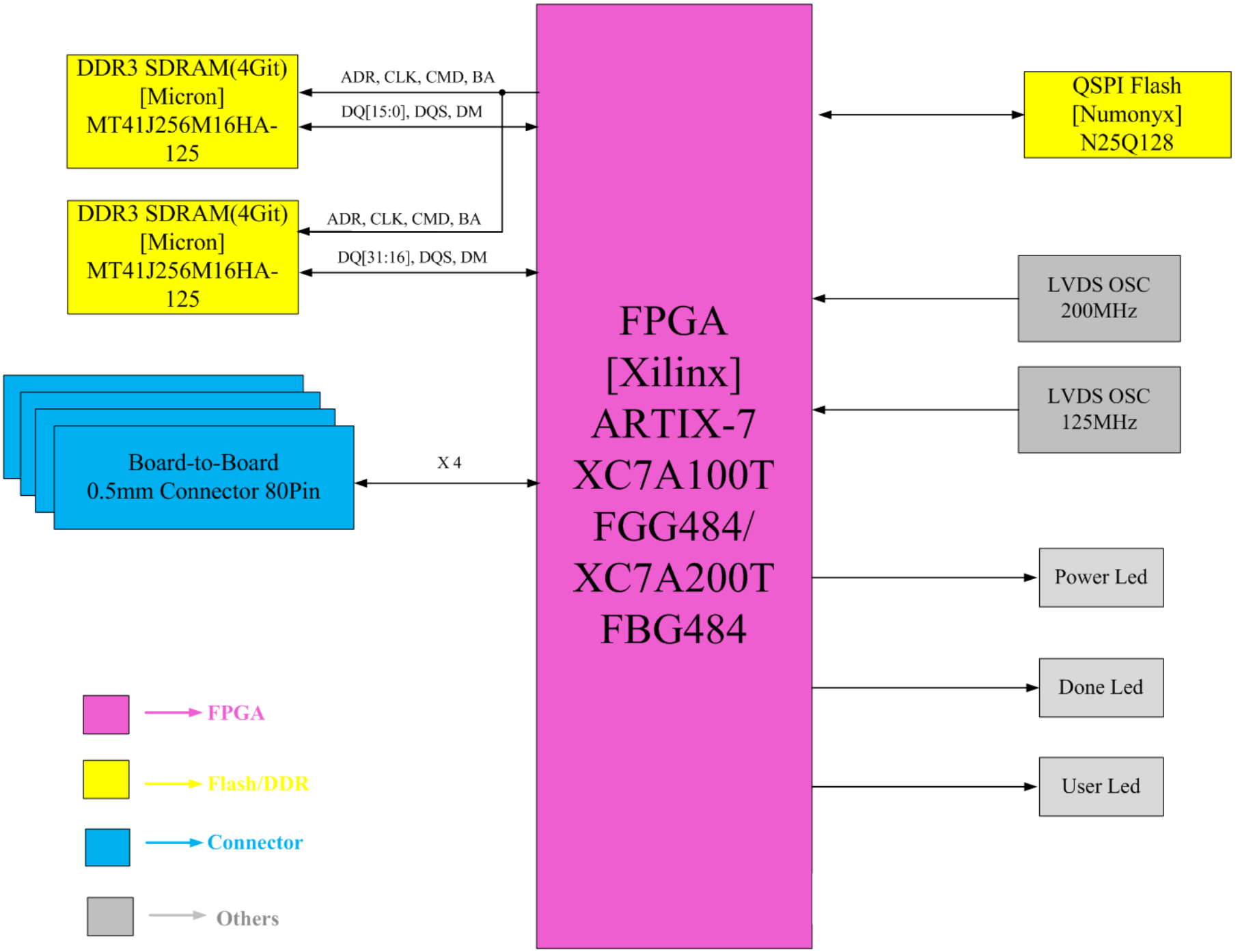

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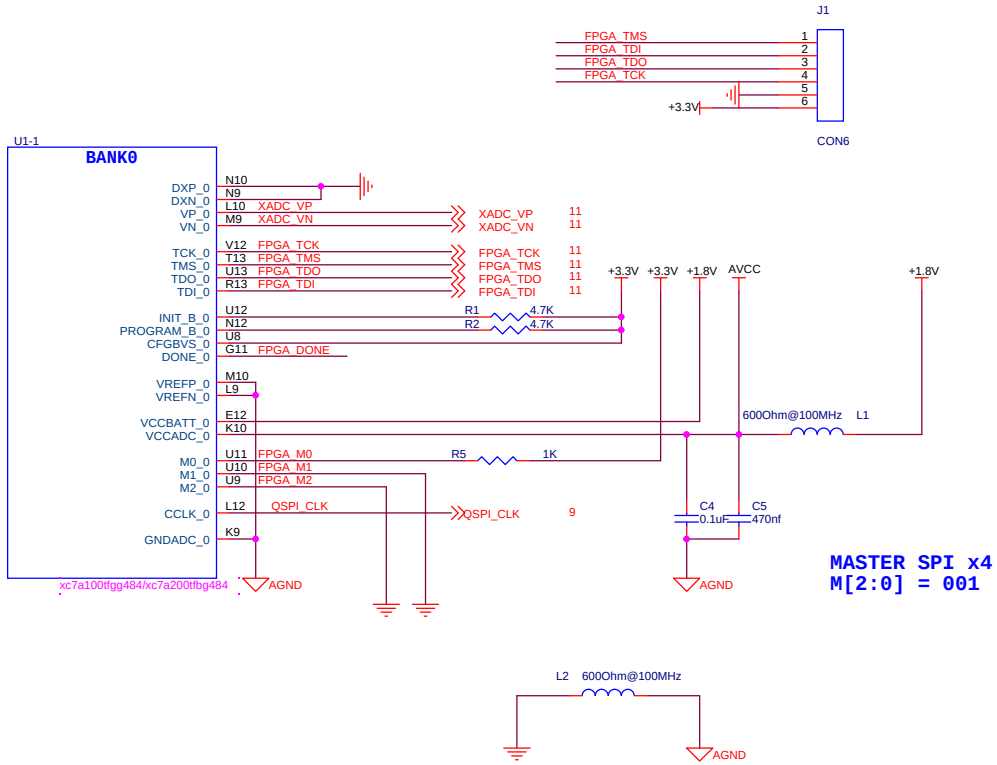
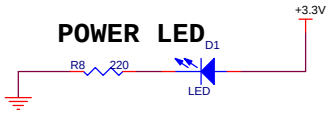
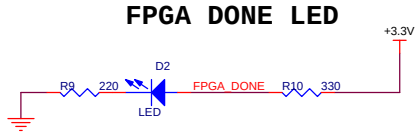
Title	PAGE01 BLOCK DIAGRAM
Size	Document Number: AC7A200 Schematic — Rev: 1.0
Date:	Tuesday, March 26, 2019 — Sheet 1 of 11







