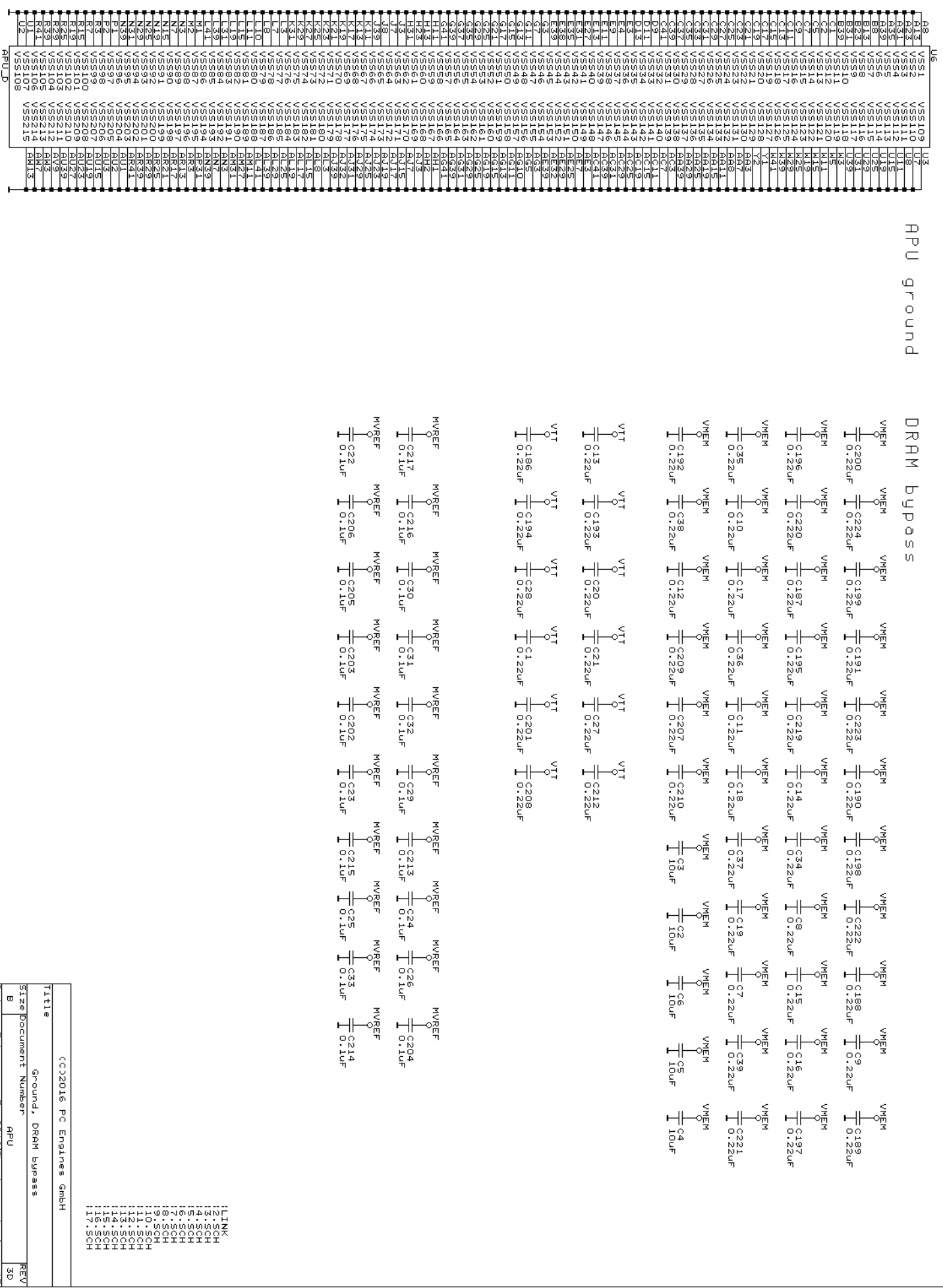


APU ground

DRAM bypass

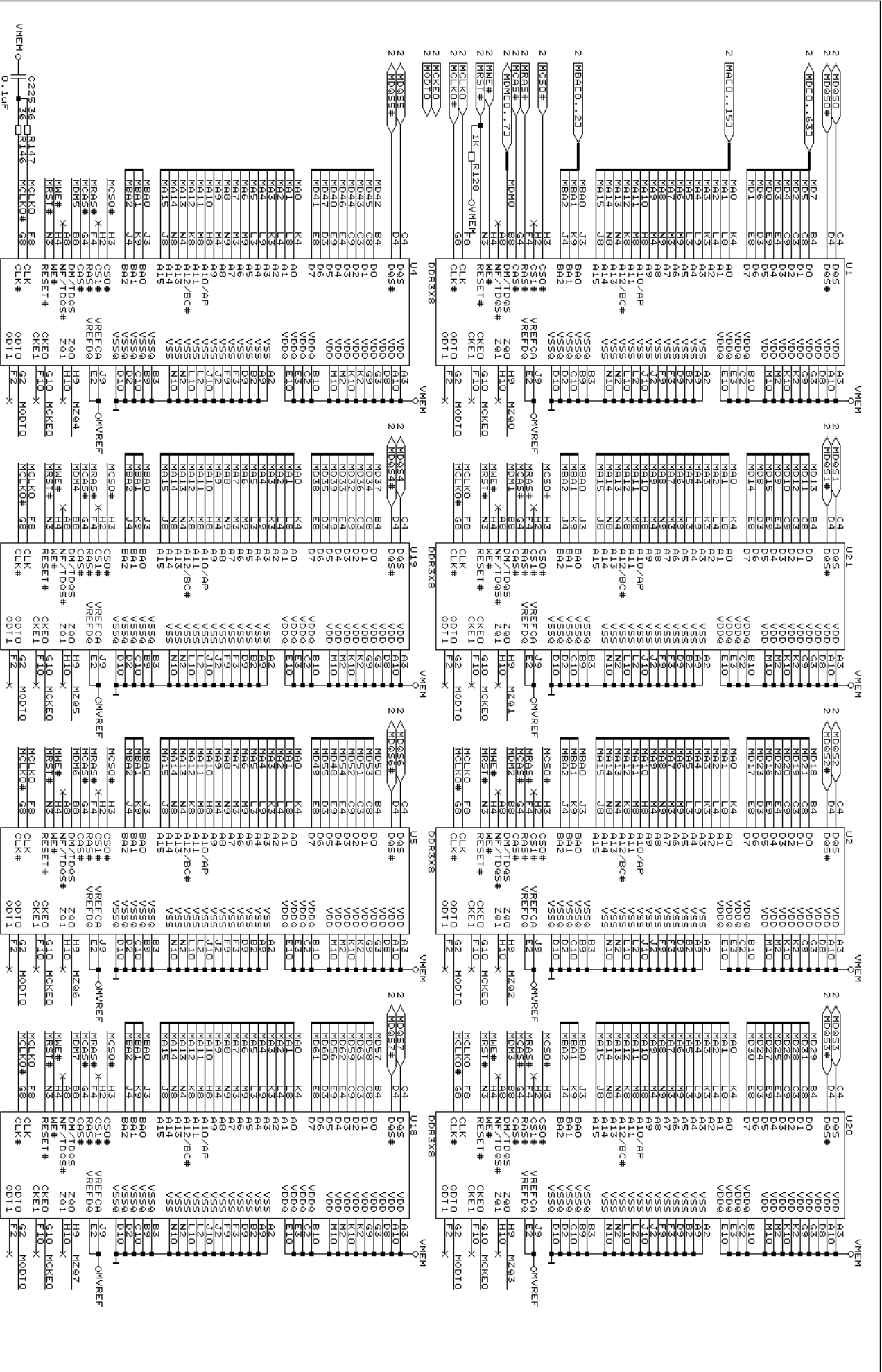


- 17.5SCH
- 15.5SCH
- 14.5SCH
- 12.5SCH
- 11.5SCH
- 10.5SCH
- 9.5SCH
- 8.5SCH
- 7.5SCH
- 5.5SCH
- 4.5SCH
- 3.5SCH
- 2.5SCH
- 1.5SCH
- LNK

Title		Ground, DRAM Bypass	
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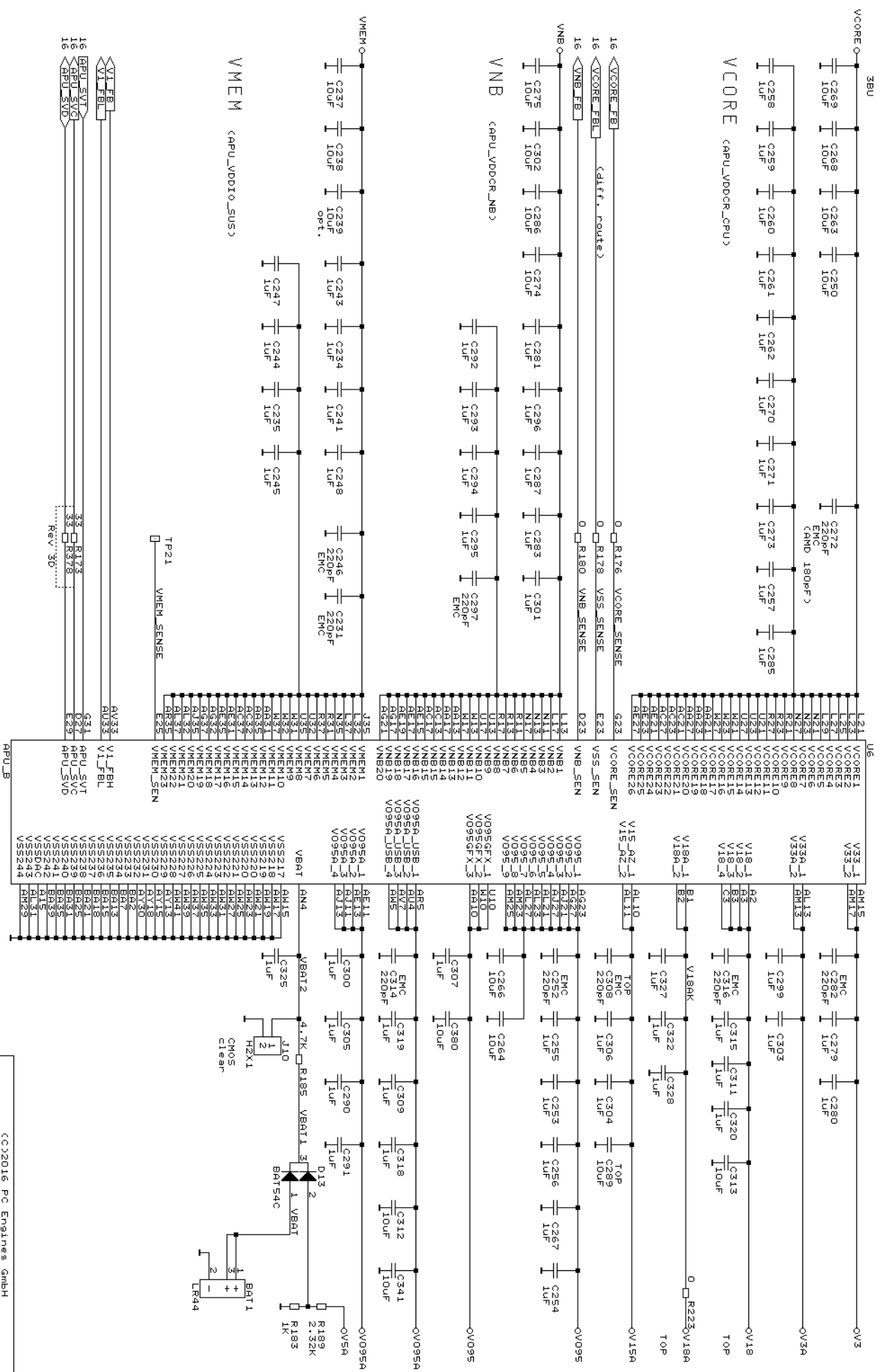
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Component	Value	Location
C225	33p	R147
C226	33p	R148
C227	33p	R149
C228	33p	R150
C229	33p	R151
C230	33p	R152
R143	33k	M40
R144	33k	M41
R145	33k	M42
R146	33k	M43
R135	33k	M44
R136	33k	M45
R137	33k	M46
R138	33k	M47
R139	33k	M48
R140	33k	M49
R141	33k	M50
R142	33k	M51
R143	33k	M52
R144	33k	M53
R145	33k	M54
R146	33k	M55
R147	33k	M56
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R152	33k	M61
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R251	33k	M160

