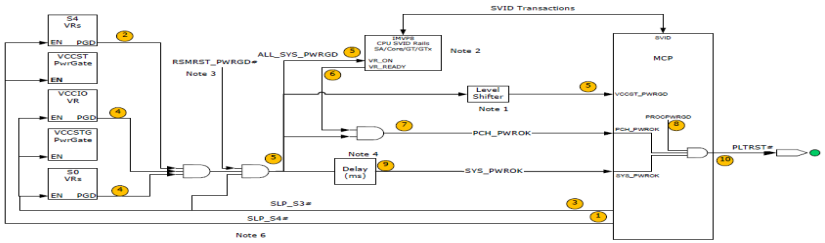
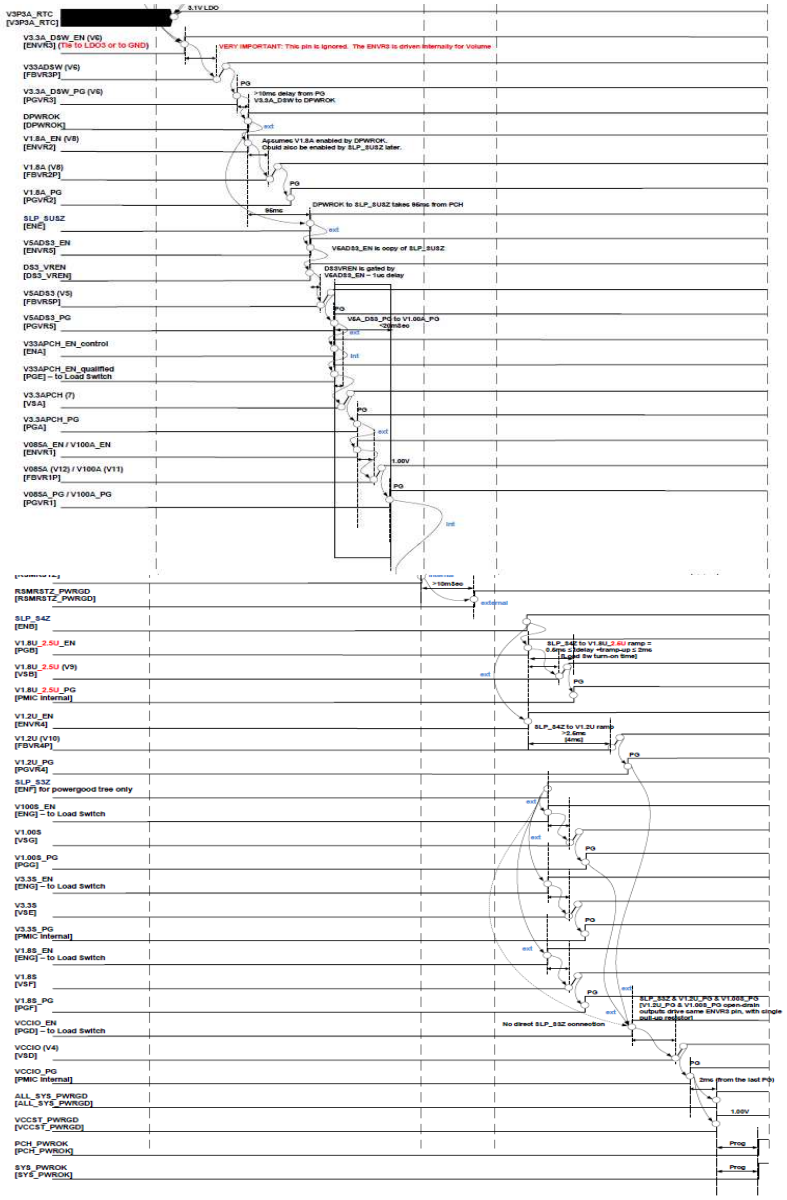
SKL U/Y(Volume Segment) Flow Diagram for SYS_PWROK/PCH_PWROK