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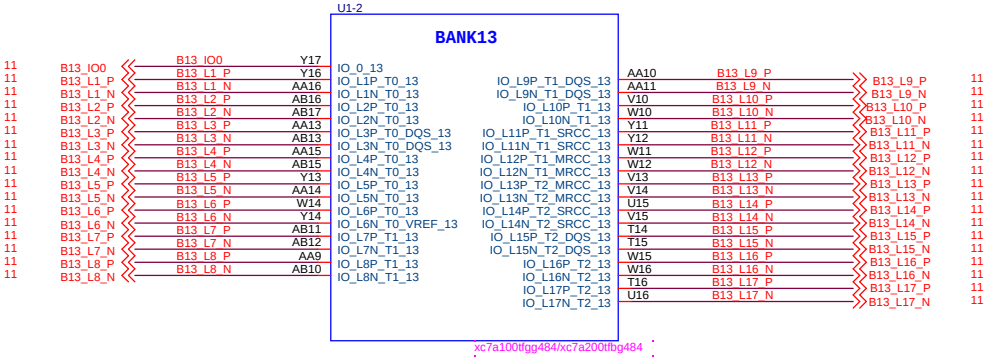
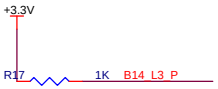
Title: PAGE02 FPGA BANK0

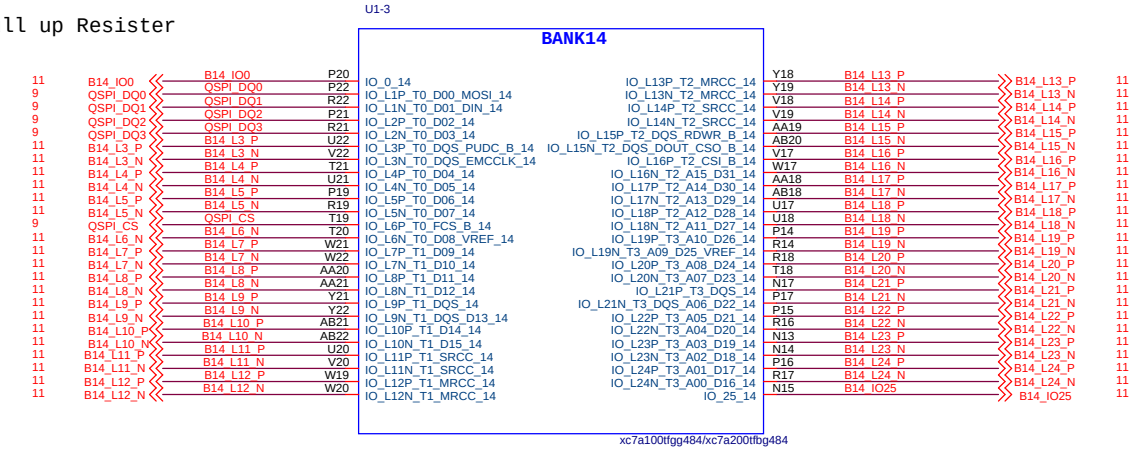
Size | Document Number: AC7A200 Schematic | Rev: 1.0

Date: Tuesday, February 26, 2019 | Sheet 2 of 11



PUDC_B=1: Deactive internal Pull up Resister





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Title: PAGE03 FPGA BANK13/14

