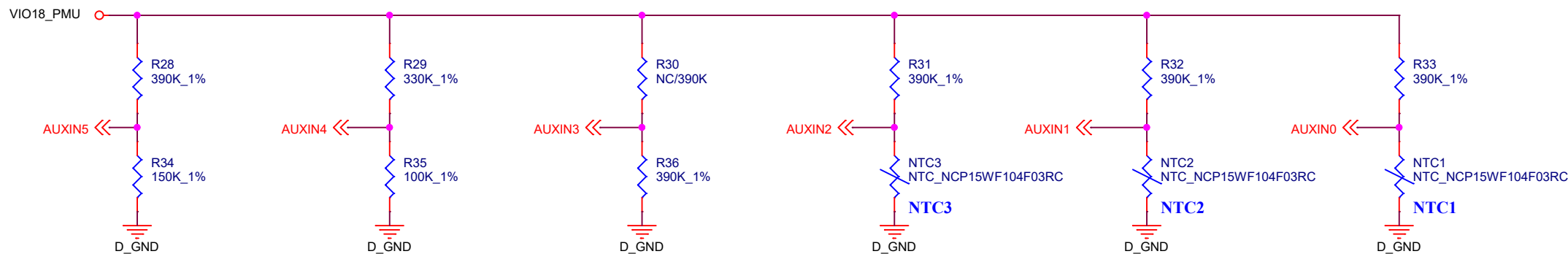






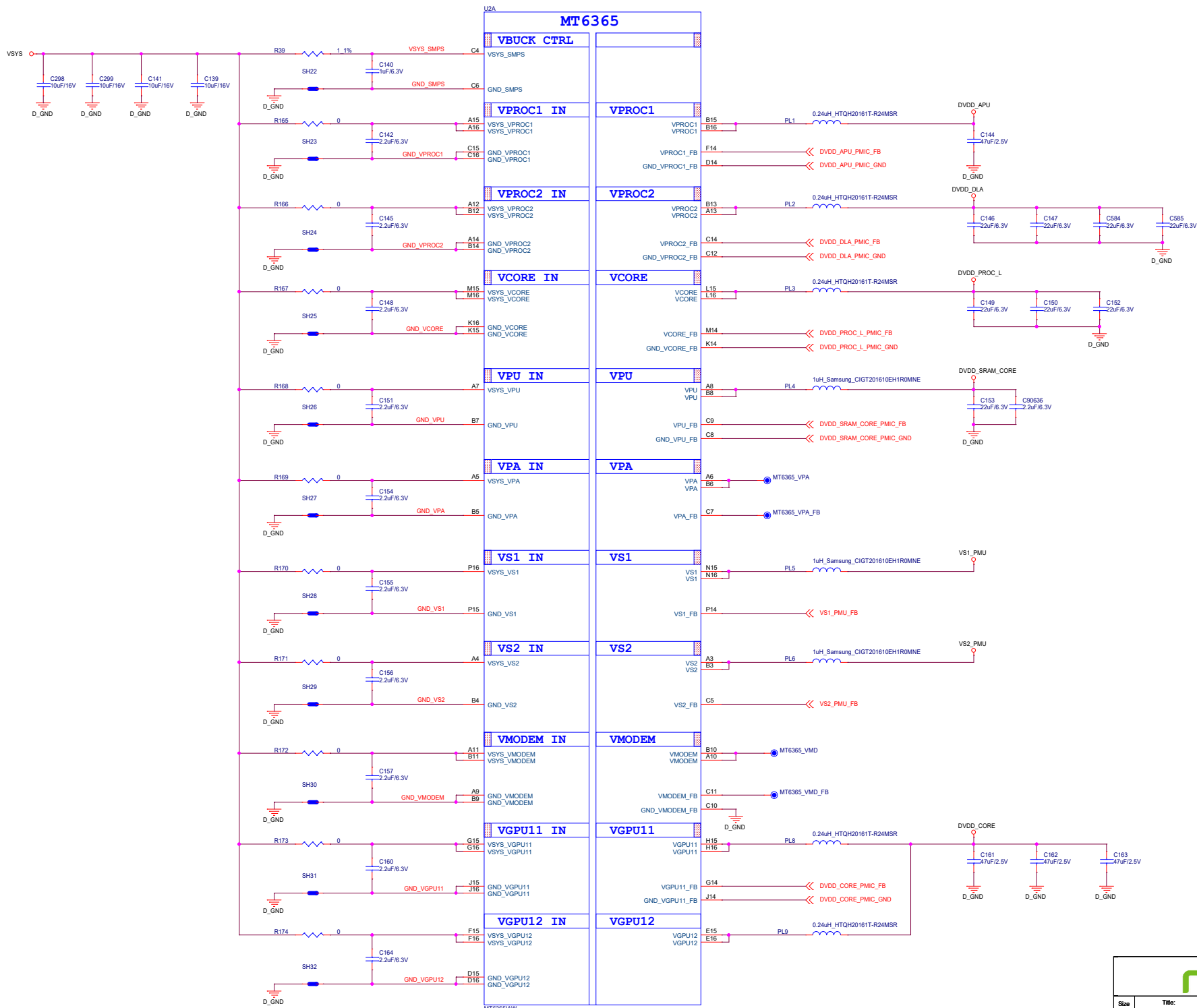


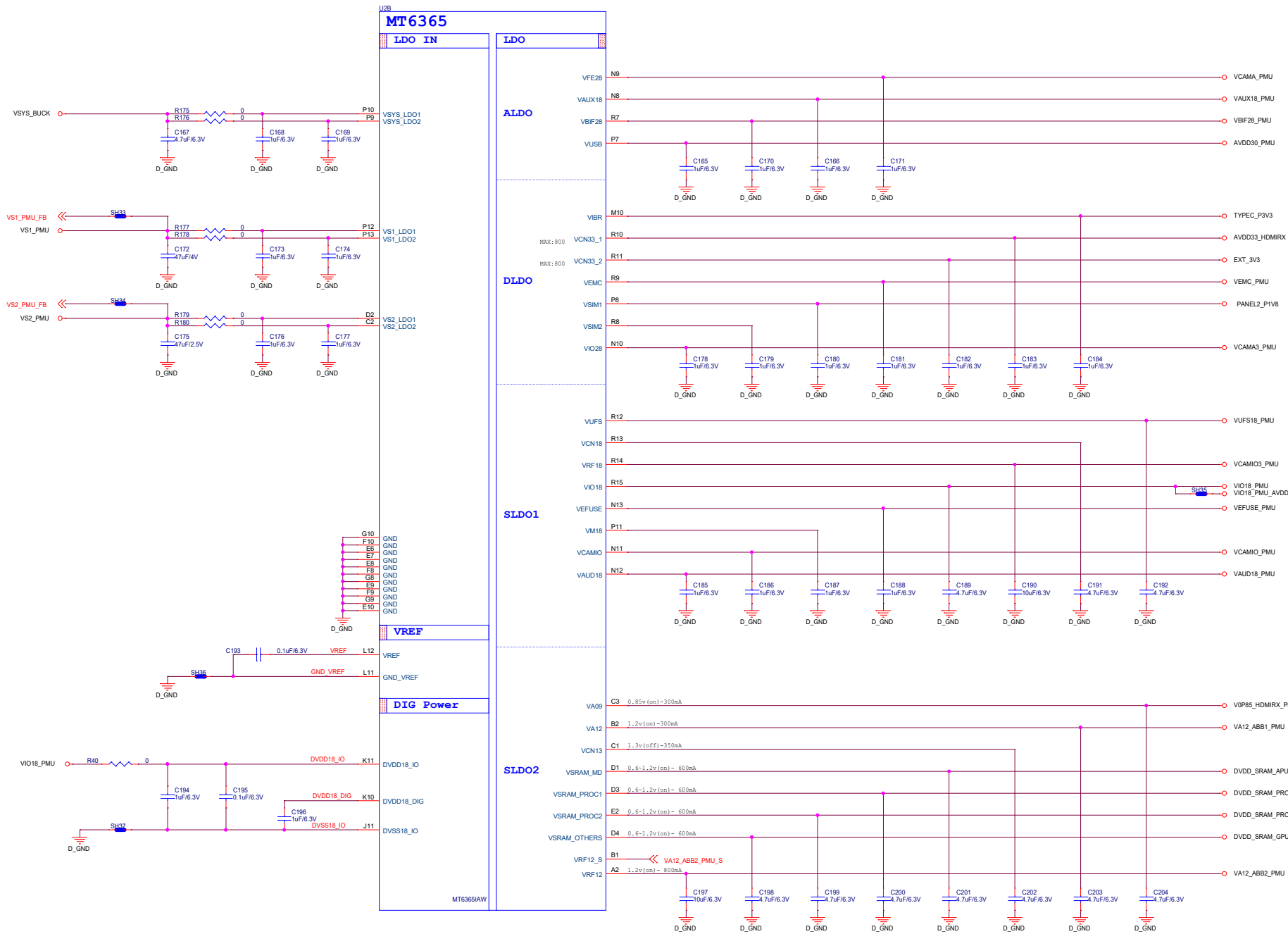


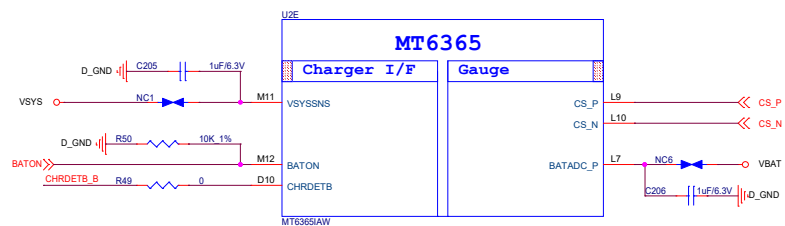
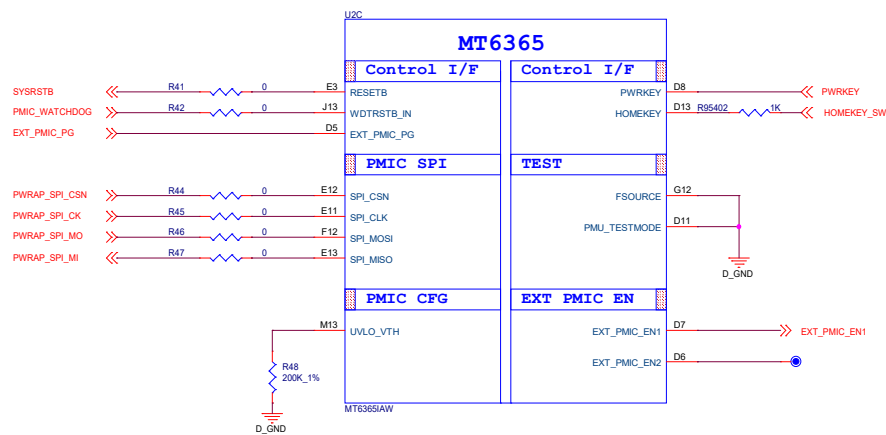