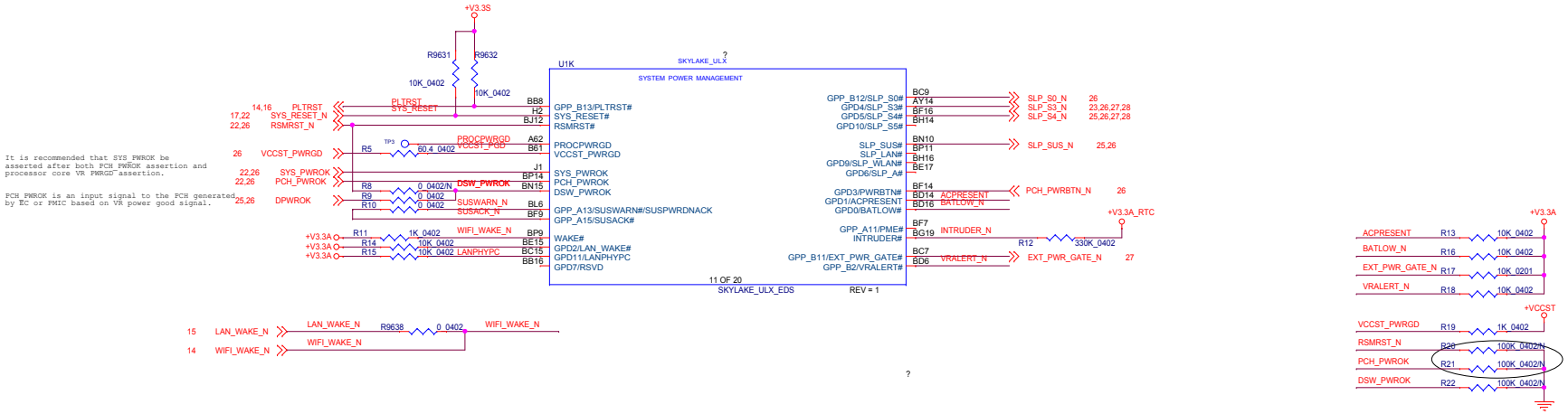


TPS650830 Timming diagram



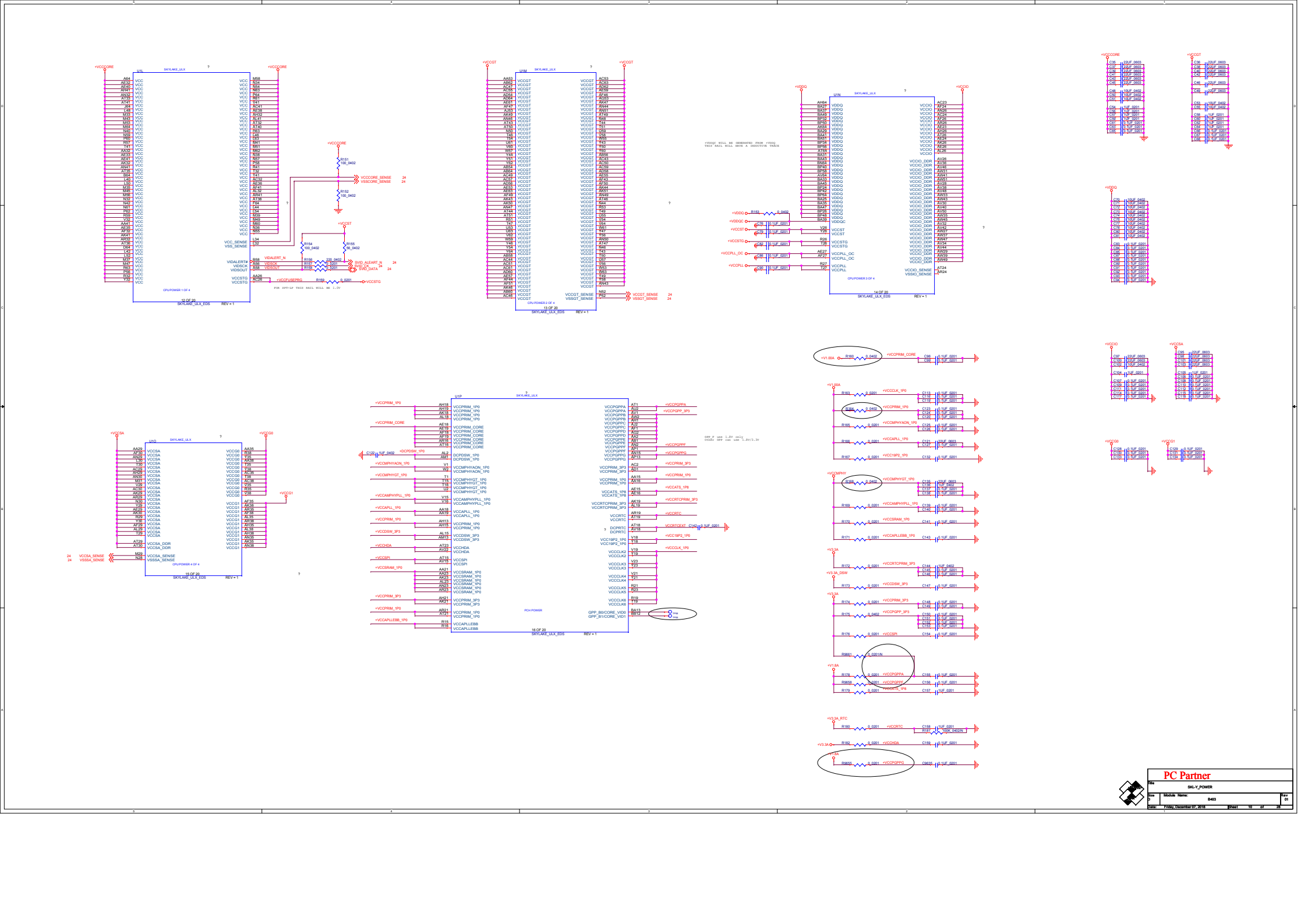
PC Partner

Title	Power Delivery & Sequence	
Size C	Module Name: B403	Rev 01
Date: Friday, December 07, 2018	Sheet 3 of 28	



PC Partner

Title	SKL-Y_DISPLAY/PWR_MANAGE	
Size C	Module Name: B403	Rev 01
Date: Friday, December 07, 2018	Sheet 4 of 28	


U1L
SKYLAKE_ULX
CPU POWER 1 OF 4
12 OF 20
SKYLAKE_ULX_EDS
REV = 1
U1M
CPU POWER 2 OF 4
13 OF 20
U1N
CPU POWER 3 OF 4
14 OF 20
U1O
CPU POWER 4 OF 4
15 OF 20
U1P
PCH POWER
16 OF 20
+VCCCORE
+VCCGT
+VDDQ
+VCCIO
+VCCSTG
+VCCPLL_OC
+VCCPLL
+VCCSA
+VCCIO1
+VCCGT0
+VCCGT1
VCCSA_SENSE
VSSSA_SENSE
VCCCORE_SENSE
VSSCORE_SENSE
VCCGT_SENSE
VSSGT_SENSE
VCC_SENSE
VSS_SENSE
VIDALERT_N
VIDSCK
VIDSOUT
SVID_ALEART_N
SVID_CLK