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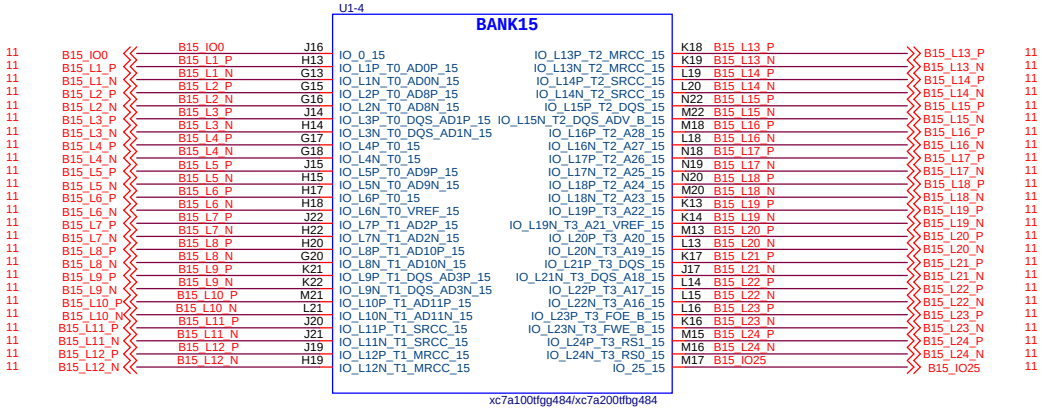
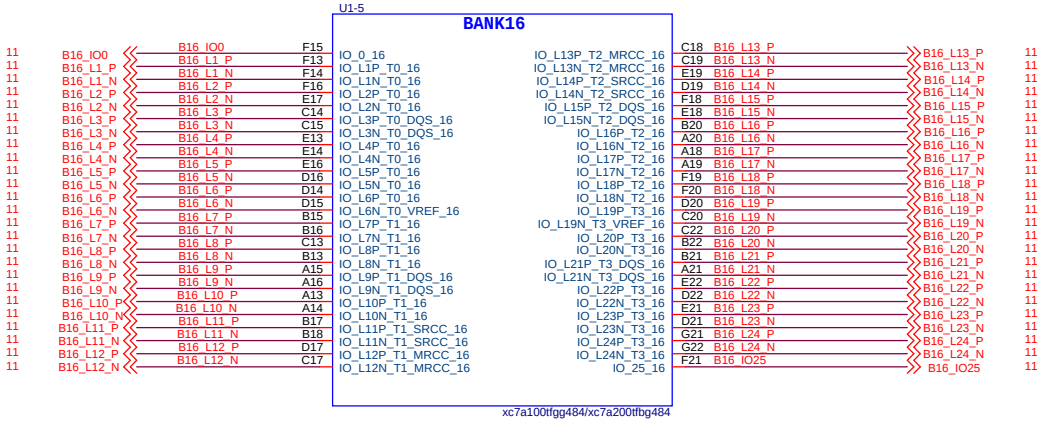
Date: Sunday, April 28, 2019 | Sheet 3 of 11





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Title: PAGE04 FPGA BANK15/16

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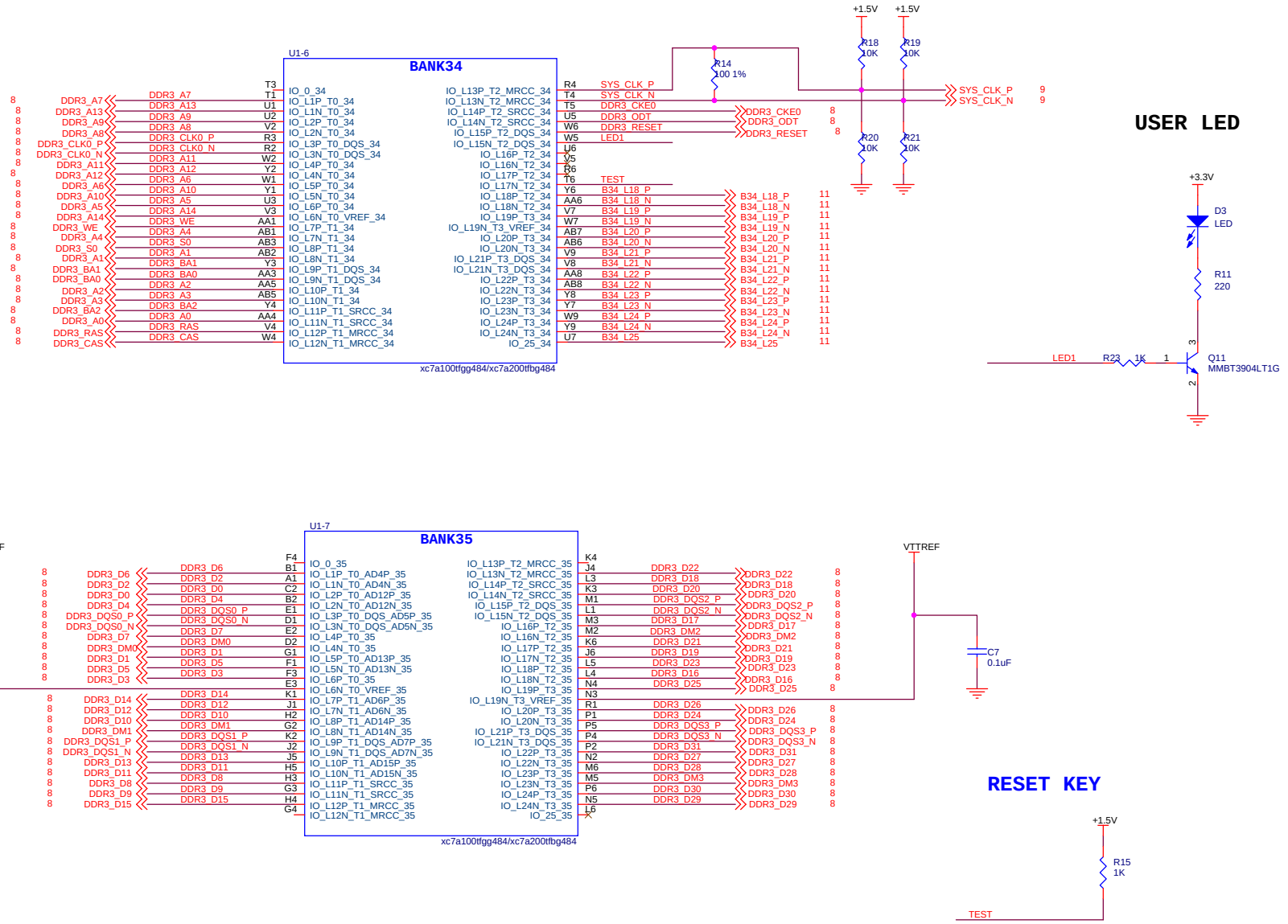
Date: Tuesday, February 26, 2019 | Sheet 4 of 11