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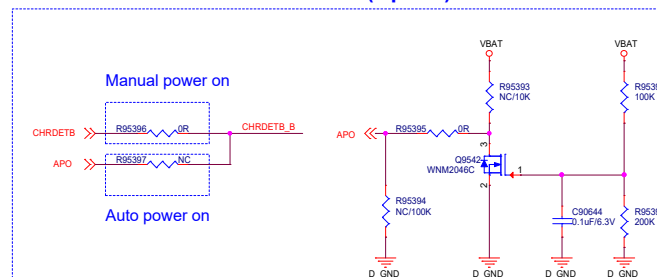
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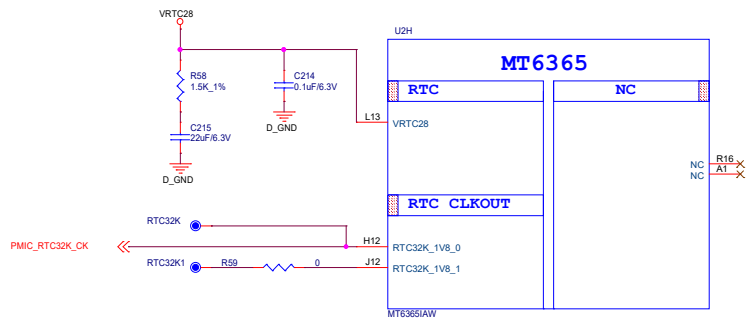
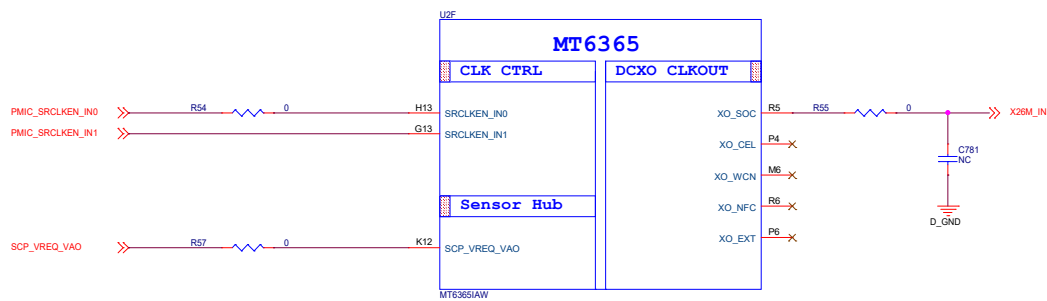
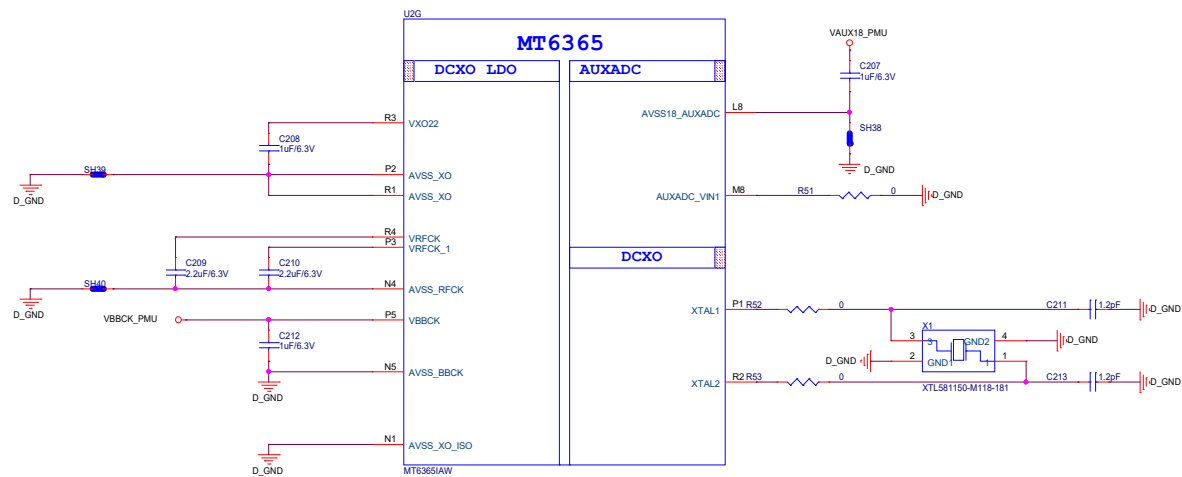