SVID_DATA
+VCCFUSEPRG
FOR 3YT-LF THIS RAIL WILL BE 1.0V
+VDDQC WILL BE GENERATED FROM +VDDQ
THIS RAIL WILL HAVE A INDUCTIVE TRACE
+V1.00A
+V1.05A
+V3.3A
+V3.3A_DSW
+V3.3A_RTC
+V1.8A
+VCCPRIM_CORE
+VCCPRIM_1P0
+VCCPRIM_3P3
+VCCPHYAON_1P0
+VCCPHYGT_1P0
+VCCAMPHYPLL_1P0
+VCCAPLL_1P0
+VCCSRAM_1P0
+VCCAPLLEBB_1P0
+VCCDSW_3P3
+VCCHDA
+VCCSPI
+VCCCLK_1P0
+VCCPGPPA
+VCCPGPP_3P3
+VCCPGPPF
+VCCPGPPG
+VCCATS_1P8
+VCCRTCPRIM_3P3
+VCCRTC
+VCC19P2_1P0
VCCRTCEXT
C142
3.3UF_0201
DCPDSW_1P0
C122
1UF_0402
OPP_F use 1.0V only
OCSEL OPP can use 1.80/3.3V
PC Partner
SKL-Y_POWER
Module Name:
B403
Rev
01
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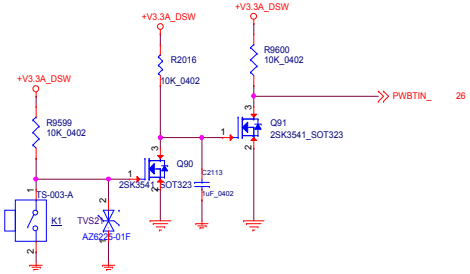
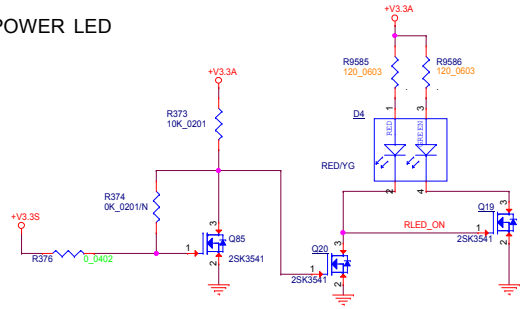
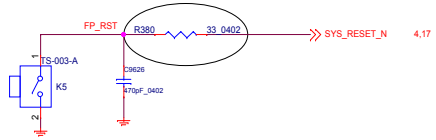
10
of
28