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Title	PAGE05 FPGA BANK34/35
Size	Document Number: AC7A200 Schematic
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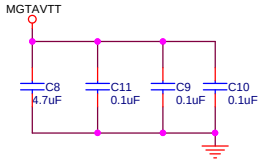
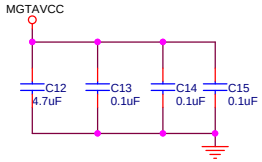
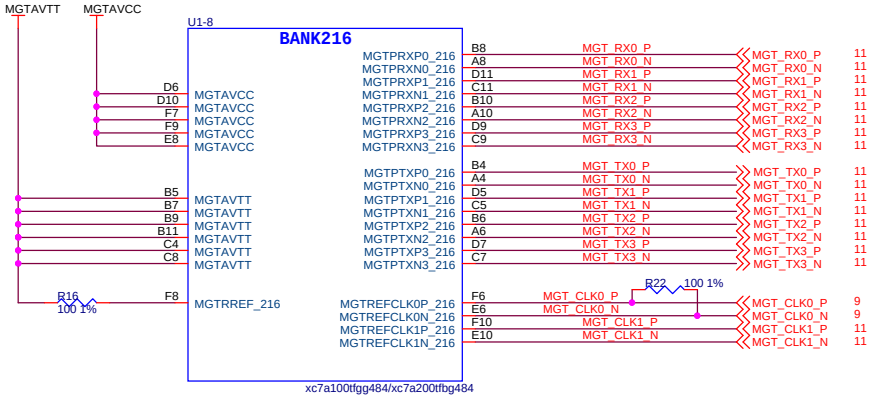
Date:	Tuesday, February 26, 2019
Sheet	5 of 11

MGTAVTT 4.7uF(1) 0.1uF(2)



MGTAVCC 4.7uF(1) 0.1uF(2)





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Title	PAGE06 FPGA BAN216	
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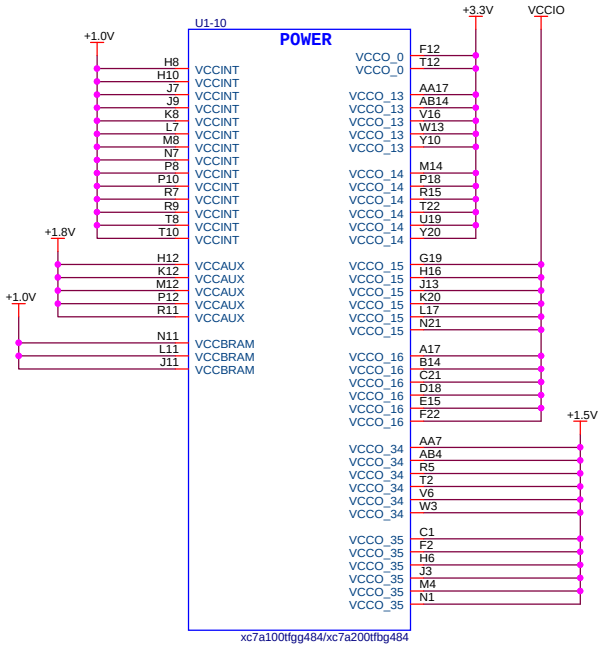