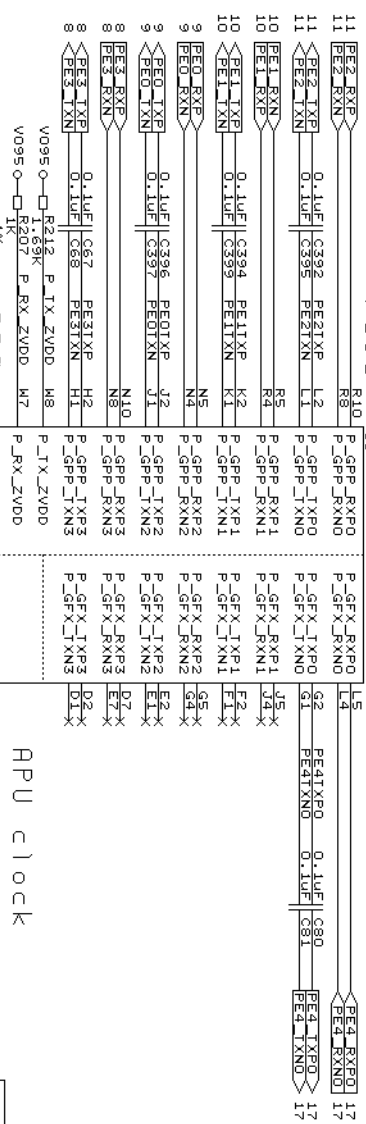
# APU power



PCIe

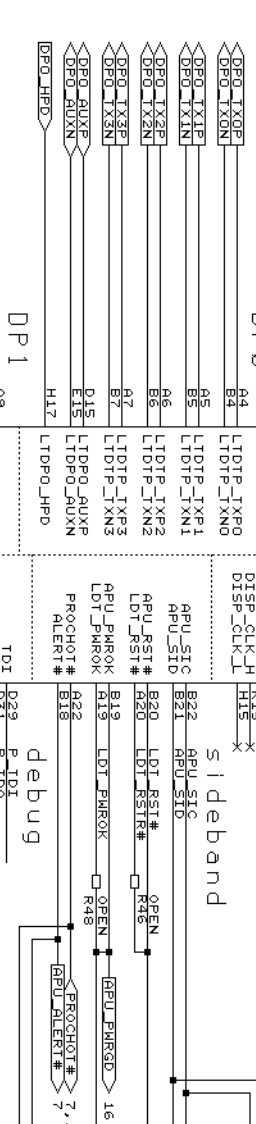
APU

PCIe x 4

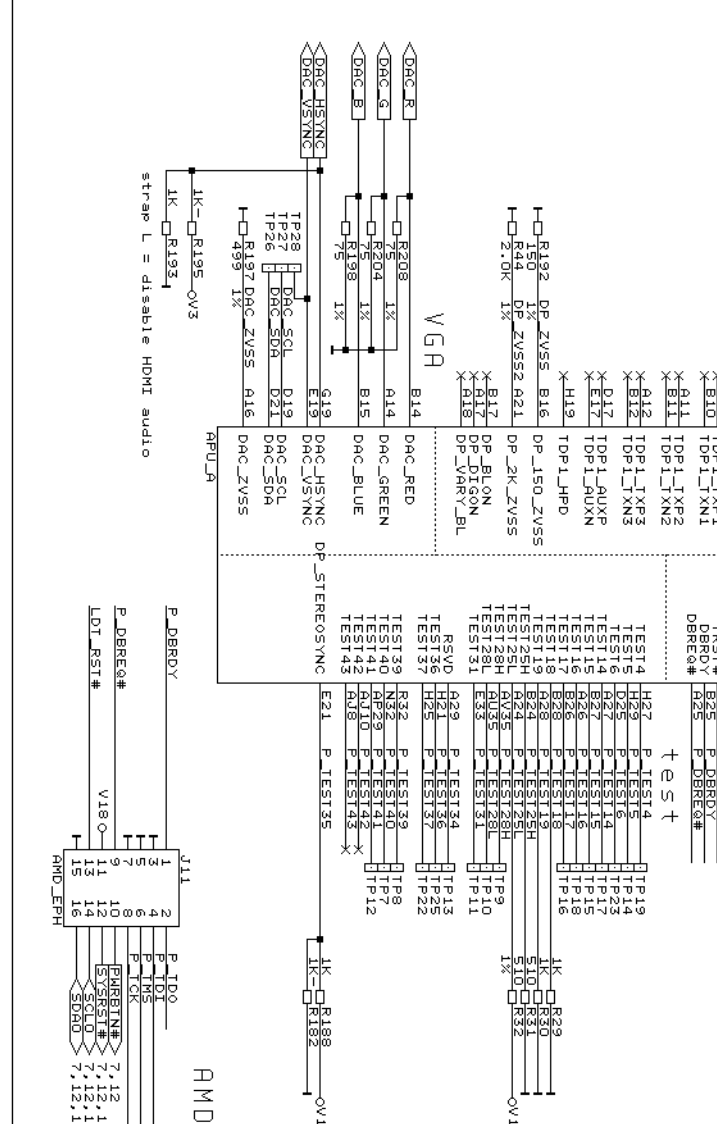


APU clock

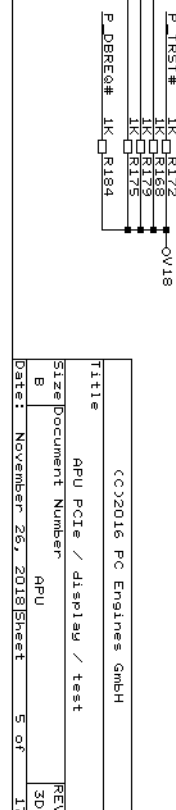
debug



test

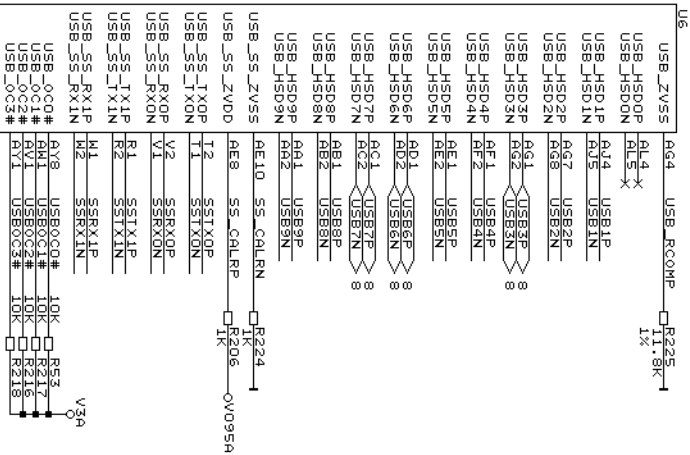


