

Revisions				
Rev	Description	Date	Design Engineer	Approved
A1	SJA1105Q Application Board	15-06-2017	Ayyappa/Jenish	Jothi

SJA1105Q Application Board

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Page Title: COVER PAGE

Size C

Document Number SCH-29837 PDF: SPF-29837_A1

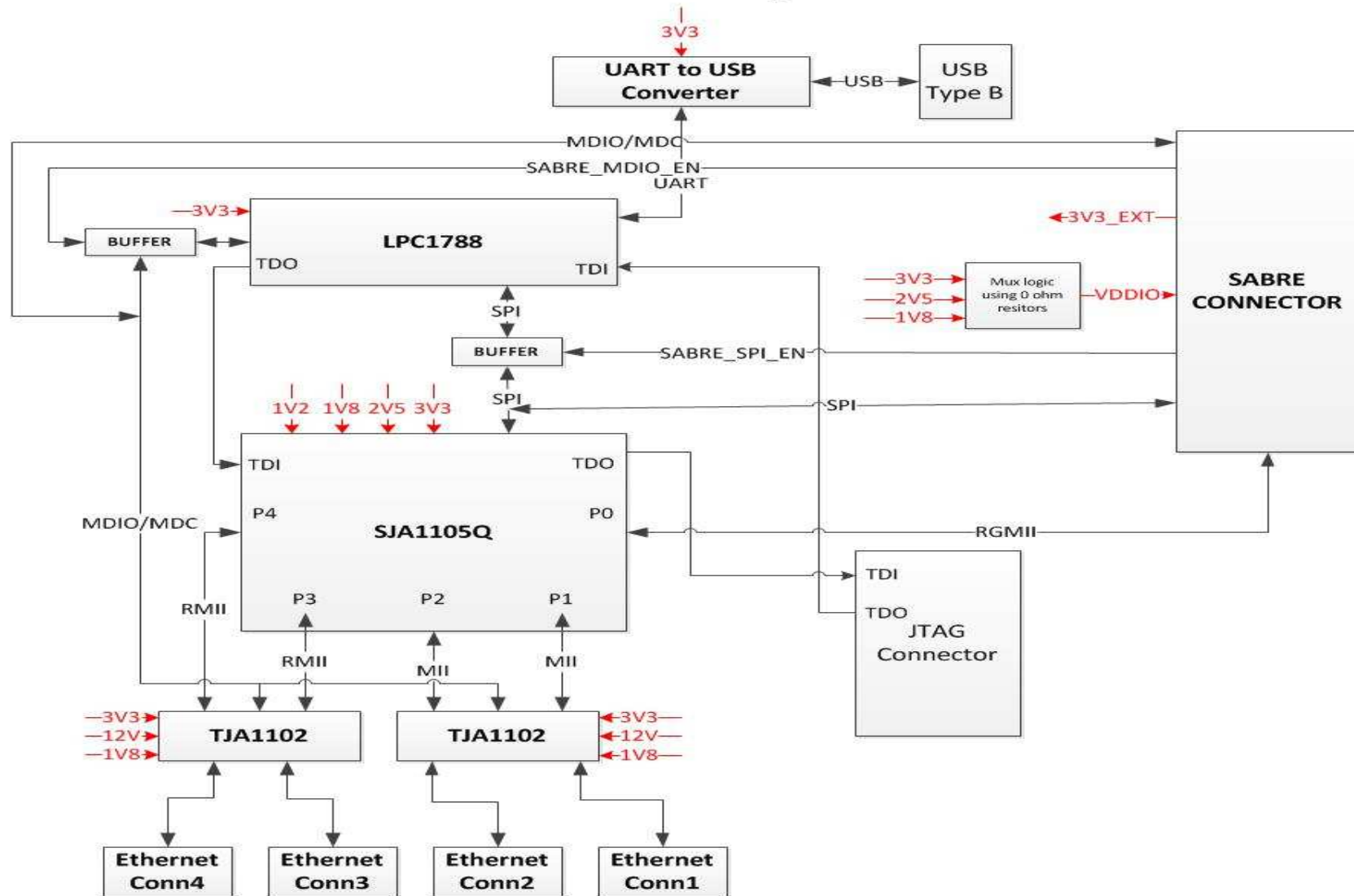
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BLOCK DIAGRAM