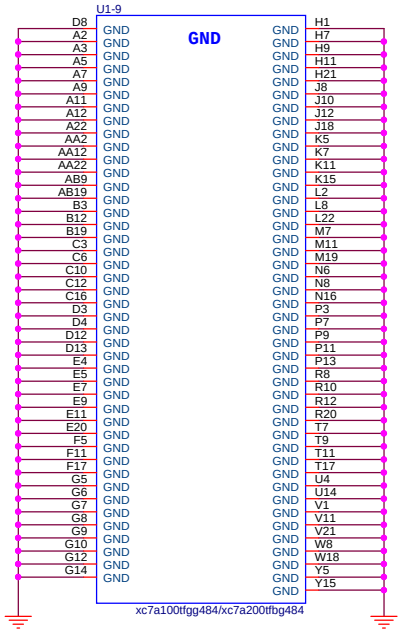

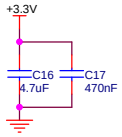

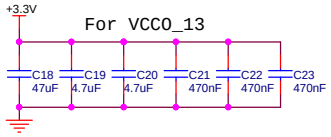

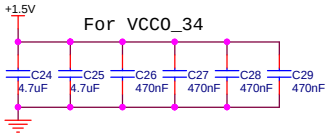

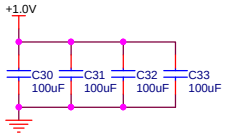

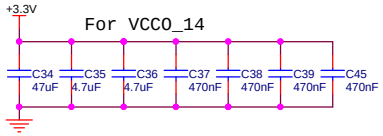

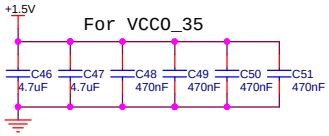

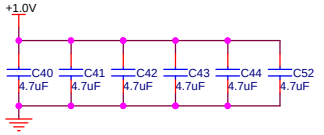

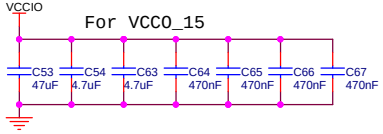

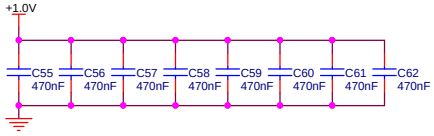

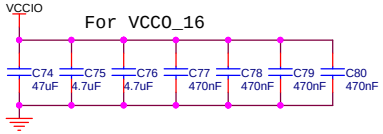

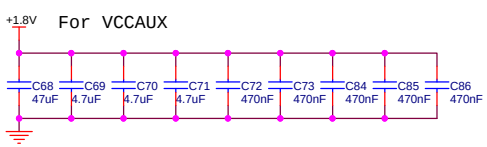

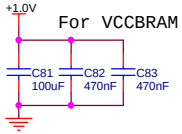

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Title: PAGE07 FPGA Power		
Size	Document Number: AC7A200 Schematic	Rev: 1.0
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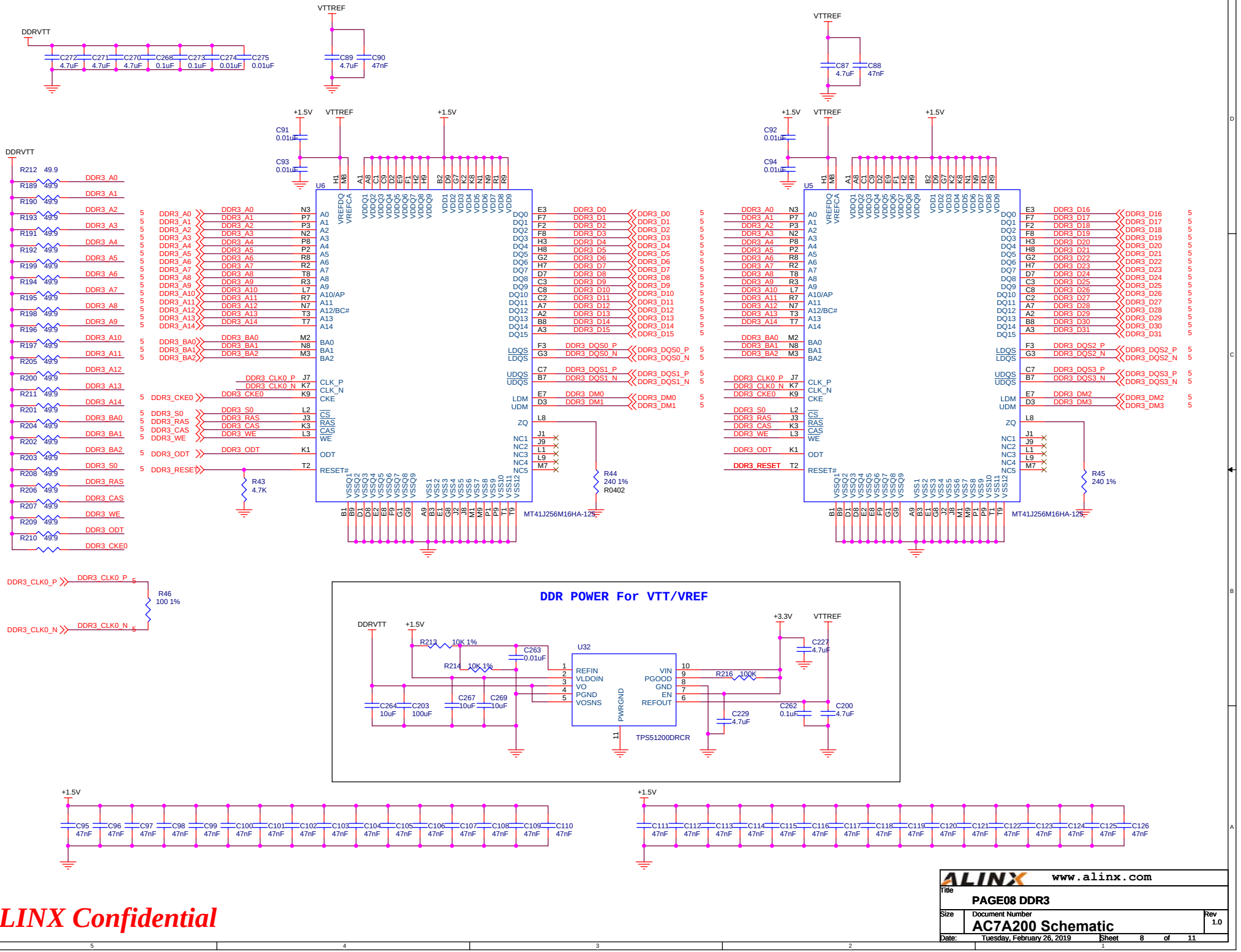