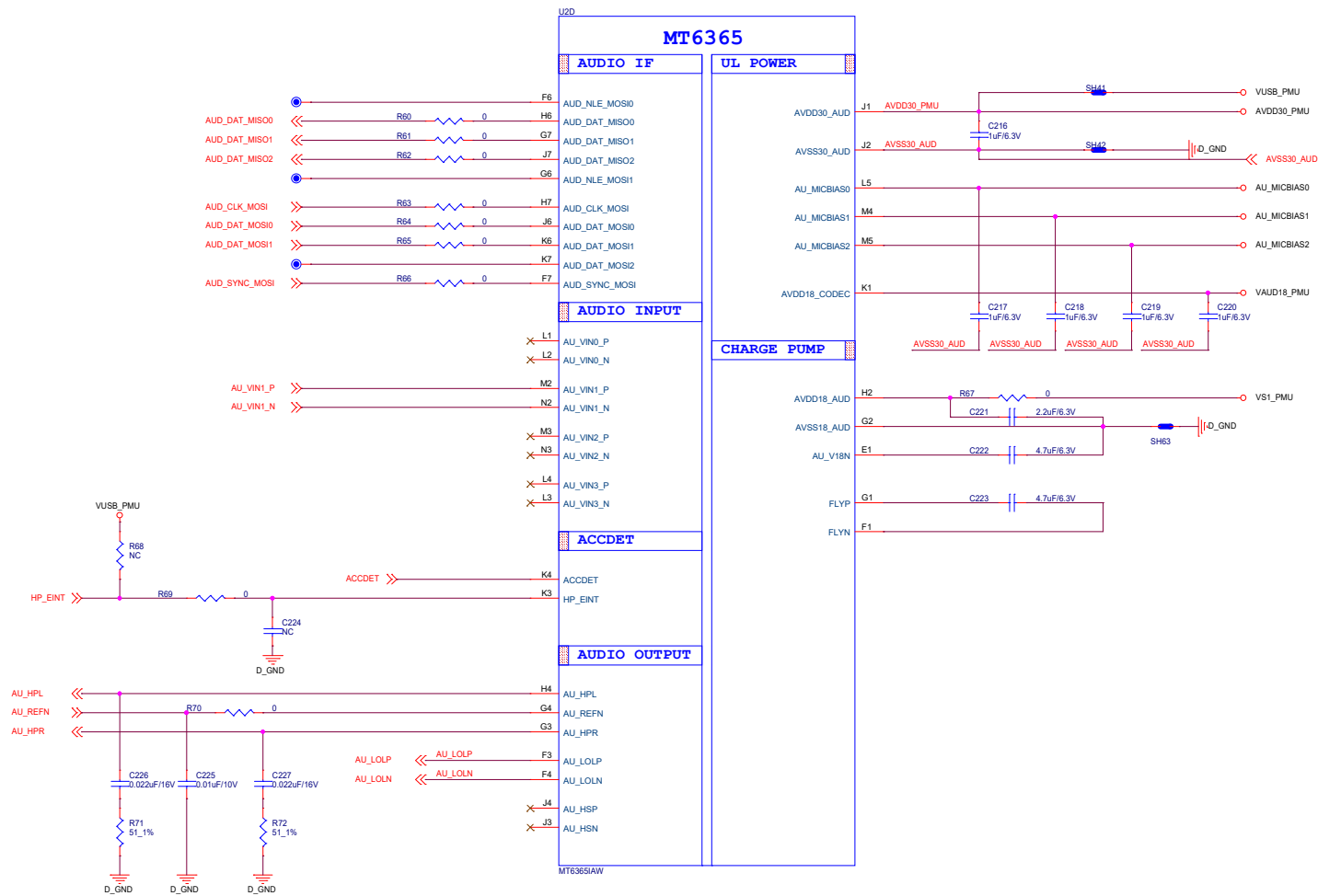




Auto Power On(Optional)