Detailed Block Diagram

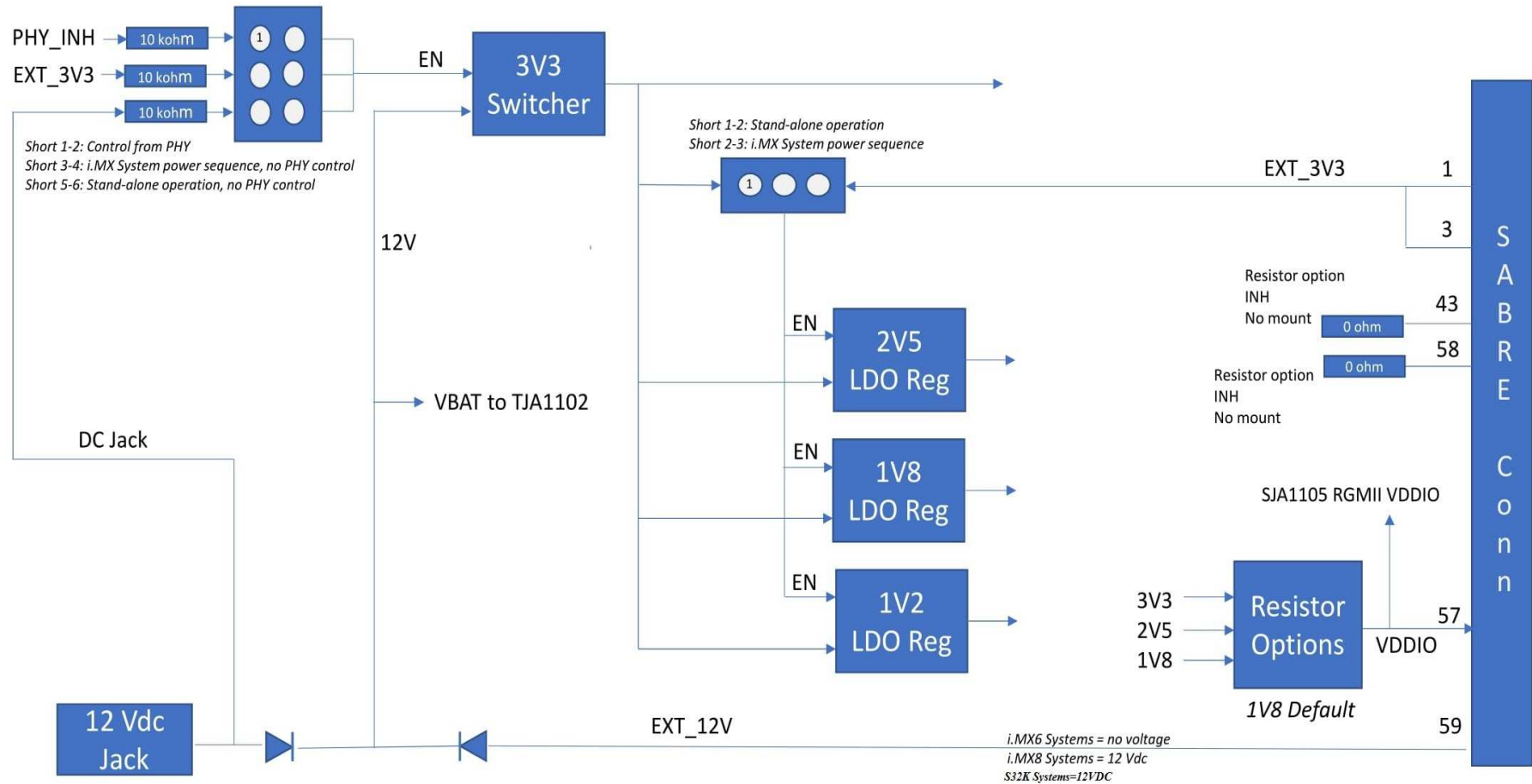


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POWER SCHEME

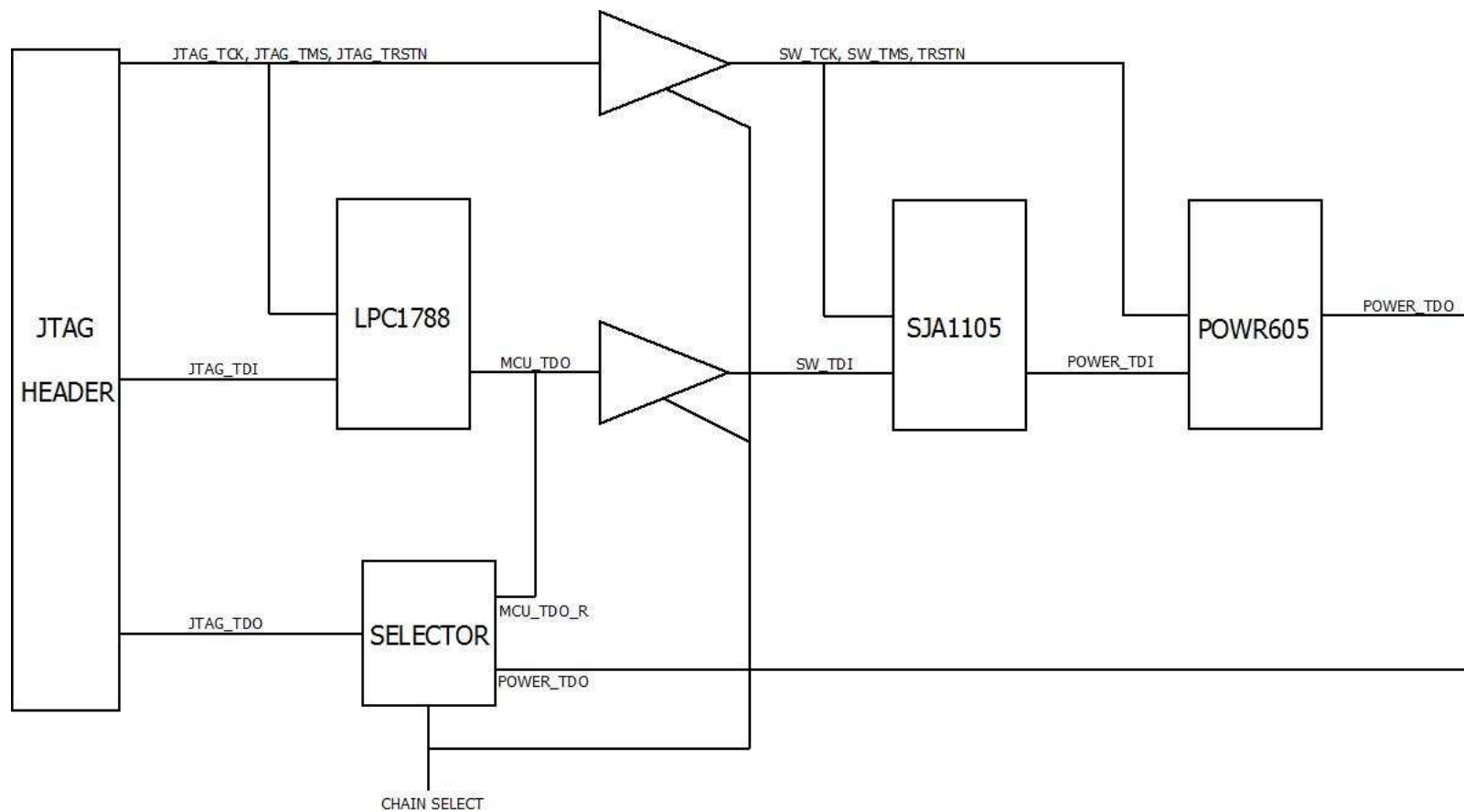
10 kohm is for current limiting if user installs more than 1 jumper shunt.