AMD embedded probe header

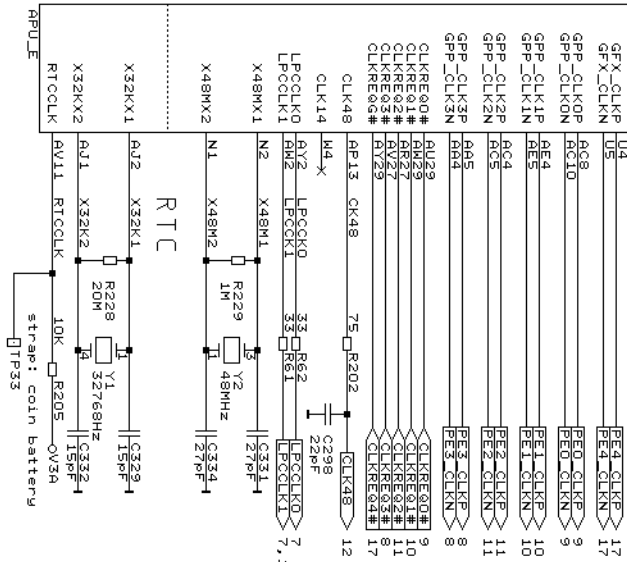


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Title	APU PCIe / display / test
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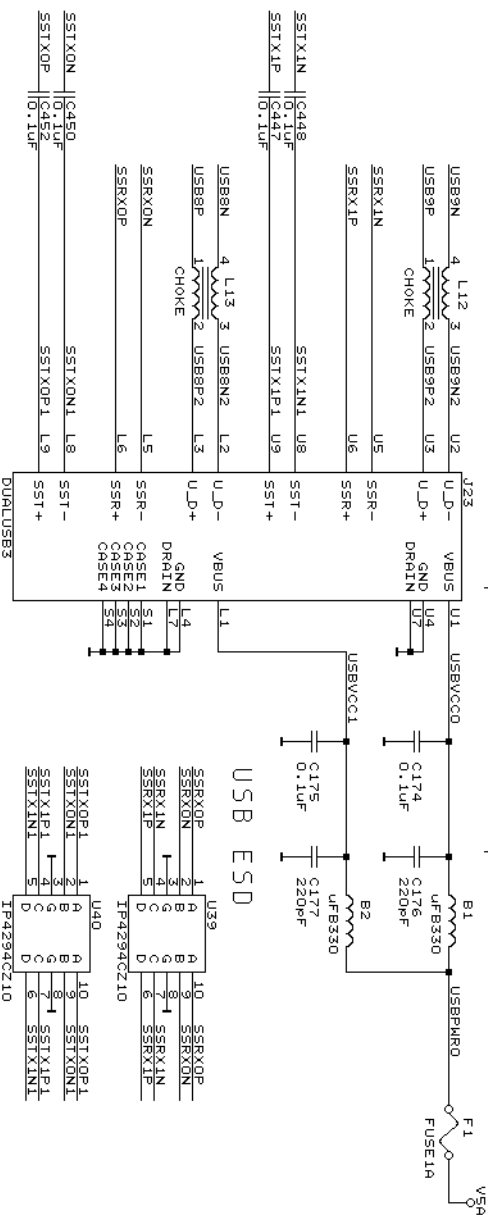
# APU USB