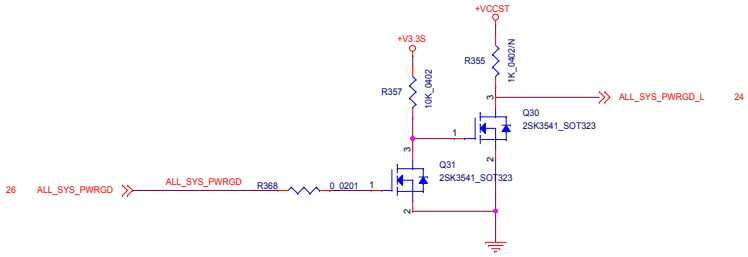
Power Button

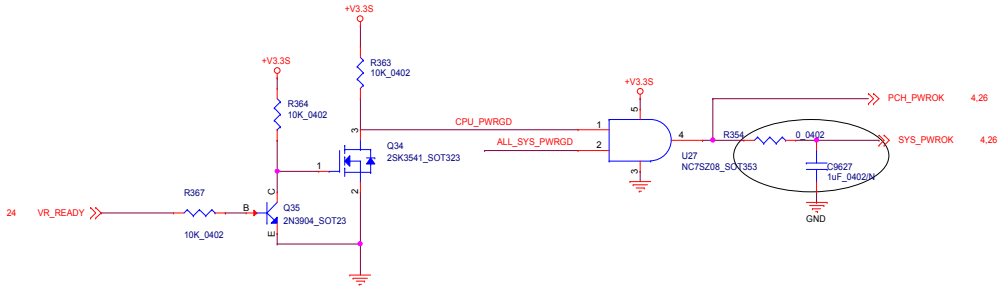


POWER LED









PC Partner

Title	BL PWR & power sequence	
Size C	Module Name: B403	Rev 01
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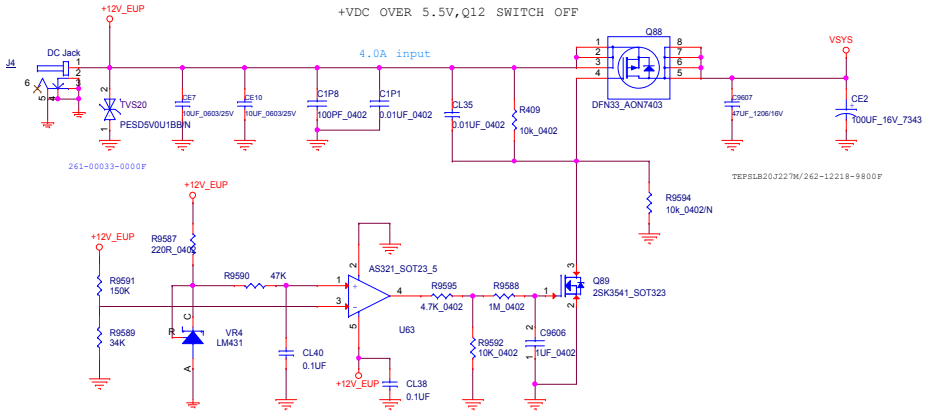
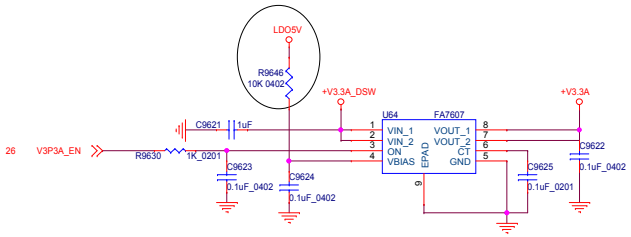
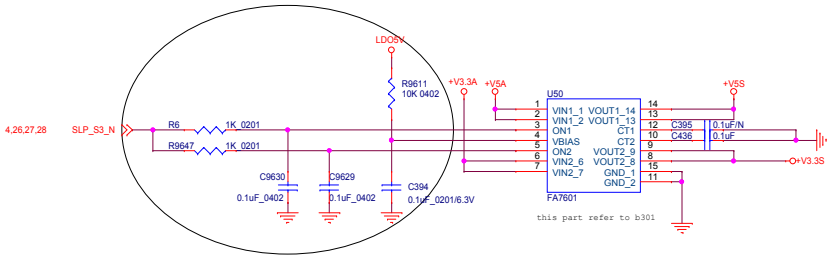
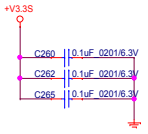
12V DC IN PART