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JTAG SCHEME

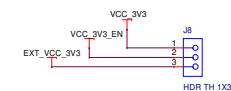
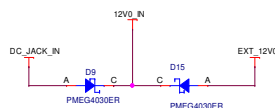
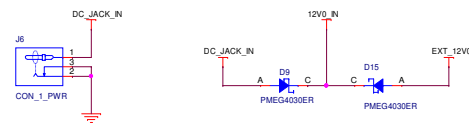


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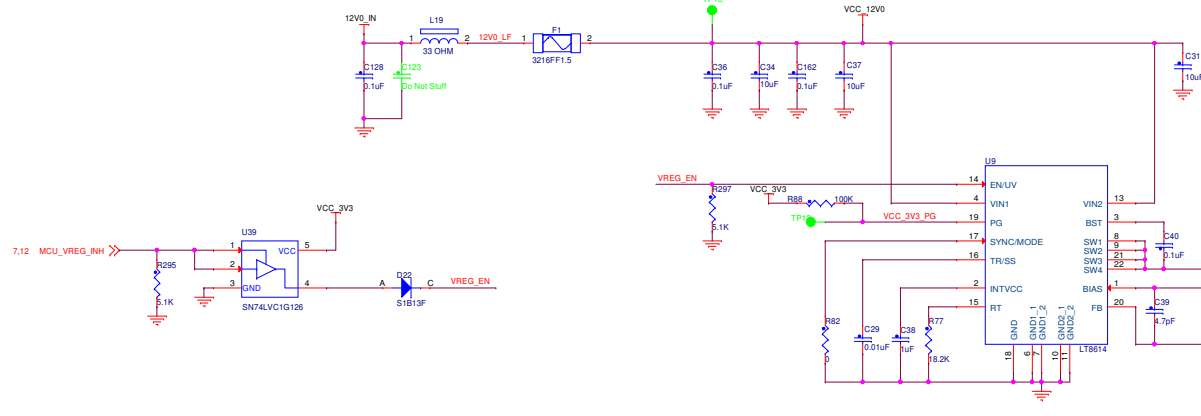
			
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POWER SUPPLY SECTION

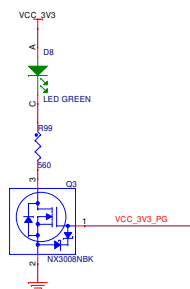
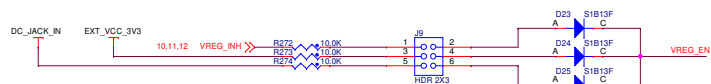
3V3 GENERATION



Note:
Short 1-2: Stand-alone operation
Short 2-3: i.MX System power sequence



Note:
Short 1-2: Control from PHY
Short 3-4: i.MX System power sequence, no PHY control
Short 5-6: Stand-alone operation, no PHY control

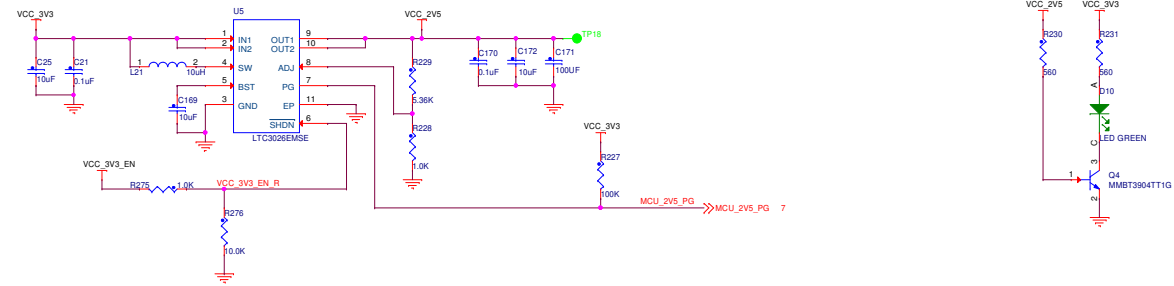


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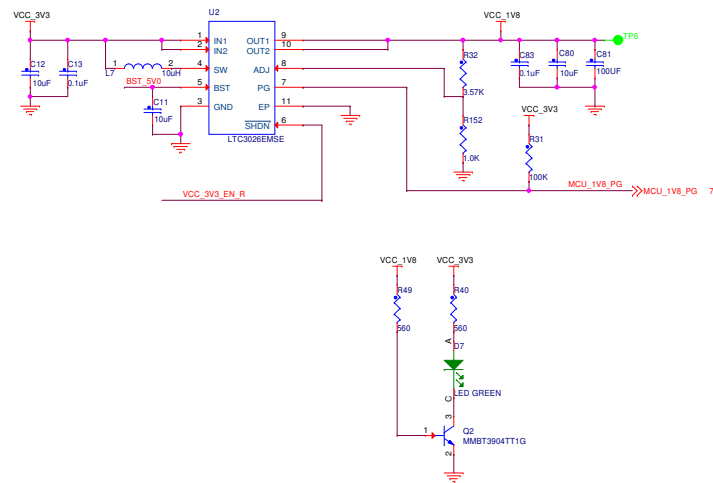
NXP			
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POWER SUPPLY SECTION