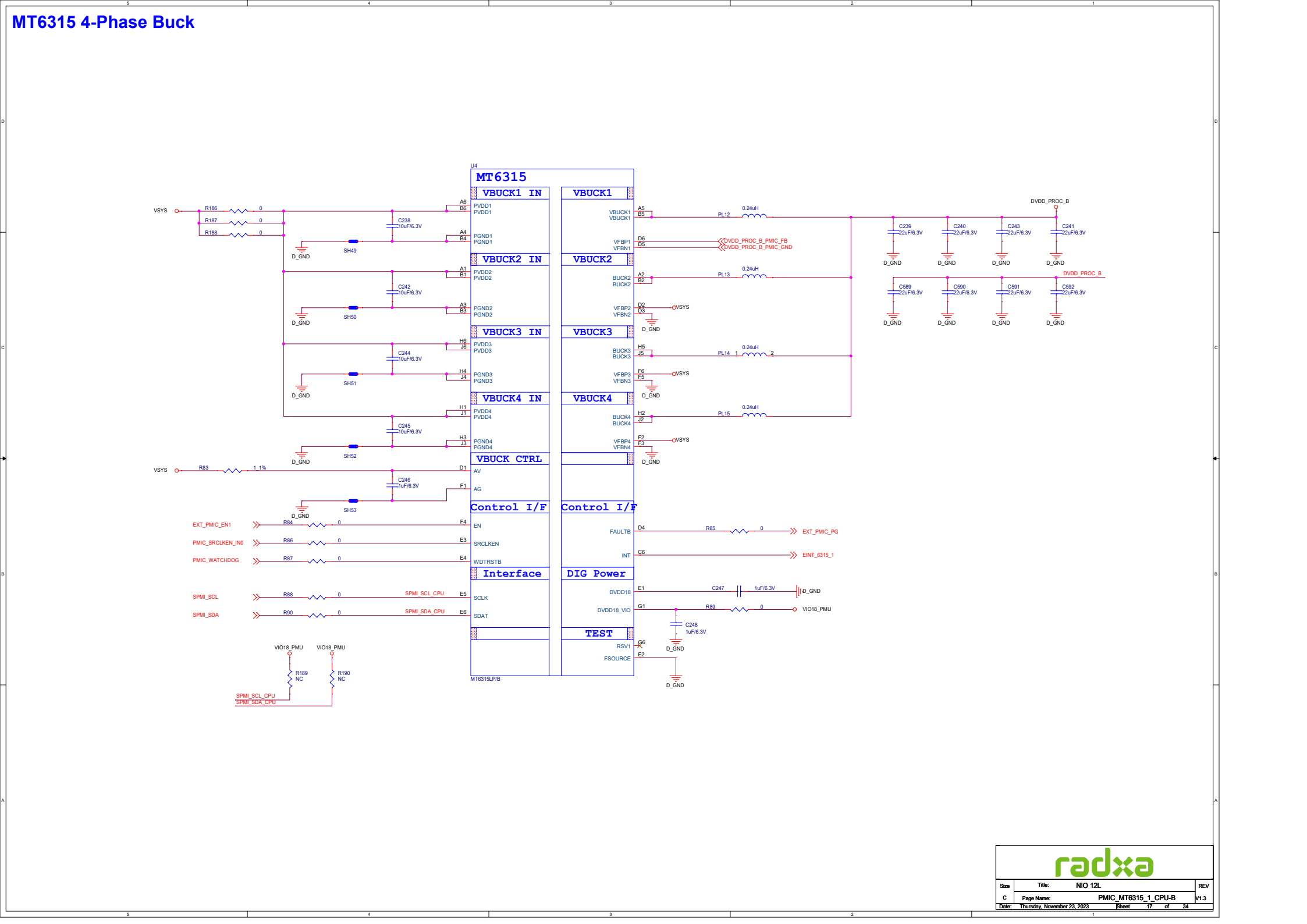


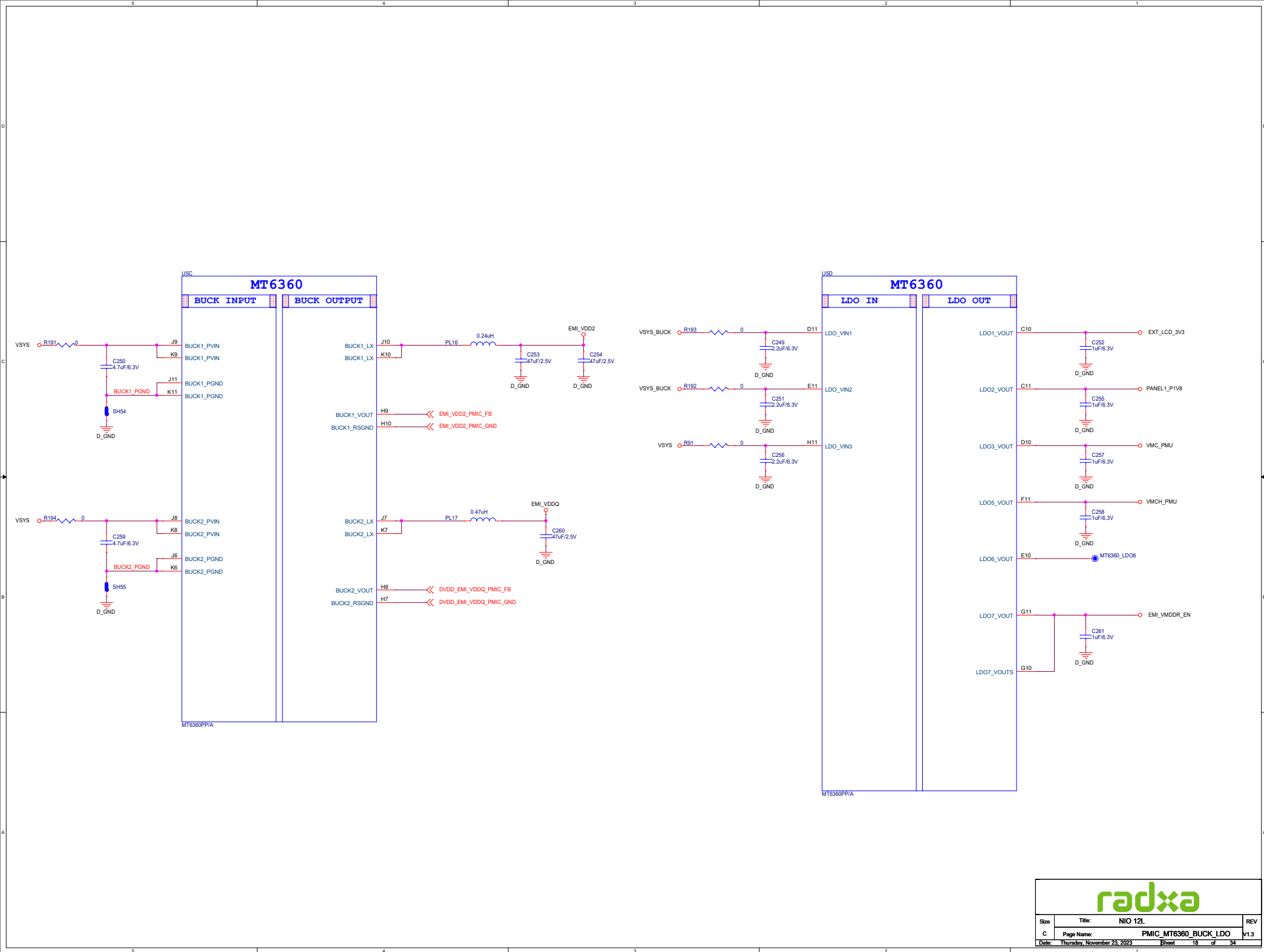


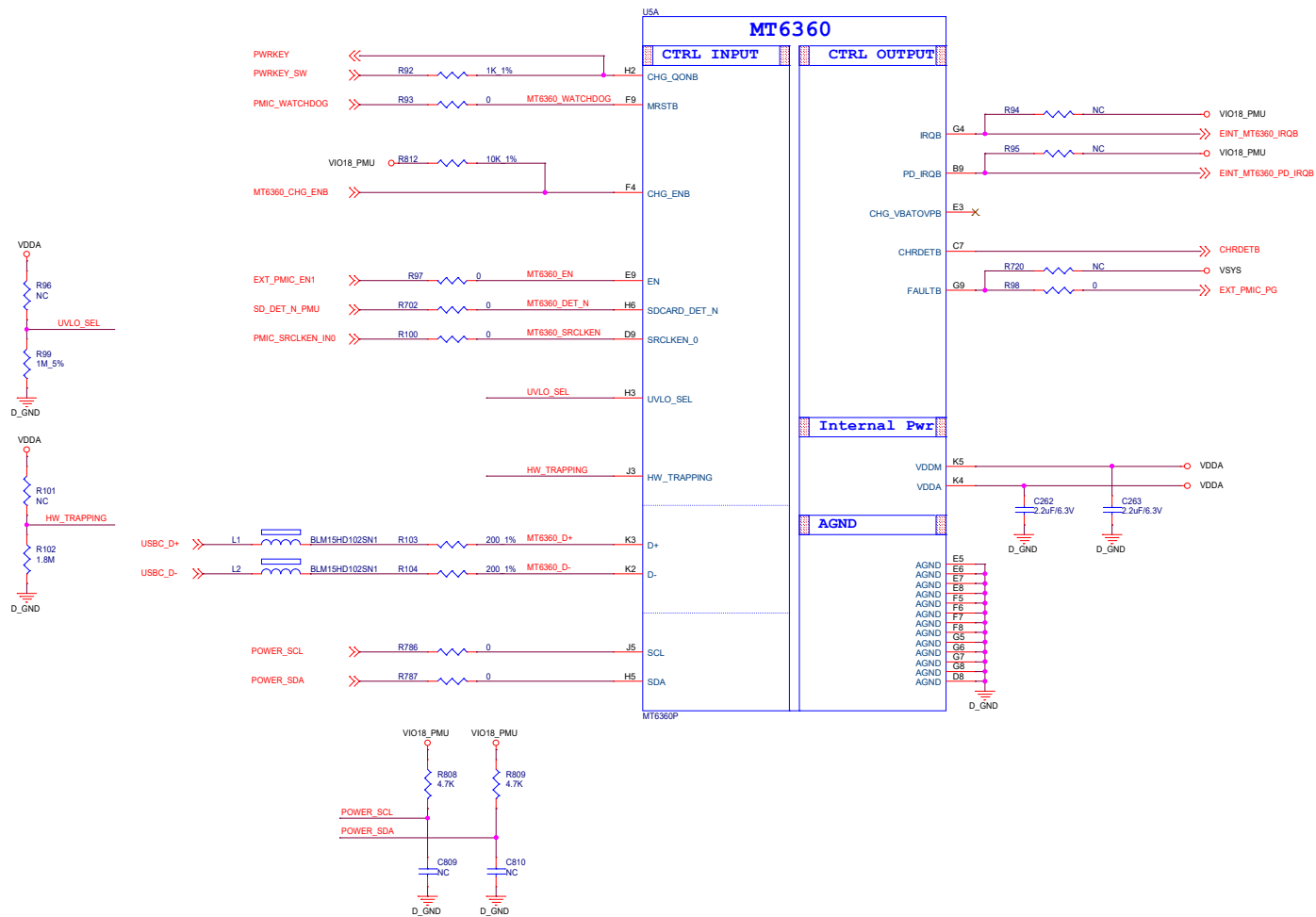


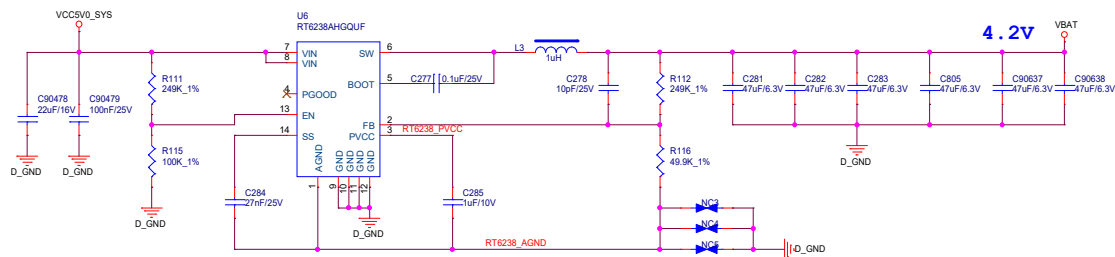
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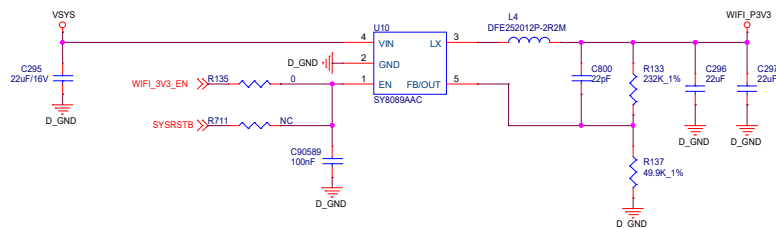