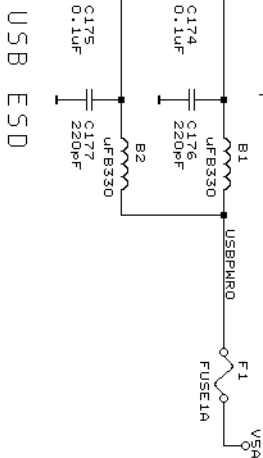
# APU clock



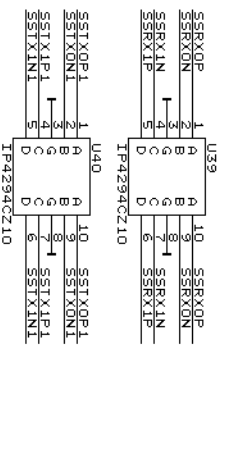
# USB 3.0 port



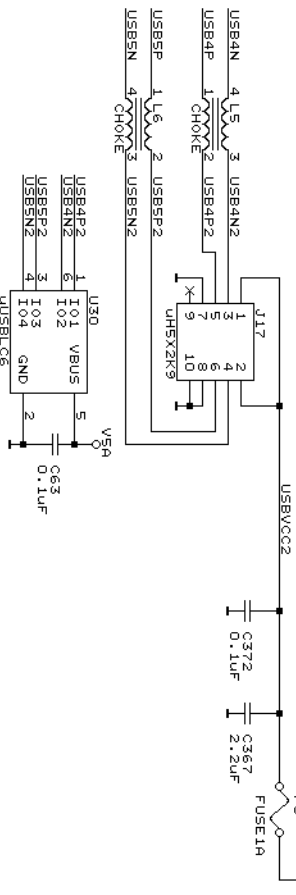
# USB power



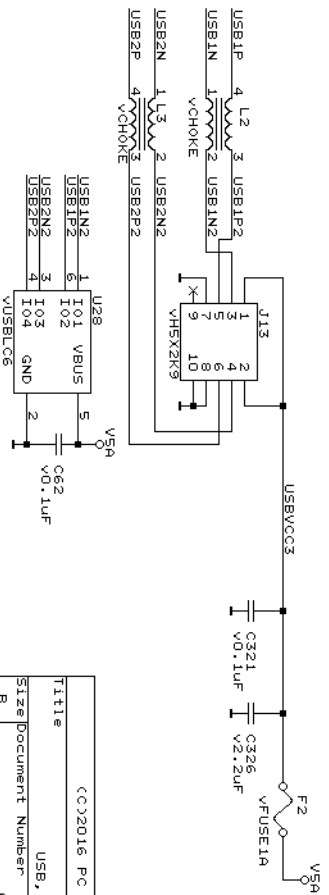
# USB ESD

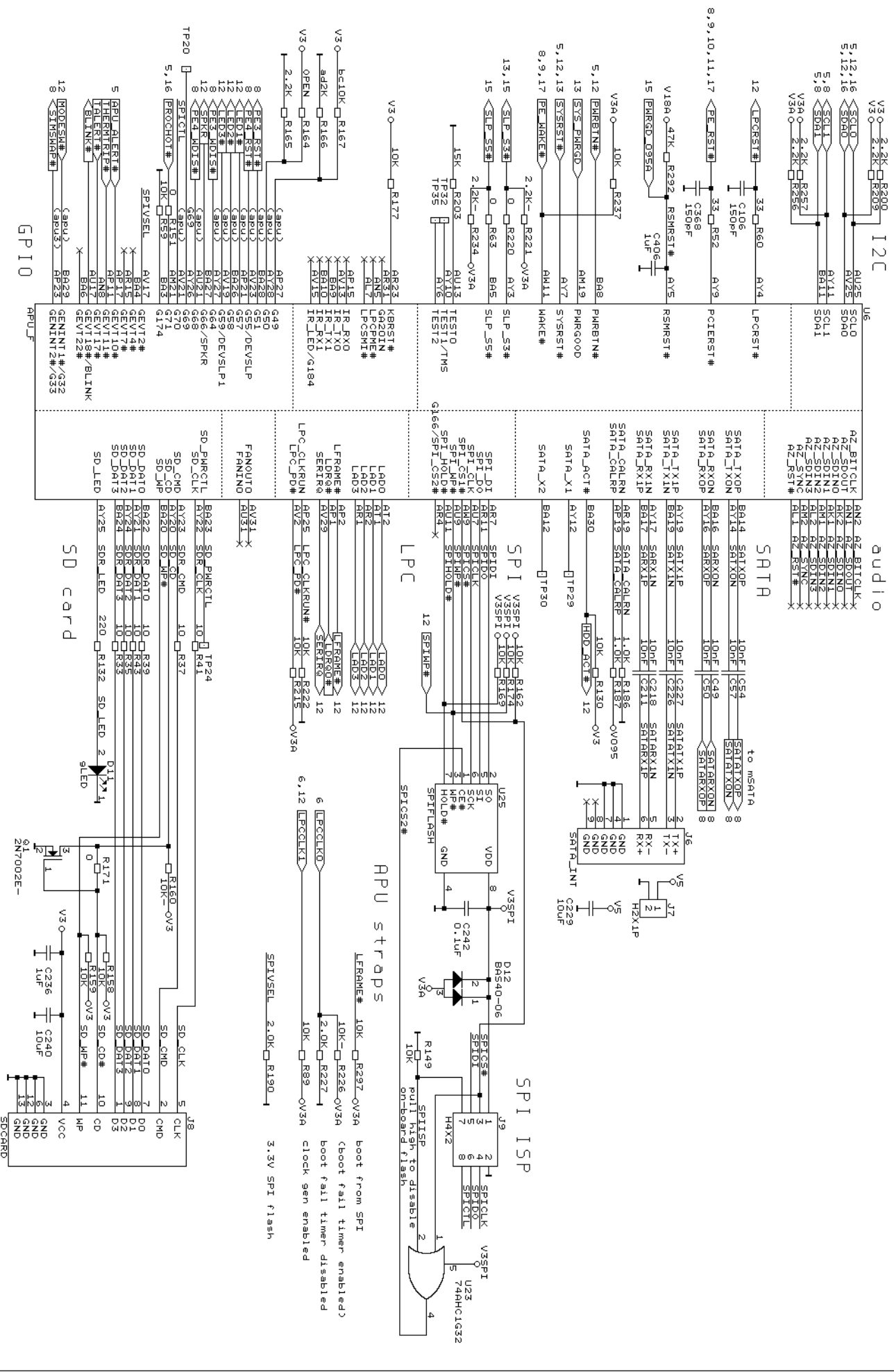