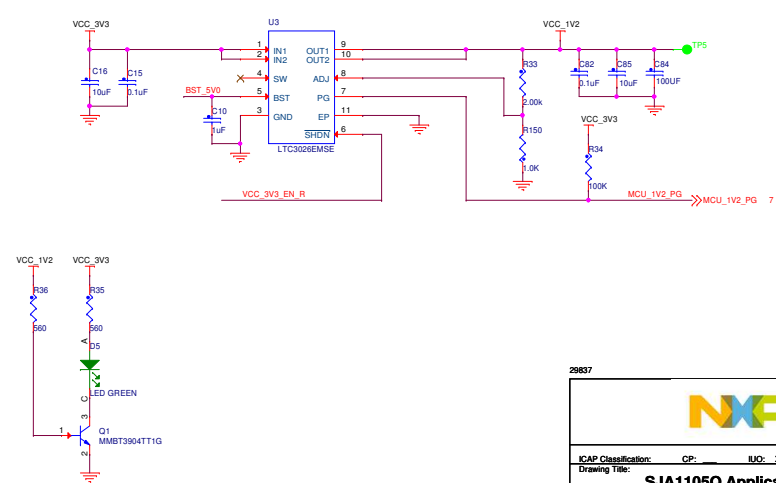
2V5 GENERATION



1V8 GENERATION



1V2 GENERATION



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				A
SJA1105Q Application Board				
PROCESSOR				
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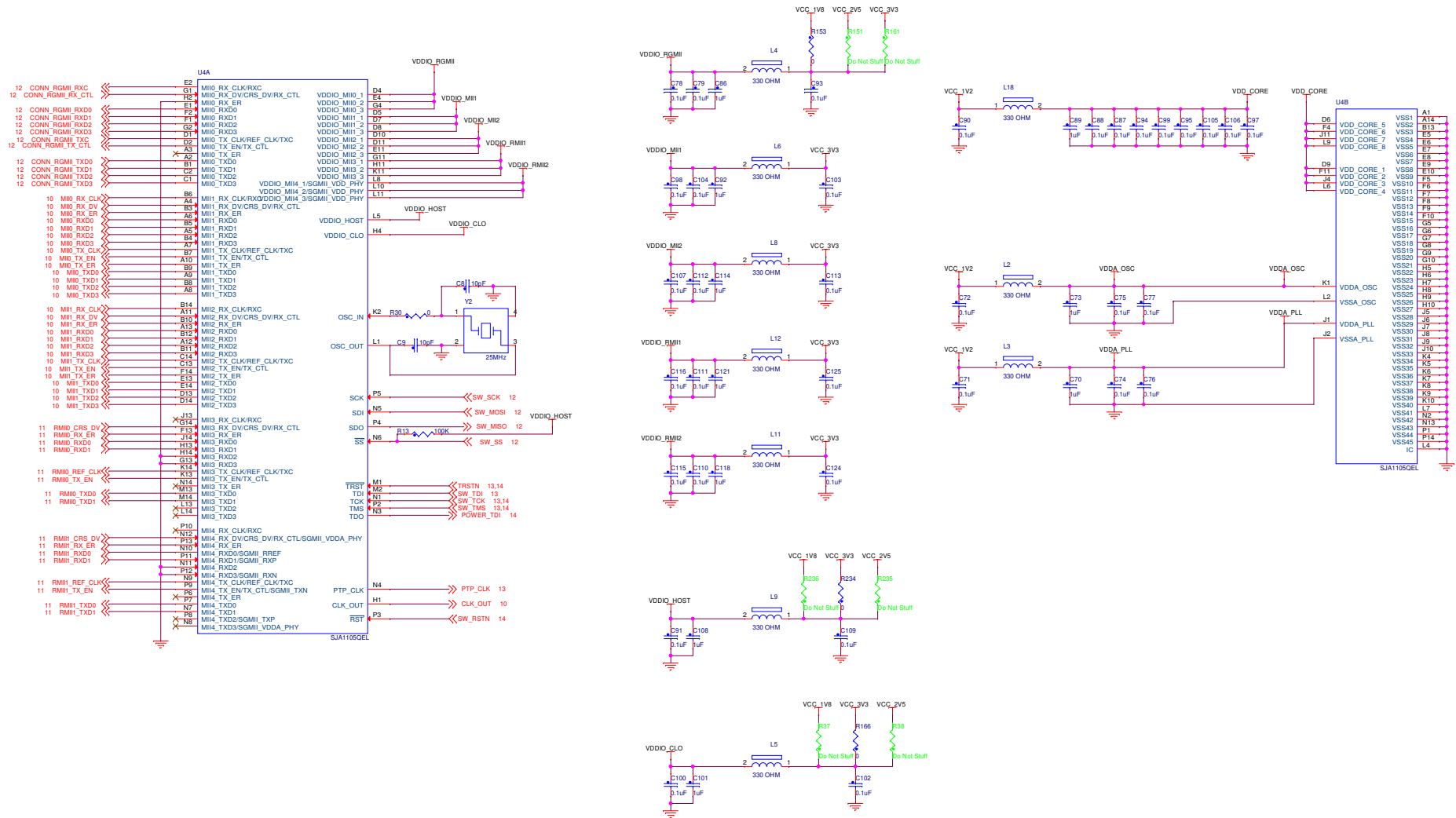
[illegible]