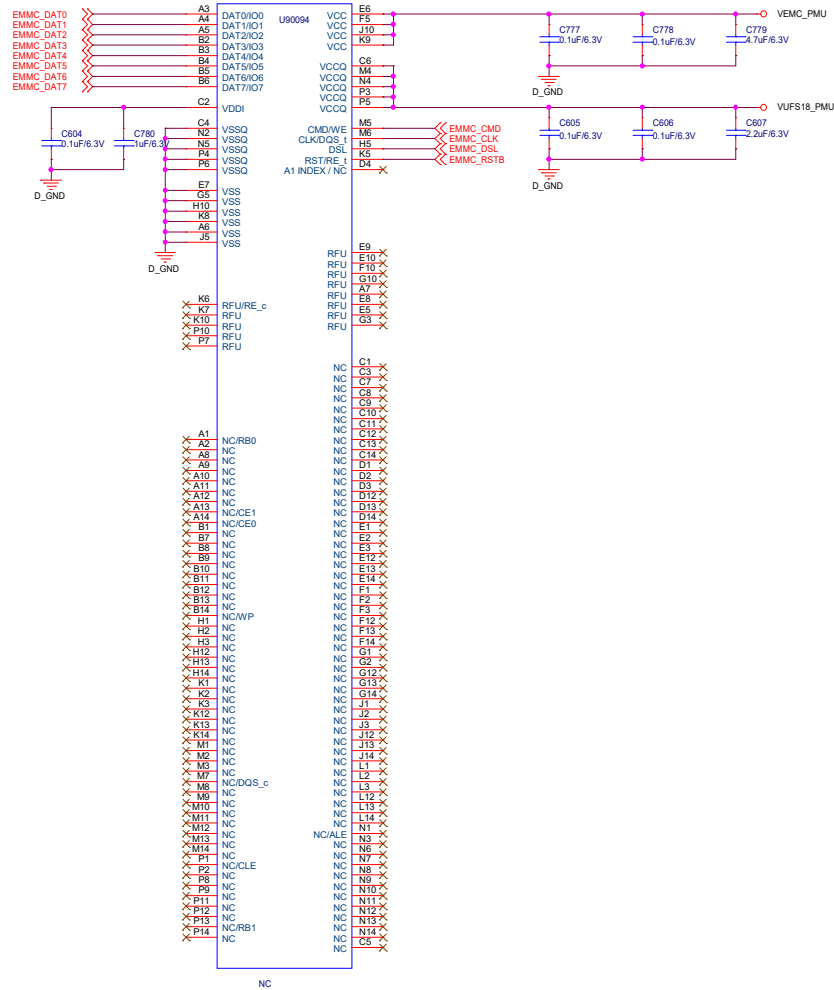




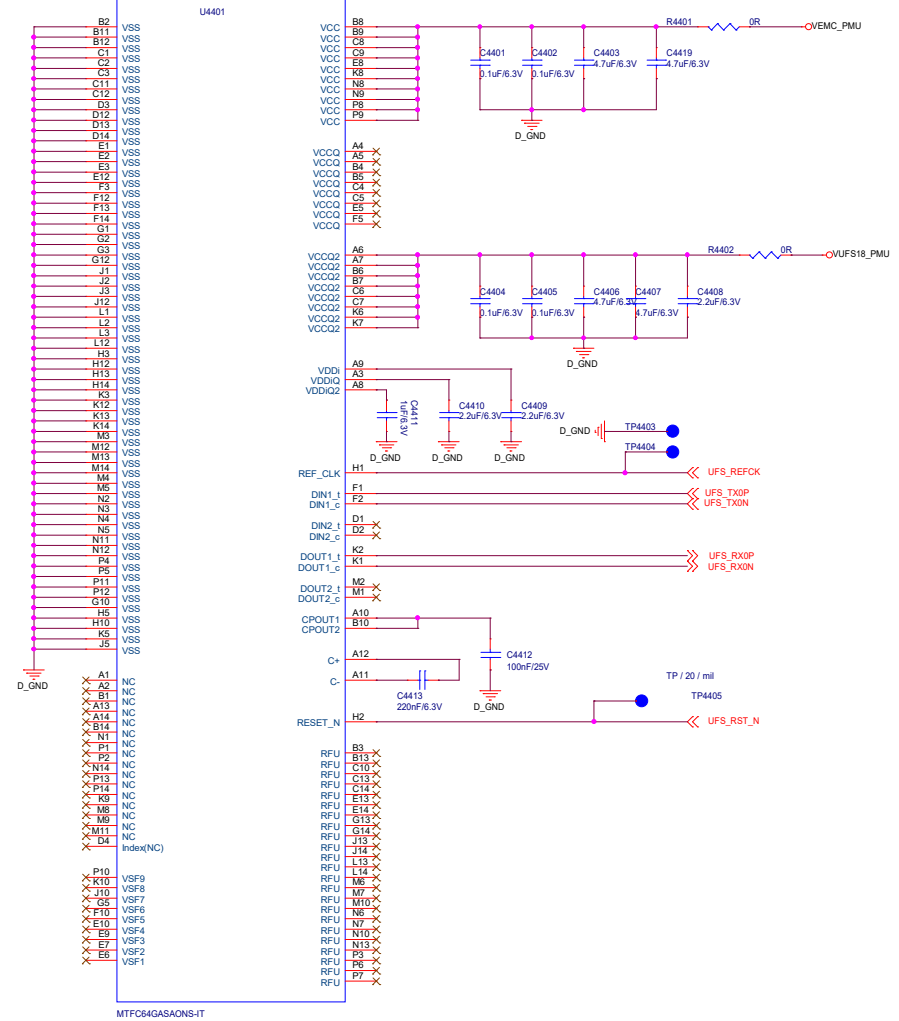
The schematic diagram illustrates the connection of the MT6609 1S/VP1A module to the VSYS and EMI_VMDR pins. The module is represented by a blue box with pins A1, B1, C1, E2, D3, D2, D1, PGND, SW, B2, E3, AGND, C3, PGND, B3, and C2. It includes internal components like capacitors C286, C287, C288, resistors R197, R118, R117, R201, R119, R122, and a 0.33uH inductor PL19. External components include capacitors C286, C287, C288, resistors R197, R118, R117, R201, R119, R122, and a 0.33uH inductor PL19. The module is connected to VSYS, POWER_SCL, SCL2, SDA2, POWER_SDA, EMI_VMDR_EN, and EMI_VMDR pins. The module is also connected to D_GND and EMI_VMDR_FB pins.



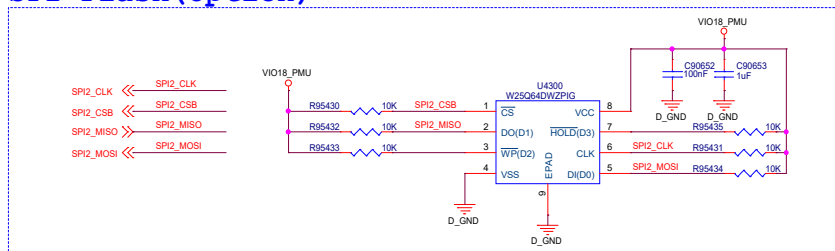
eMMC (Option)



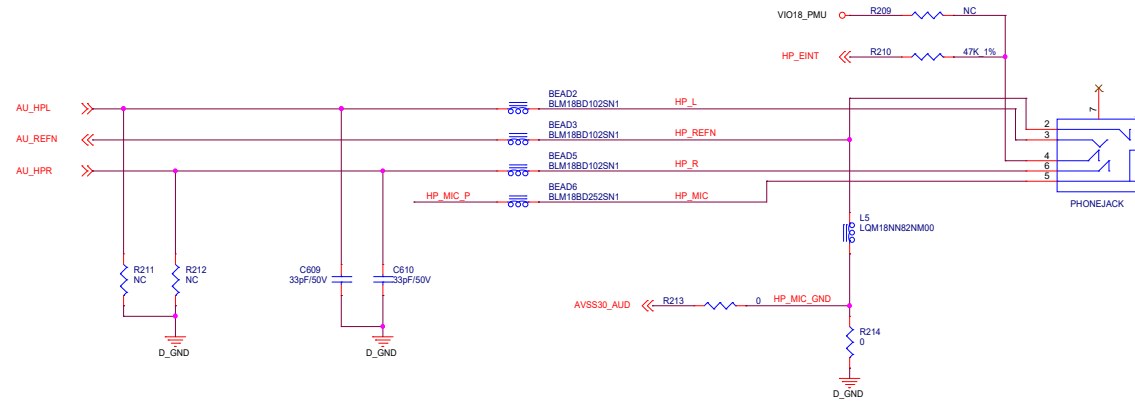
UFS



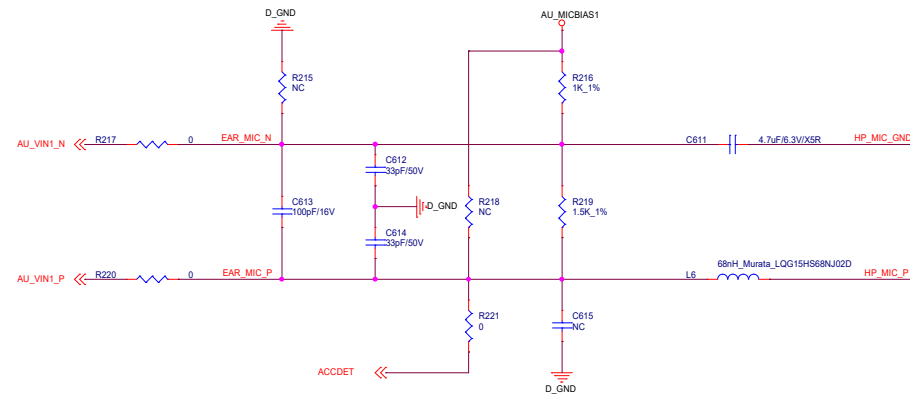
SPI Flash (Option)