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Title: PAGE08 DDR3

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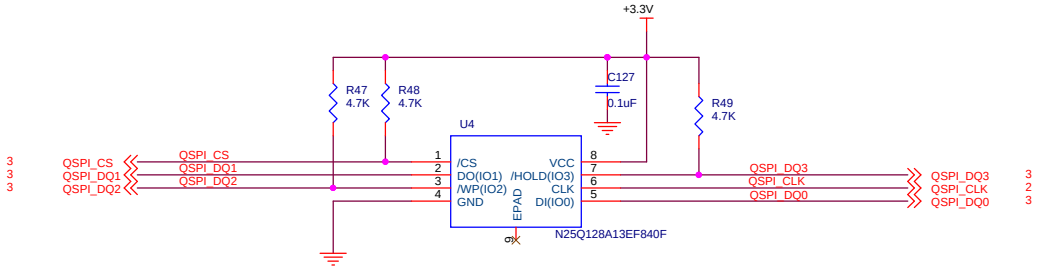
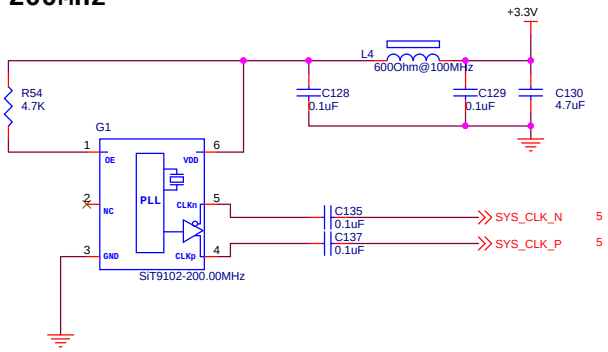
FPGA CONFIG SPI