			
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ETHERNET SWITCH



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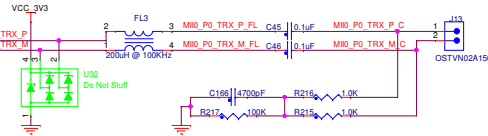
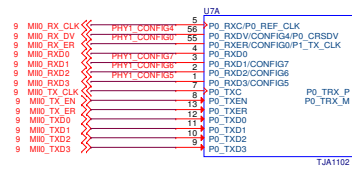
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ETHERNET PHY 1



MASTER_SLAVE_D15 : 011
P0 Master, P1 Master

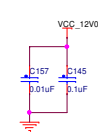
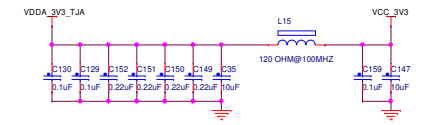
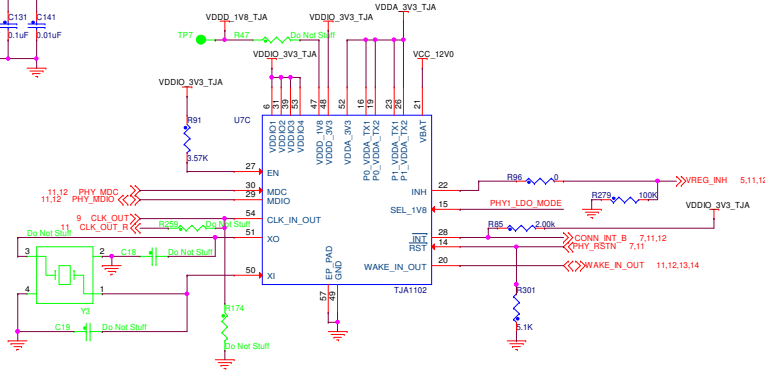
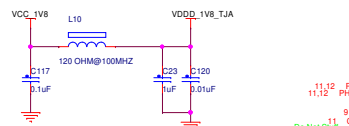
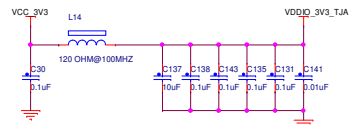
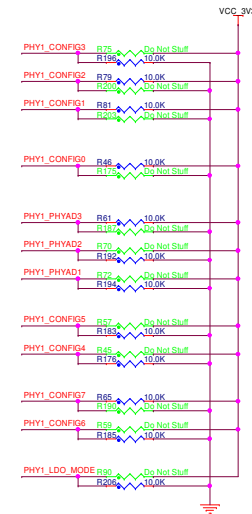
CONFIG : 1
Autonomous Operation