# Internal USB 2.0 header



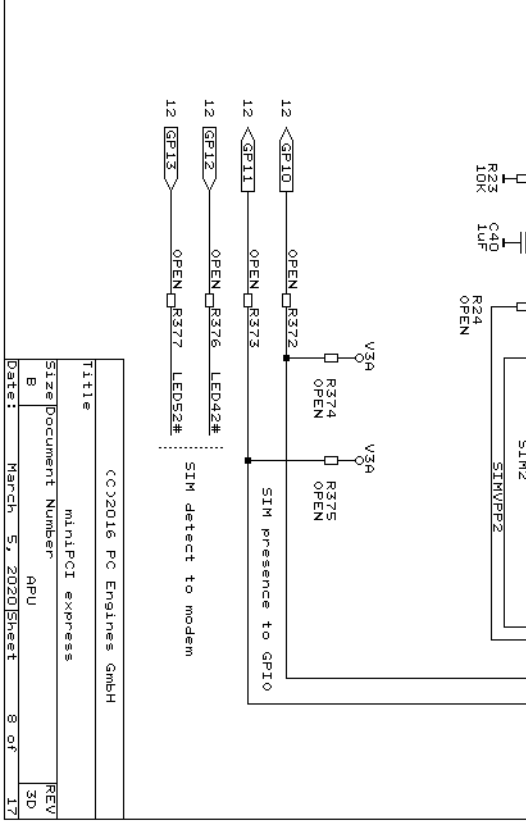
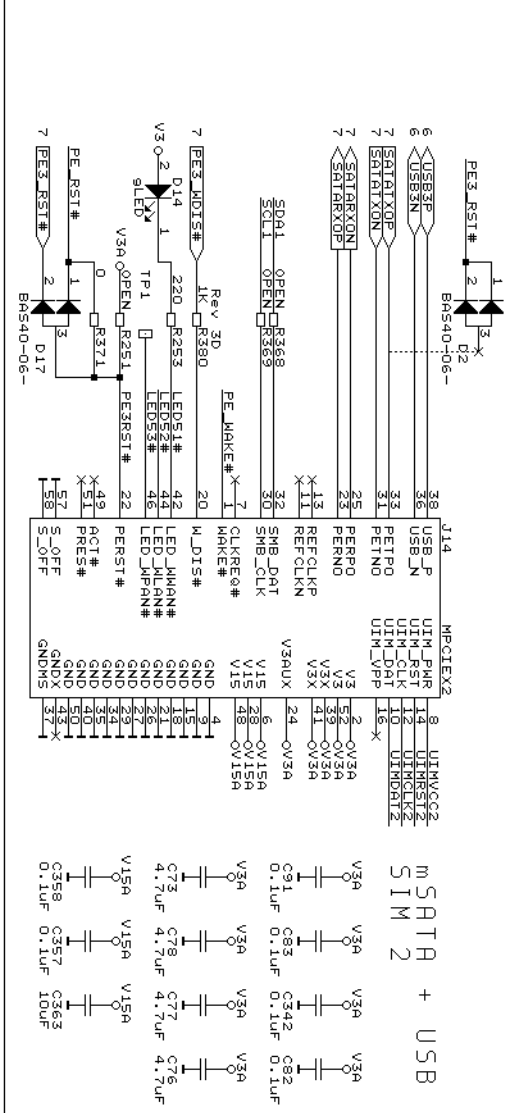
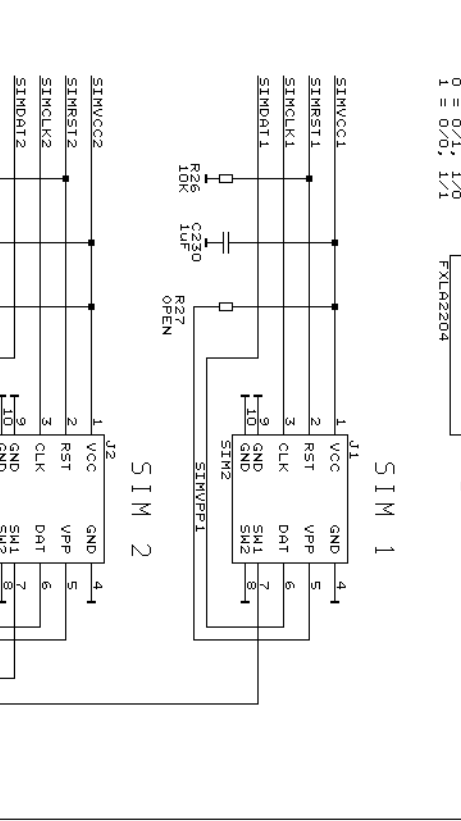
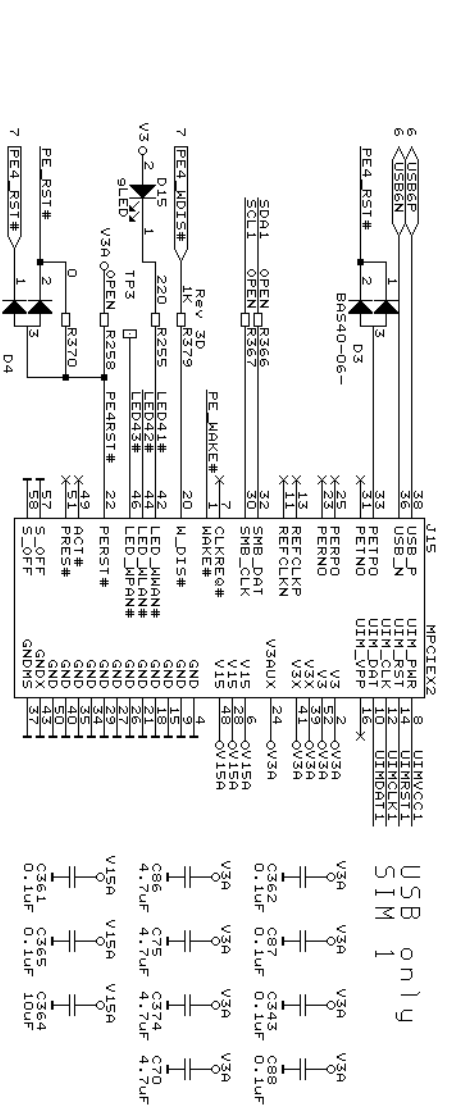
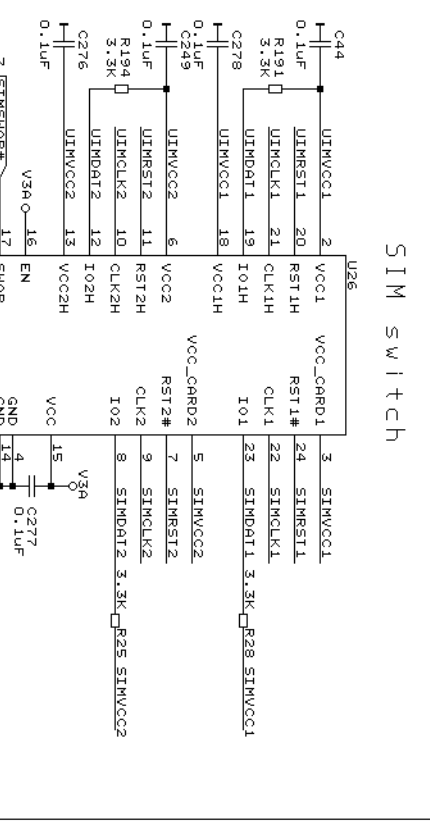
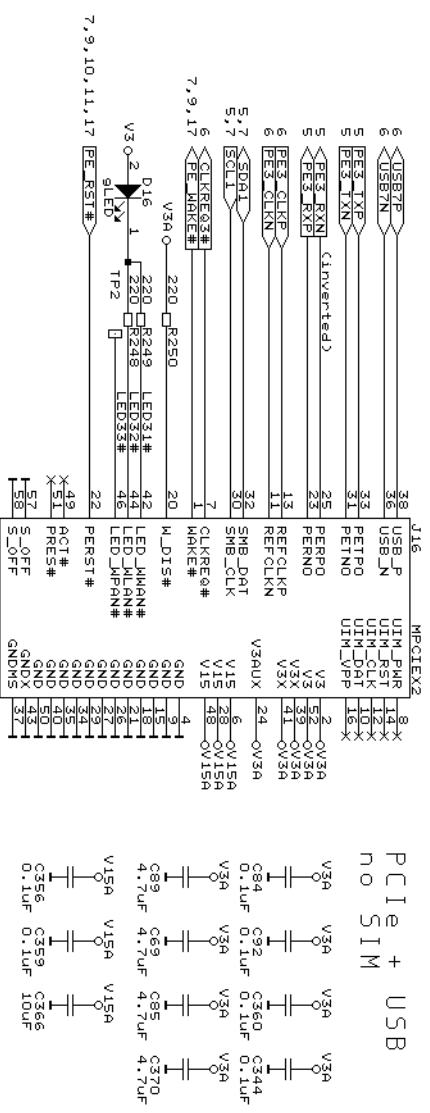
# Internal USB 2.0 header (option v)