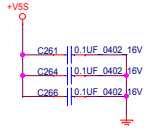
12V /1.5A DC IN

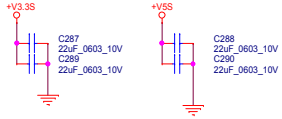












PC Partner

Title	SYSTEM POWER IN	
Size C	Module Name: B403	Rev 01
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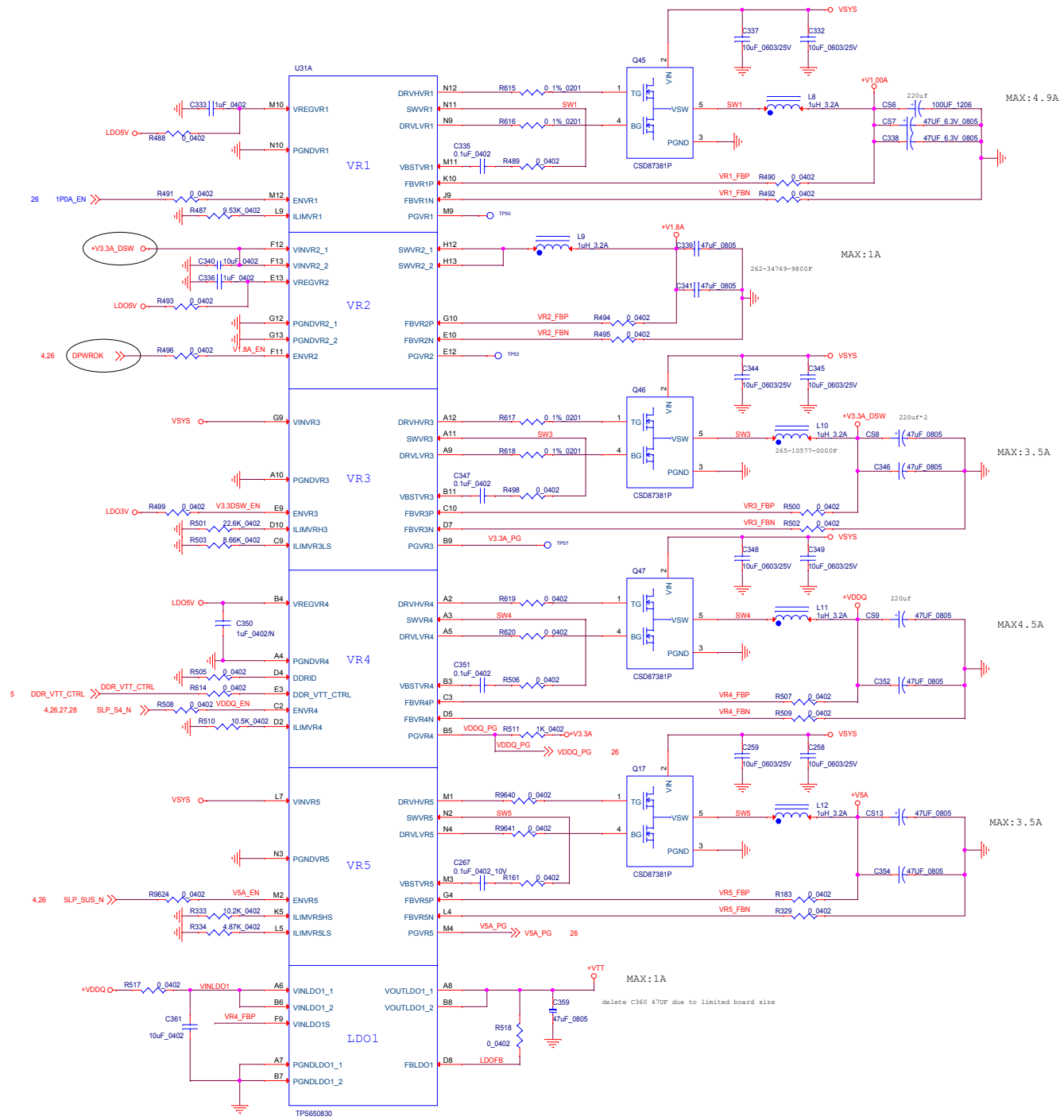
U31A
VR1
VR2
VR3
VR4
VR5
LDO1
TPS650830
VREGVR1
PGNDVR1
ENVR1
ILIMVR1
DRVHVR1
SWVR1
DRVLVR1
VBSTVR1
FBVR1P
FBVR1N
PGVR1
VINVR2_1
VINVR2_2
VREGVR2
PGNDVR2_1
PGNDVR2_2
ENVR2
SWVR2_1
SWVR2_2