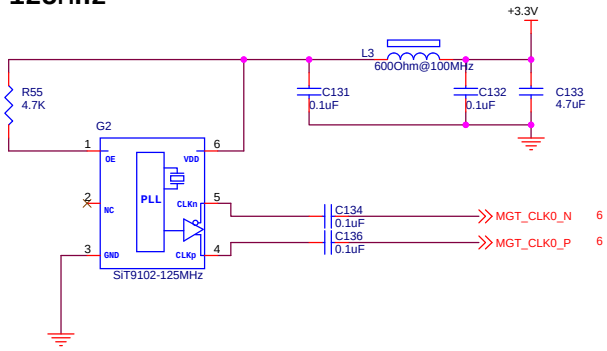
SYSTEM CLOCK

200MHz



GTP CLOCK

125MHz



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Title	PAGE09 CLOCK&FLASH
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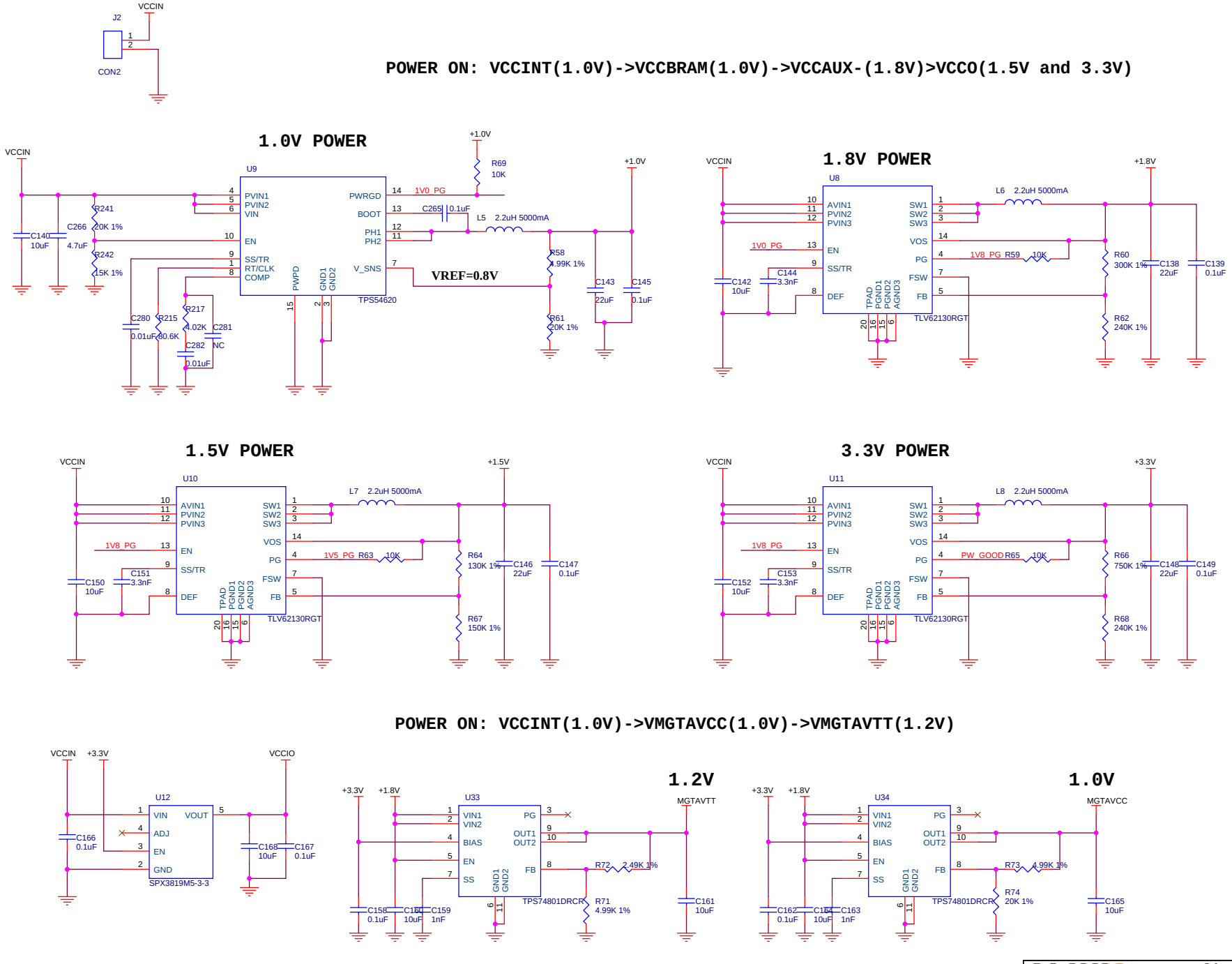
POWER ON: VCCINT(1.0V)->VCCBRAM(1.0V)->VCCAUX-(1.8V)>VCCO(1.5V and 3.3V)
1.0V POWER
1.8V POWER
1.5V POWER
3.3V POWER
POWER ON: VCCINT(1.0V)->VMGTAVCC(1.0V)->VMGTAVTT(1.2V)
1.2V
1.0V
VCCIN
VCCIO
+1.0V
+1.8V
+1.5V
+3.3V
J2
CON2
U9
U8
U10
U11
U12
U33
U34
TPS54620
TLV62130RGT
SPX3819M5-3-3
TPS74801DRCR
VREF=0.8V
1V0_PG
1V8_PG
1V5_PG
PW_GOOD
MGTAVTT
MGTAVCC
L5 2.2uH 5000mA
L6 2.2uH 5000mA
L7 2.2uH 5000mA
L8 2.2uH 5000mA
R69 10K
R58 4.99K 1%
R61 20K 1%
R241 20K 1%
R242 15K 1%
R215 30.6K
R217 4.02K
R59 10K
R60 300K 1%
R62 240K 1%
R63 10K
R64 130K 1%
R67 150K 1%
R65 10K
R66 750K 1%