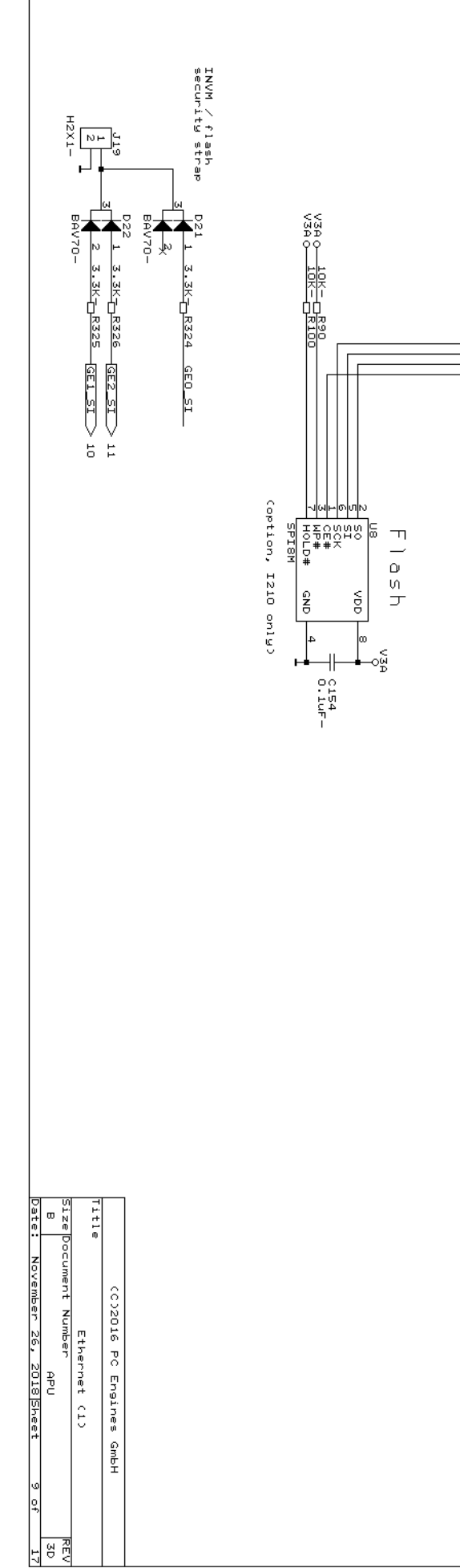
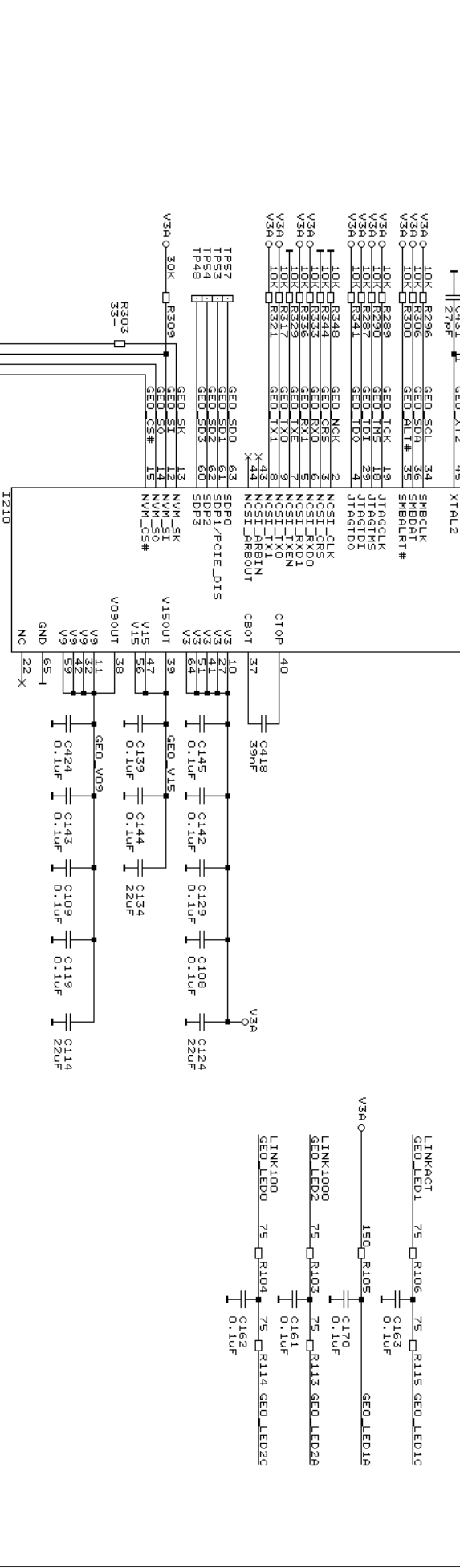
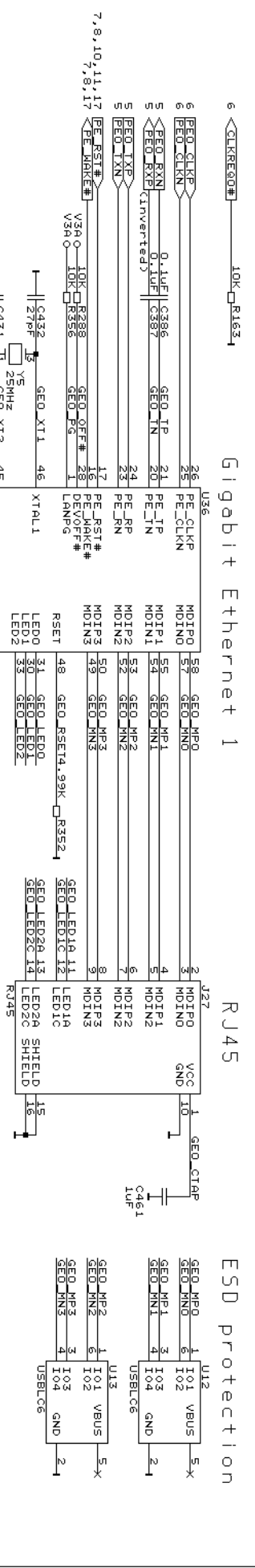