PHYAD[3:1] : 100
PHY ADDRESS:
P0 : 0x8
P1 : 0x9

CONFIG [5:4] : 00
MT Mode

CONFIG [7:6] : 10
20MHz EXTERNAL CLOCK AT CLK_IN_OUT

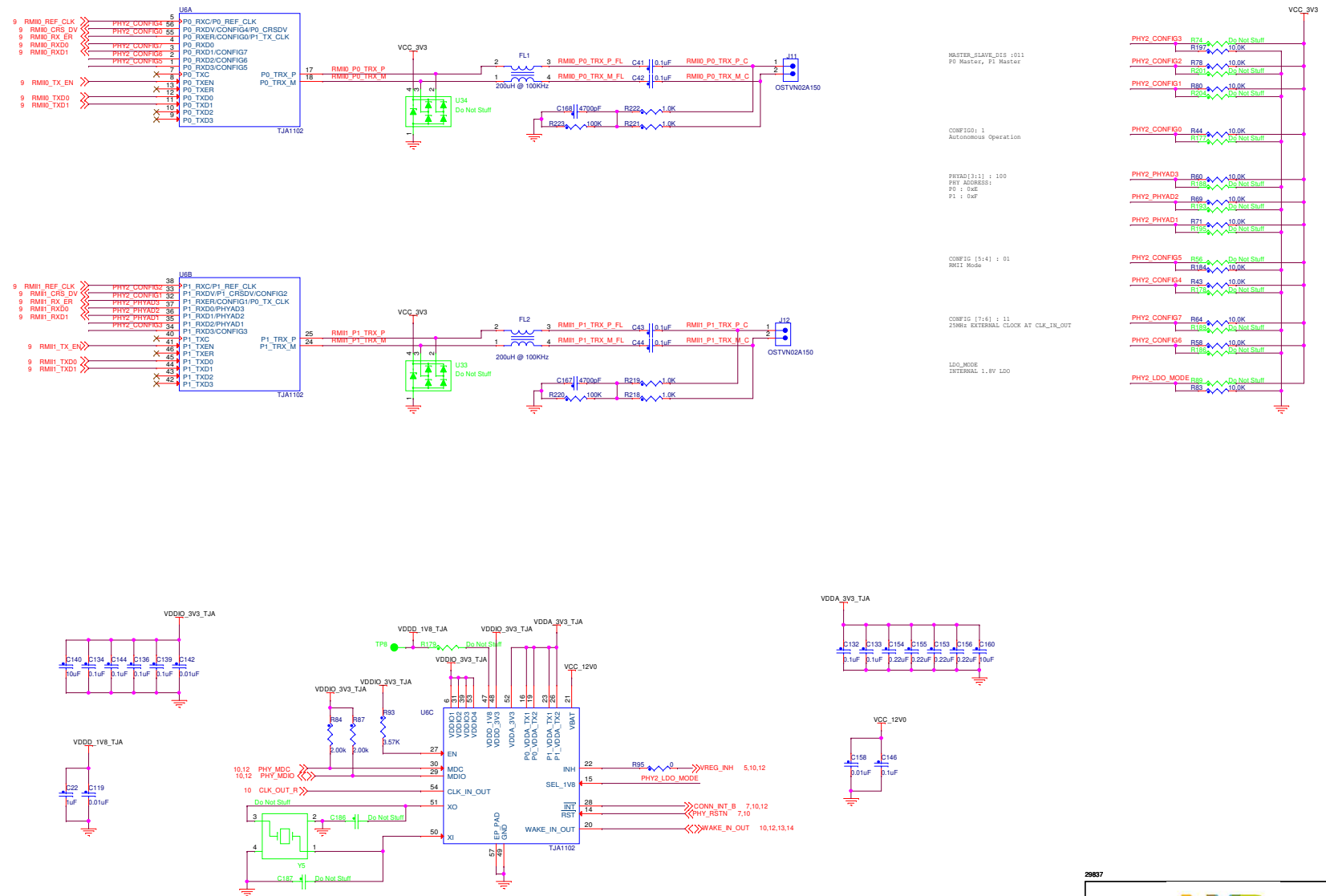
LDO_MODE :
INTERNAL 1.8V LDO



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ETHERNET PHY 2



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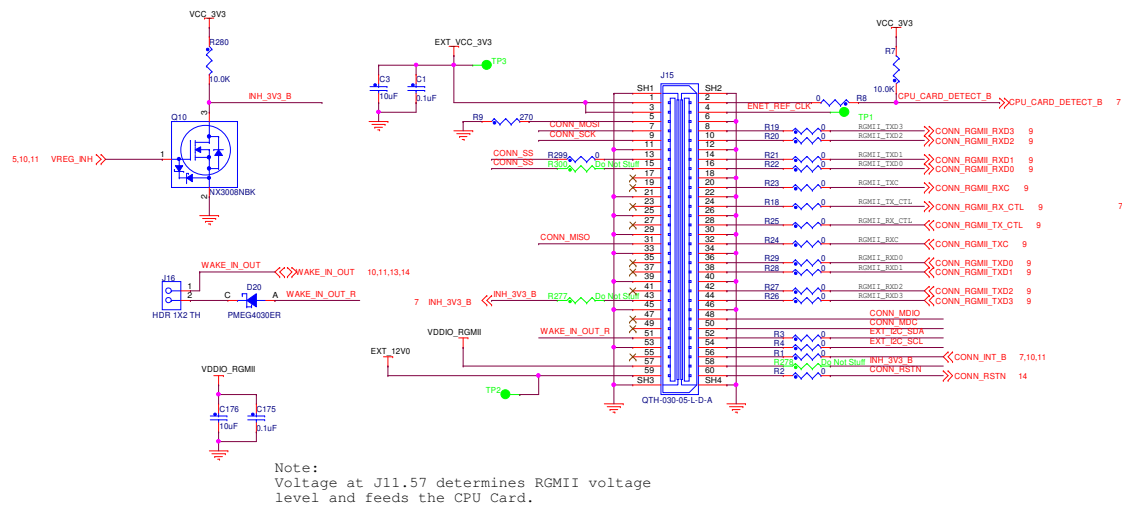
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Page Title: ETHERNET PHY 2

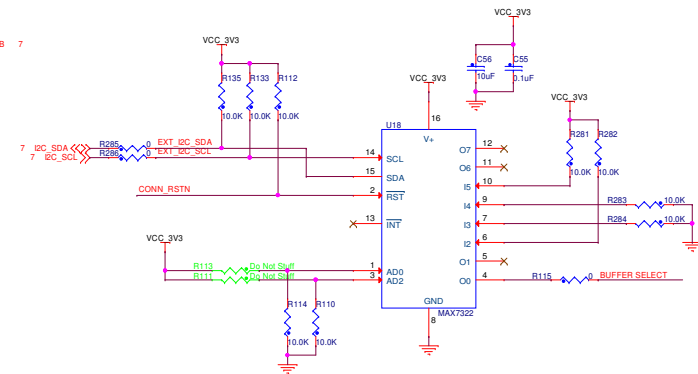
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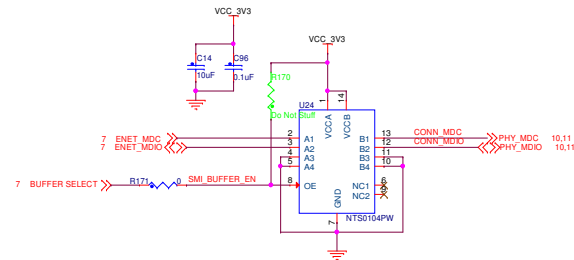
SABRE CONNECTOR