FBVR2P
FBVR2N
PGVR2
VINVR3
PGNDVR3
ENVR3
ILIMVRH3
ILIMVR3LS
DRVHVR3
SWVR3
DRVLVR3
VBSTVR3
FBVR3P
FBVR3N
PGVR3
VREGVR4
PGNDVR4
DDRID
DDR_VTT_CTRL
ENVR4
ILIMVR4
DRVHVR4
SWVR4
DRVLVR4
VBSTVR4
FBVR4P
FBVR4N
PGVR4
VINVR5
PGNDVR5
ENVR5
ILIMVR5HS
ILIMVR5LS
DRVHVR5
SWVR5
DRVLVR5
VBSTVR5
FBVR5P
FBVR5N
PGVR5
VINLDO1_1
VINLDO1_2
VINLDO1S
PGNDLDO1_1
PGNDLDO1_2
VOUTLDO1_1
VOUTLDO1_2
FBLDO1
Q45
Q46
Q47
Q17
CSD87381P
VIN
TG
BG
VSW
PGND
VSYS
+V1.00A
+V1.8A
+V3.3A_DSW
+VDDQ
+V5A
+VTT
MAX:4.9A
MAX:1A
MAX:3.5A
MAX4.5A
MAX:3.5A
MAX:1A
1P0A_EN
DPWROK
V1.8A_EN
V3.3DSW_EN
V3A_PG
VDDQ_EN
V5A_EN
VDDQ_PG
SLP_S4_N
SLP_SUS_N
DDR_VTT_CTRL
LDO5V
LDO3V
VR1_FBP
VR1_FBN
VR2_FBP
VR2_FBN
VR3_FBP
VR3_FBN
VR4_FBP
VR4_FBN
VR5_FBP
VR5_FBN
LDOFB
delete C360 47UF due to limited board size
262-34769-9800F
265-10577-0000F
PC Partner
TPS650830_PMIC_1
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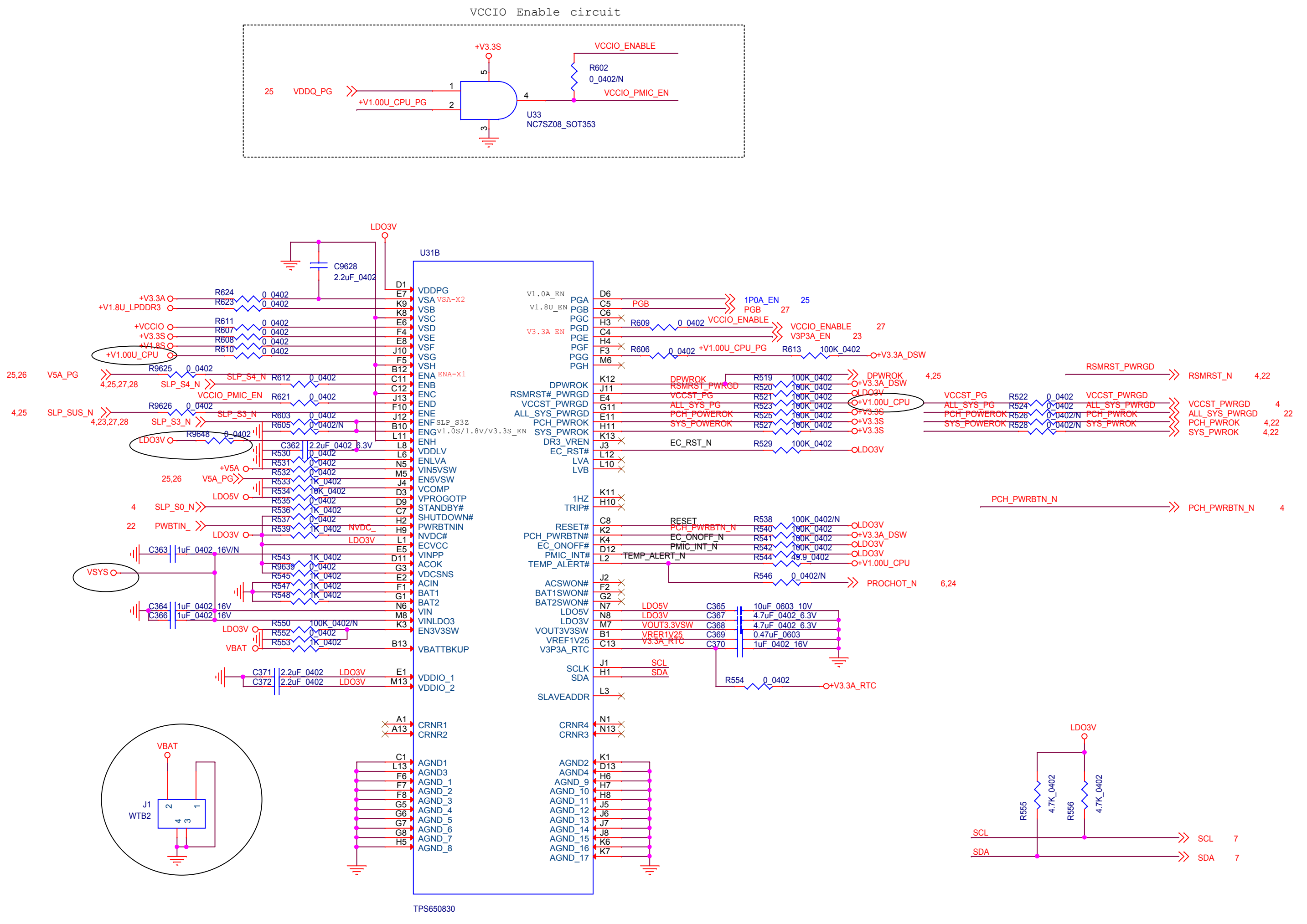