R68 240K 1%
R72 2.49K 1%
R71 4.99K 1%
R73 4.99K 1%
R74 20K 1%
C265 0.1uF
C266 4.7uF
C280 0.01uF
C281 NC
C282 0.01uF
C140 10uF
C142 10uF
C144 3.3nF
C143 22uF
C145 0.1uF
C138 22uF
C139 0.1uF
C150 10uF
C151 3.3nF
C146 22uF
C147 0.1uF
C152 10uF
C153 3.3nF
C148 22uF
C149 0.1uF
C166 0.1uF
C168 10uF
C167 0.1uF
C158 0.1uF
C160 10uF
C159 1nF
C161 10uF
C162 0.1uF
C164 10uF
C163 1nF
C165 10uF
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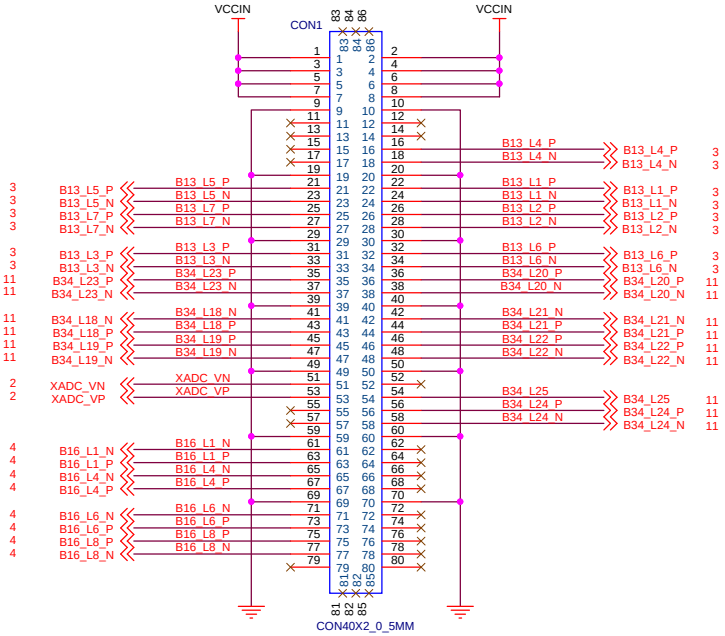
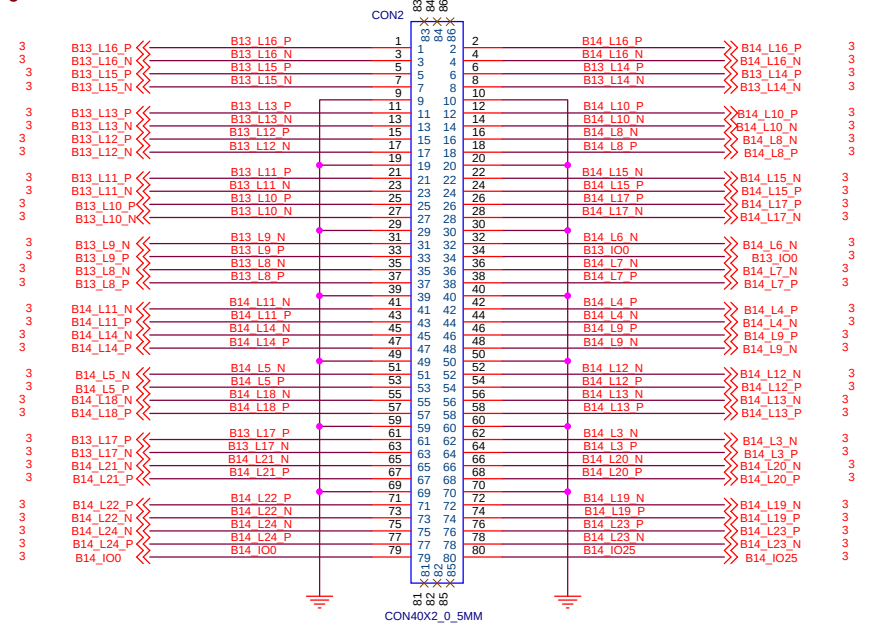
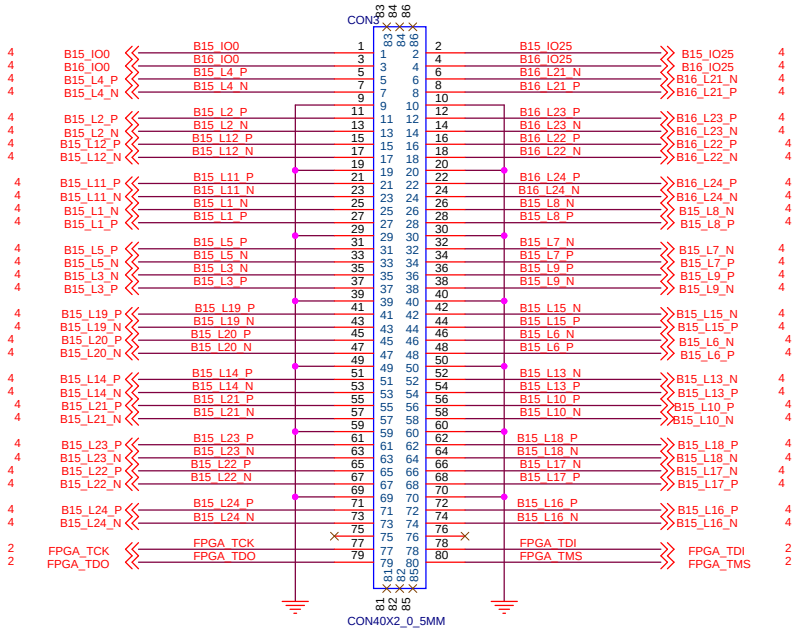
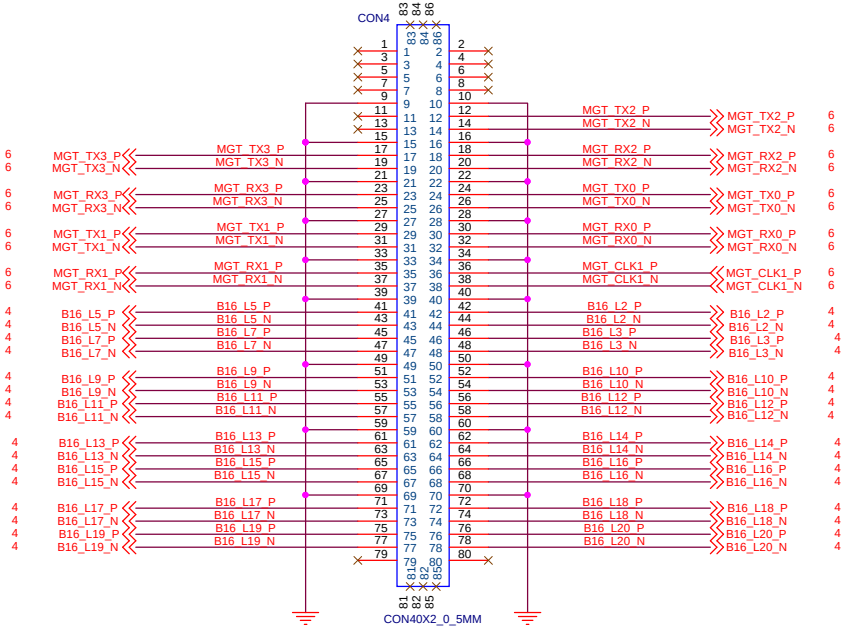
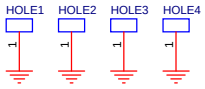
These IOs are on BANK34, Voltage is 1.5V!!!











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Title: PAGE11 Connector

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