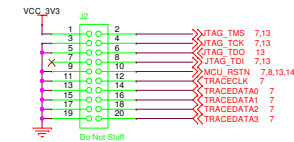
I2C TO GPIO EXPANDER



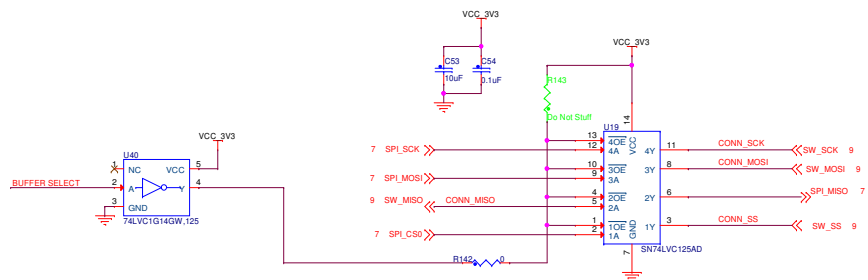
SMI BUFFER



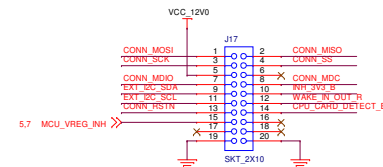
CORTEX DEBUG & ETM CONNECTOR



SPI BUFFER

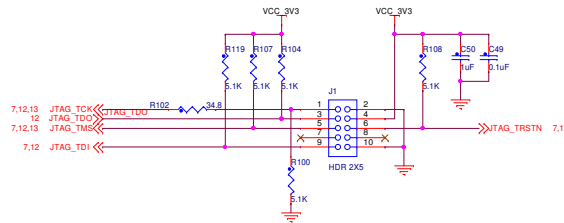


EXTENSION CONNECTOR

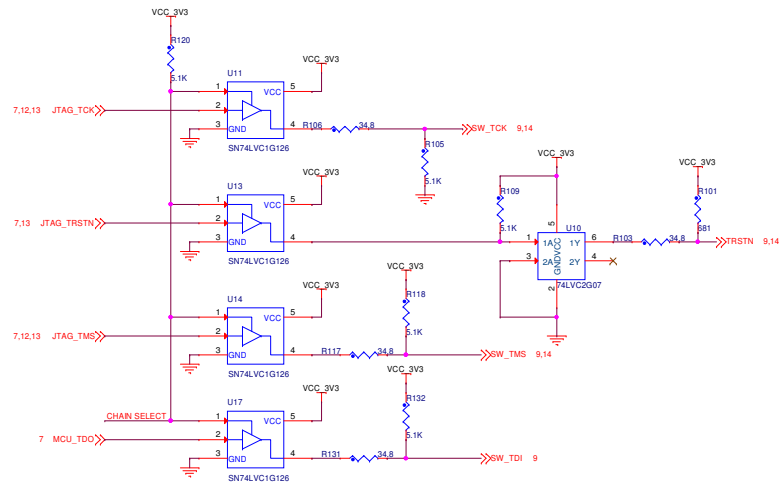


JTAG

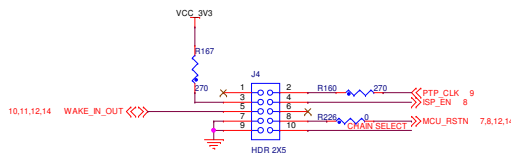
JTAG CONNECTOR



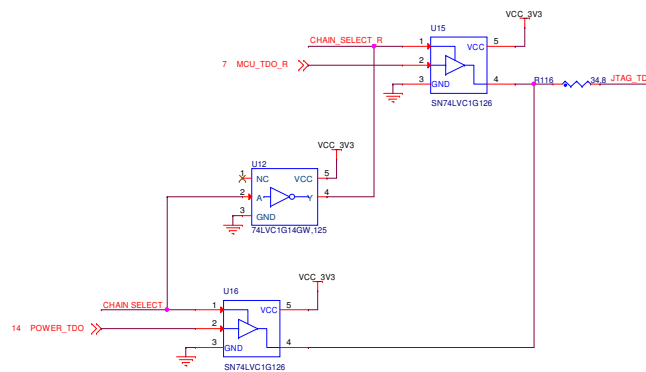
BUFFER WITH DISABLE



JUMPER OPTIONS



JTAG SELECTOR



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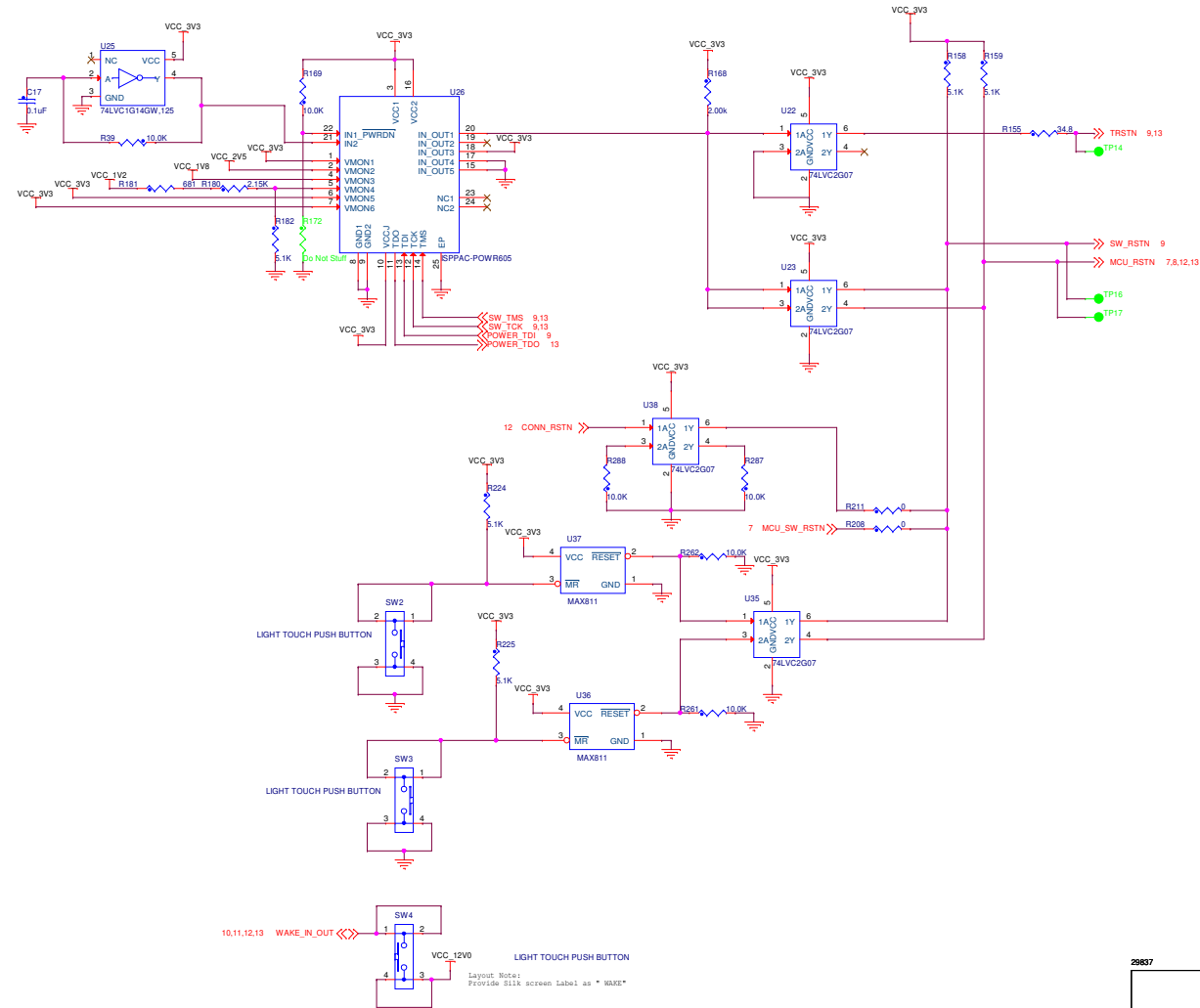
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RESET SCHEME