Earphone Audio (PMIC)



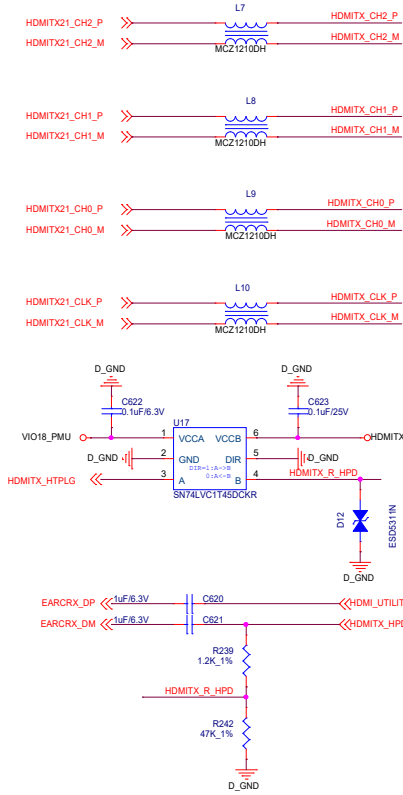
Earphone Microphone (PMIC)



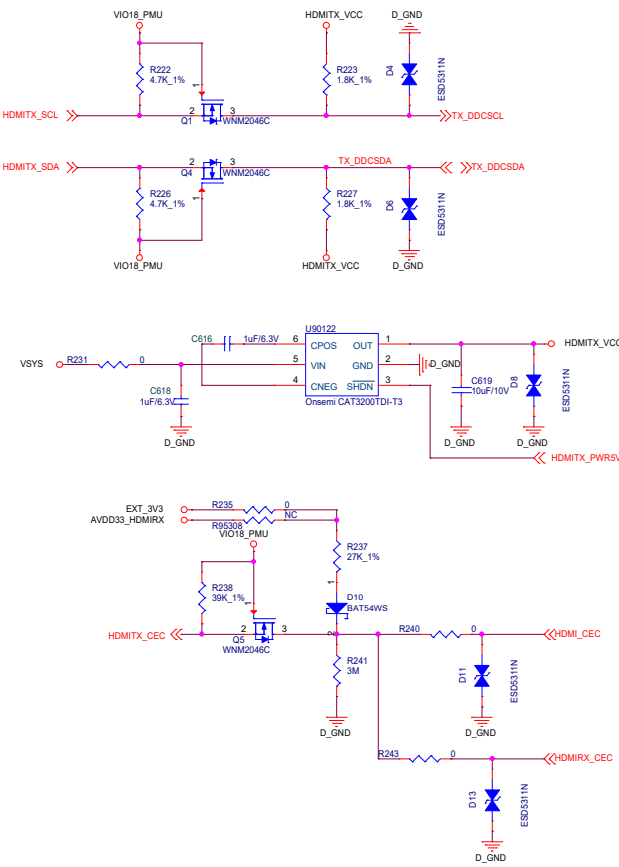
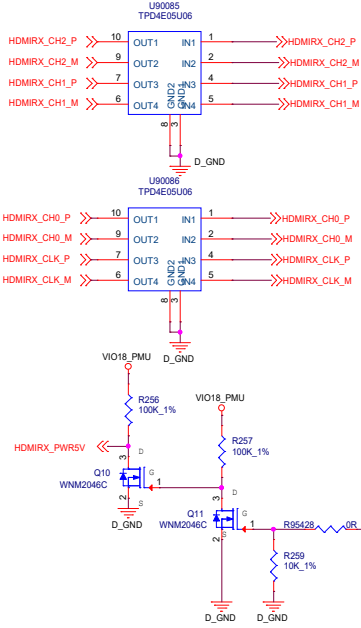
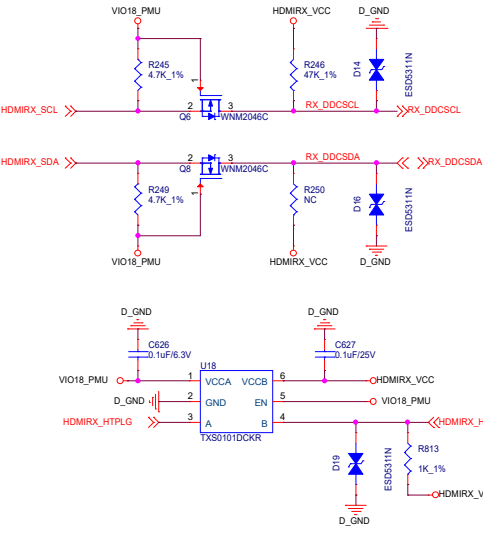
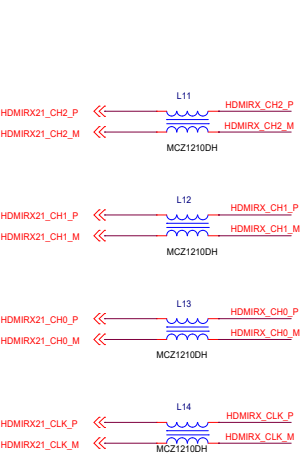
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Size	Title: NIO 12L	REV
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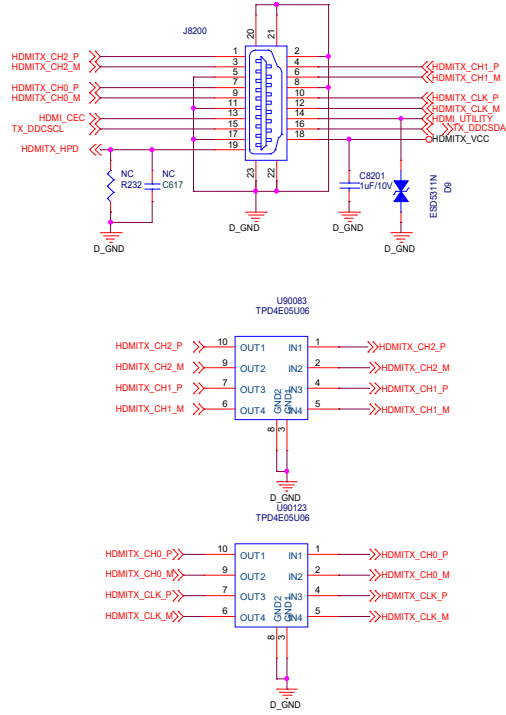
HDMI TX with eARC