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Title: TPS650830_PMIC_2

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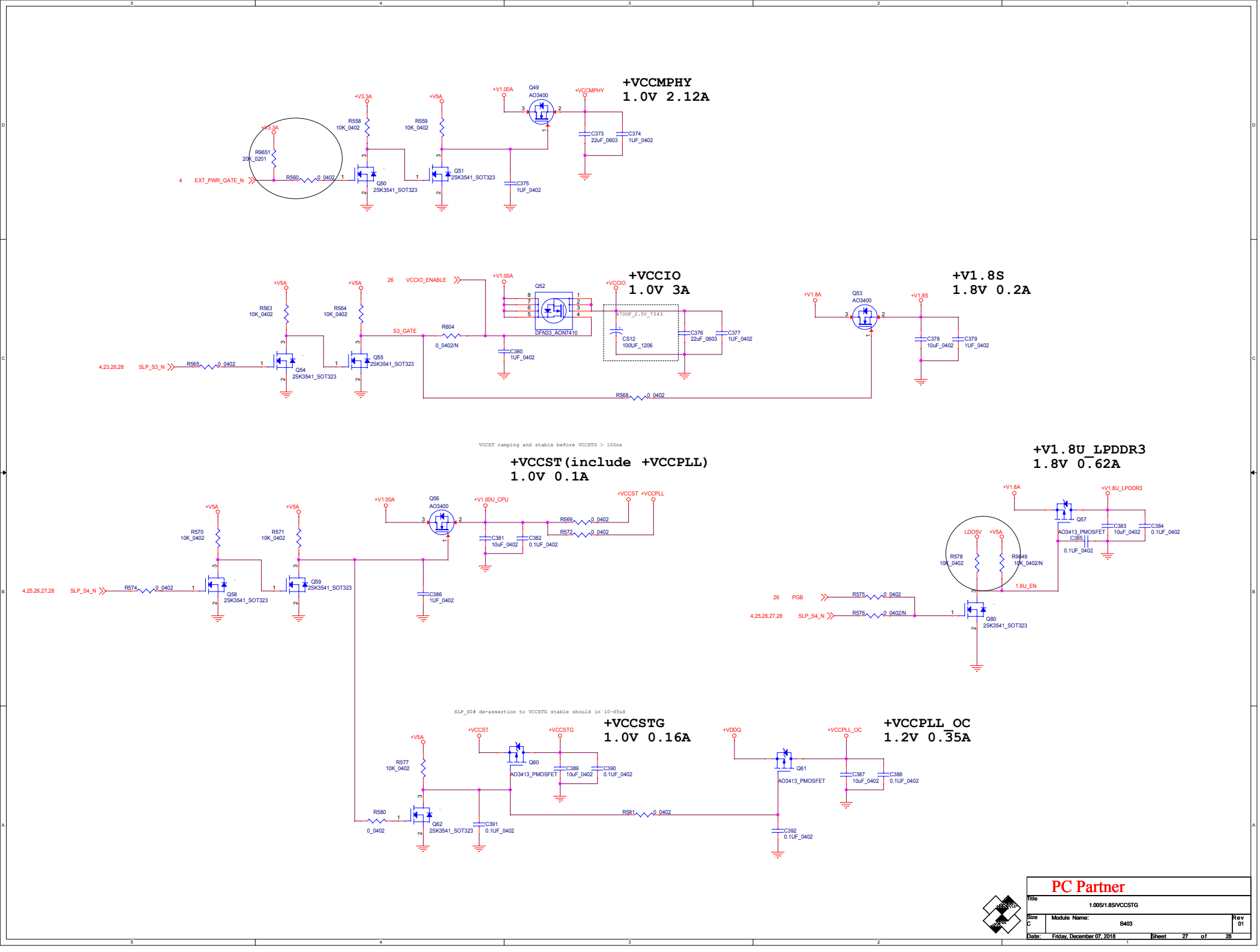

PC Partner

Title	1.00S/1.8S/VCCSTG	
Size C	Module Name: B403	Rev 01
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