MONITOR & POWER ON RESET

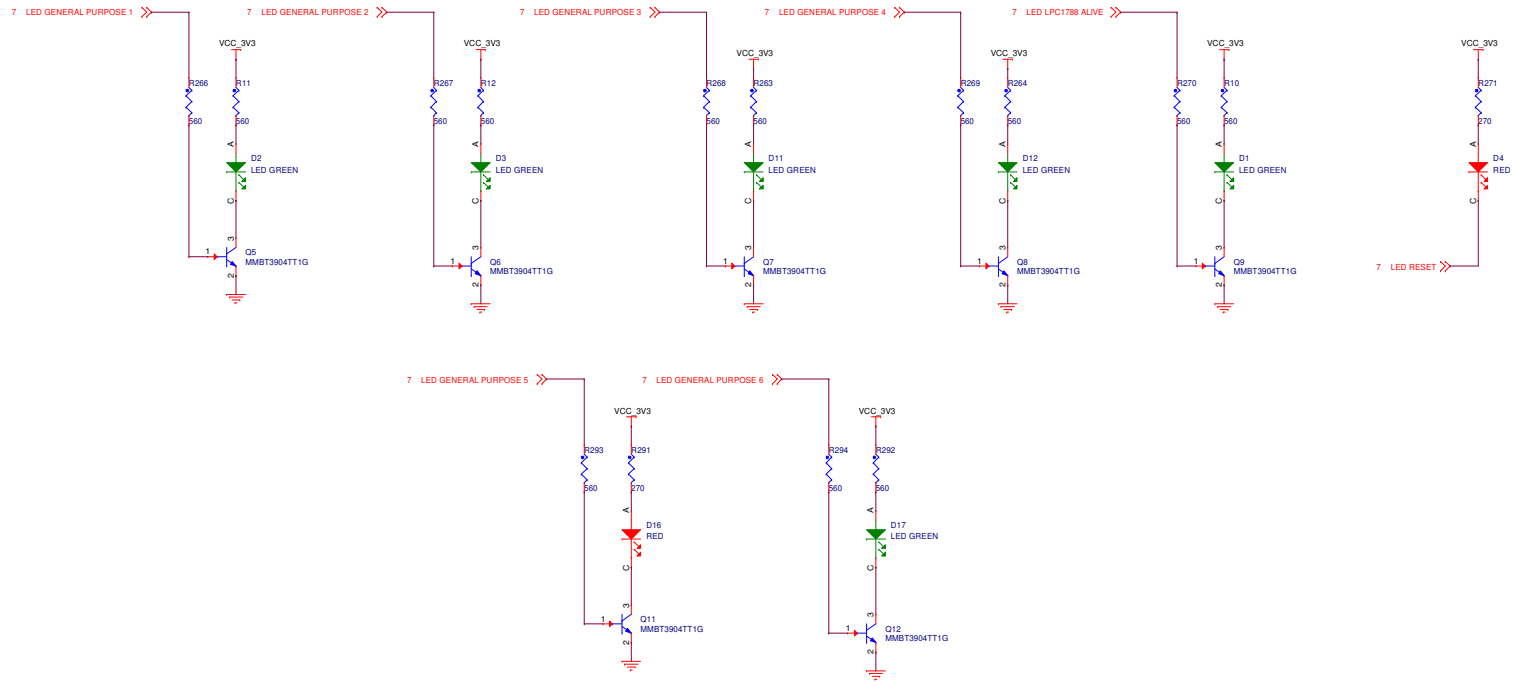


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MISCELLANEOUS

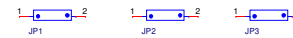
LED'S



PLATED MOUNTING HOLE



DEFAULT JUMPER



Default Option
 J8 : 1-2
 J9 : 5-6
 J4 : 3-4

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