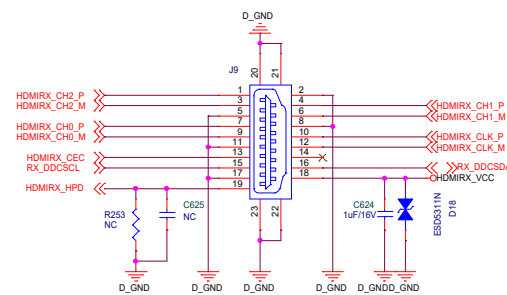
HDMI RX

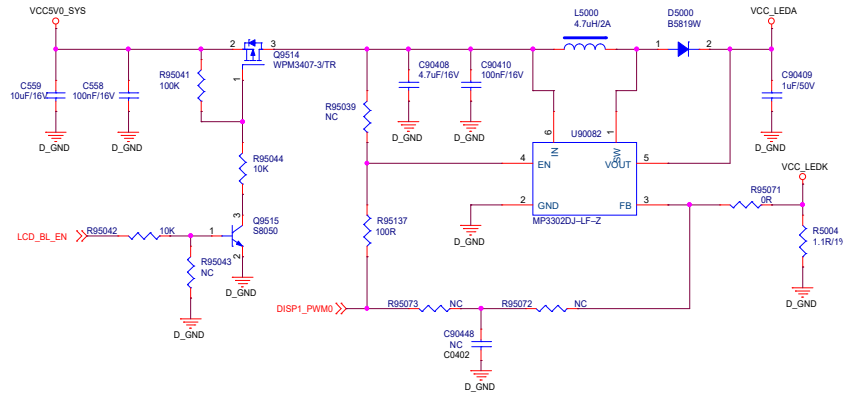
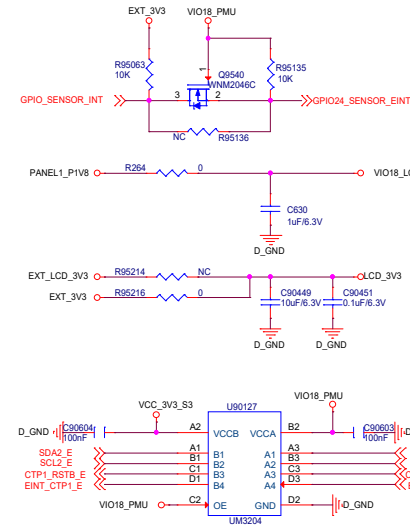
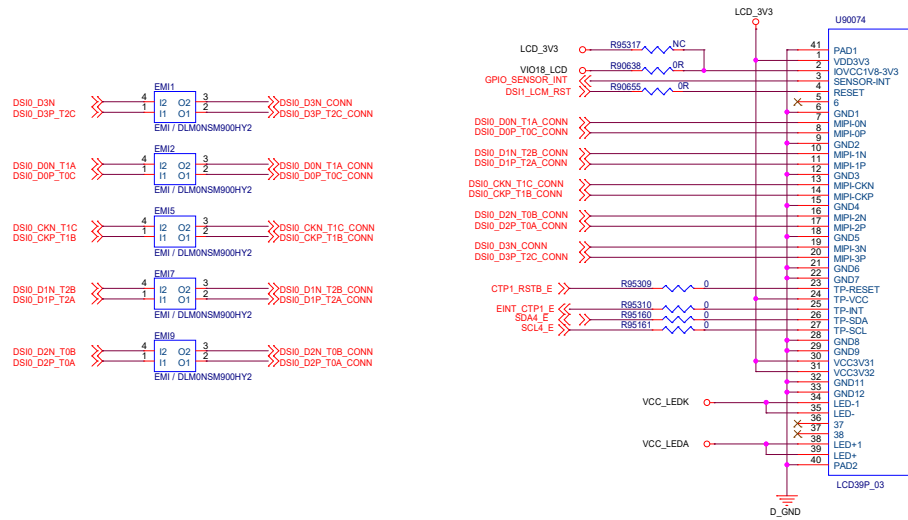


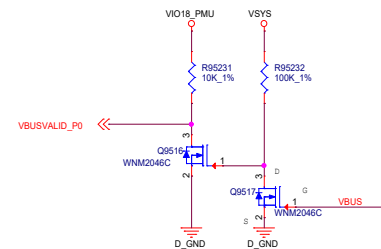
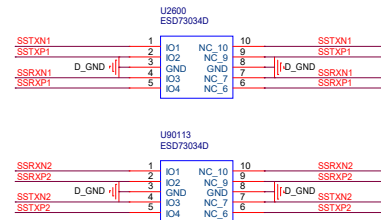
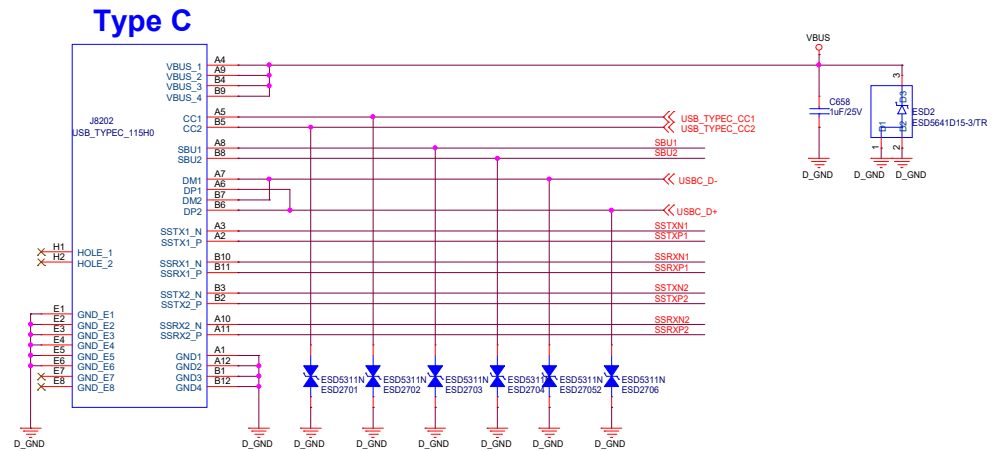
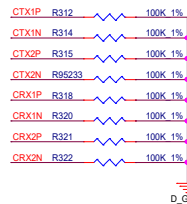
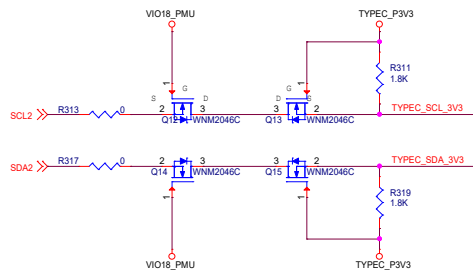
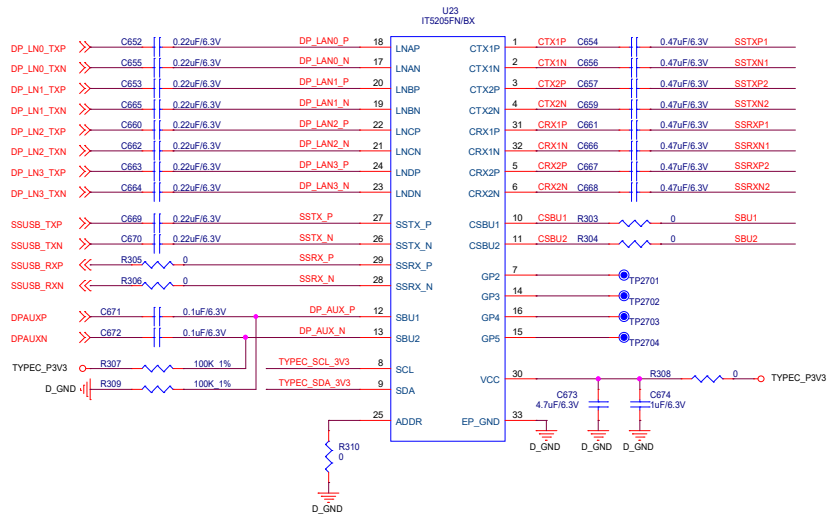
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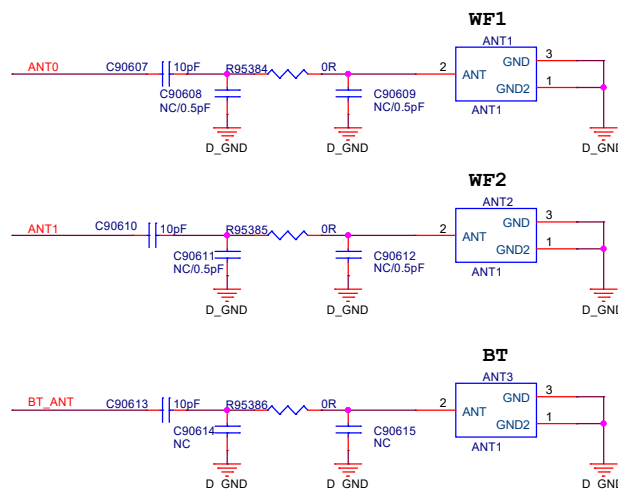
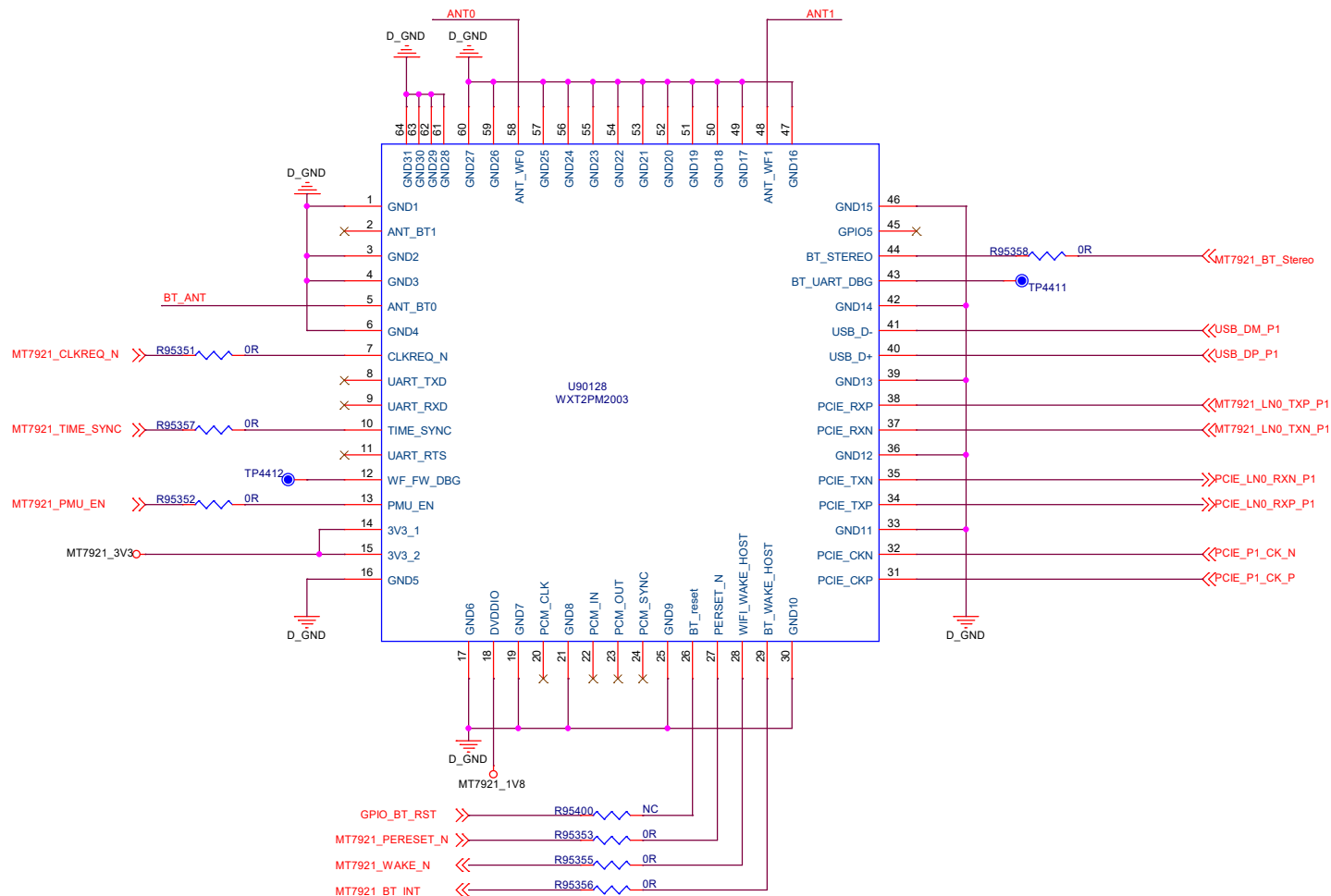
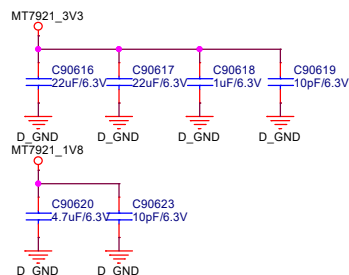


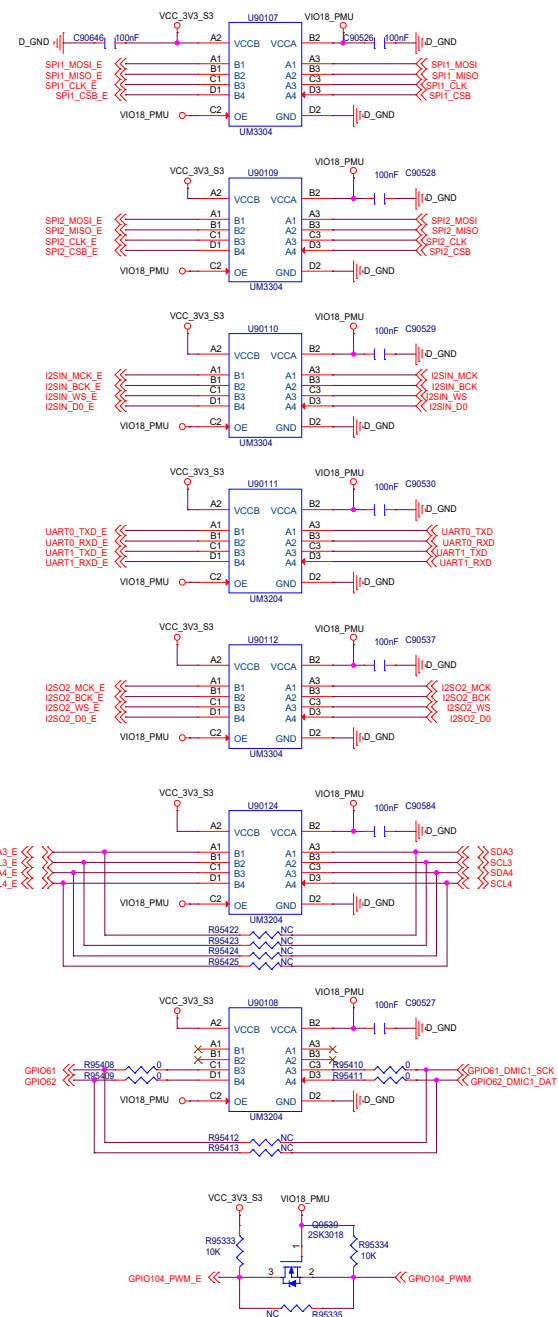
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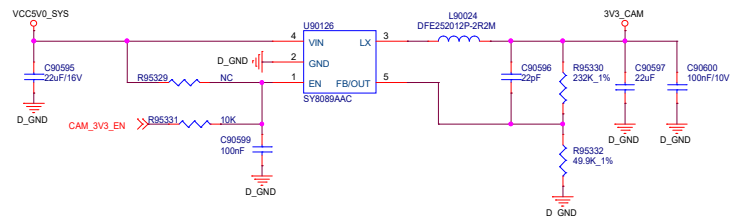




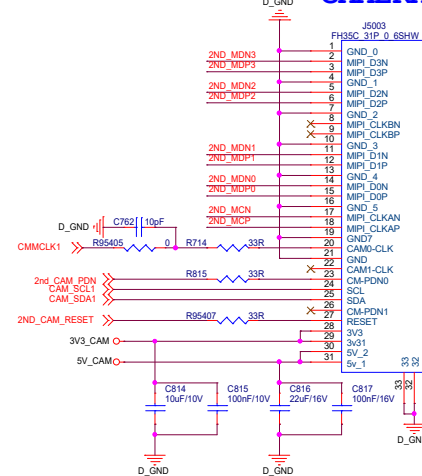




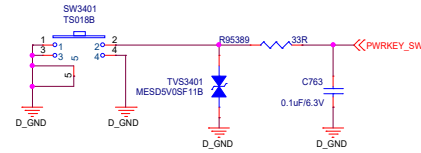




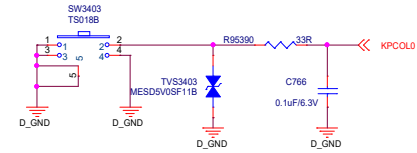
CAMERA2



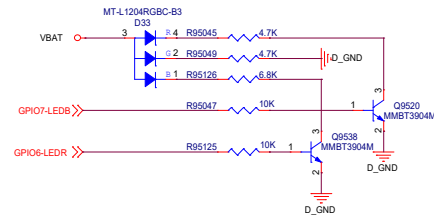
Power Key



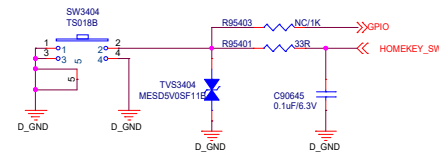
Download Key/Vol +



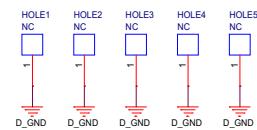
LED



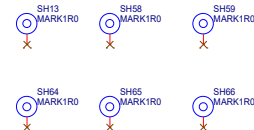
Home Key/Vol -



HOLE



MARK



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Size	Title:	NIO 12L	REV
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