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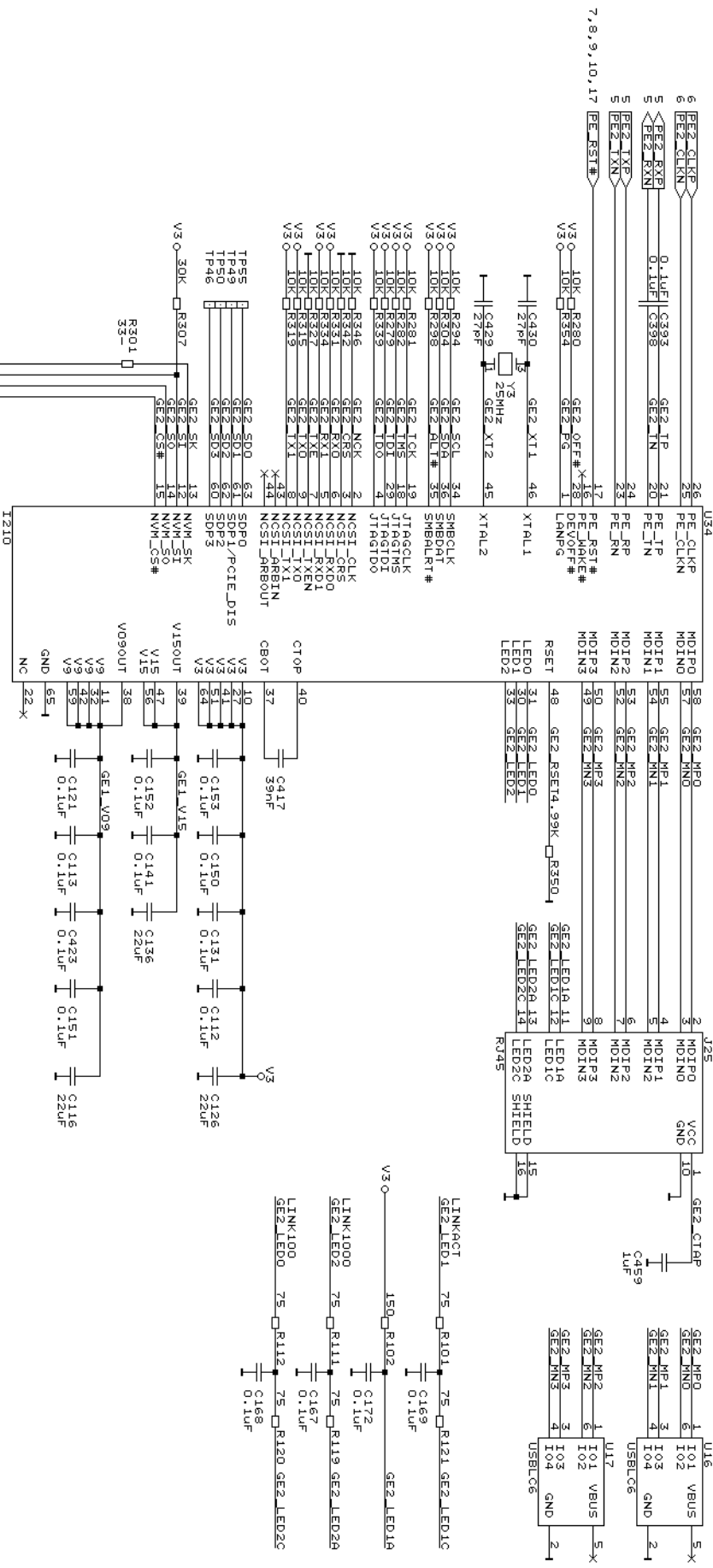


6 CLKREG2# 10K R170

### Gigabit Ethernet 3

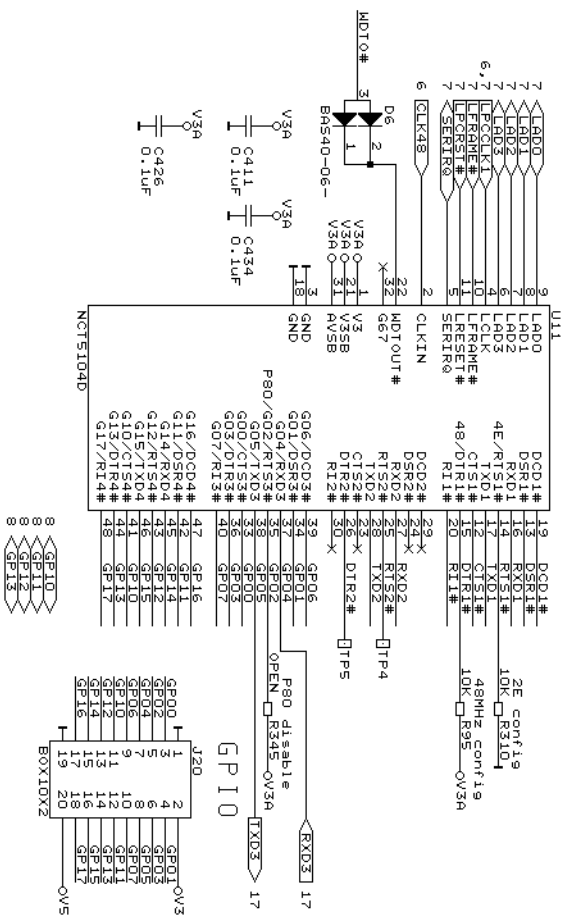
RJ45

### ESD protection

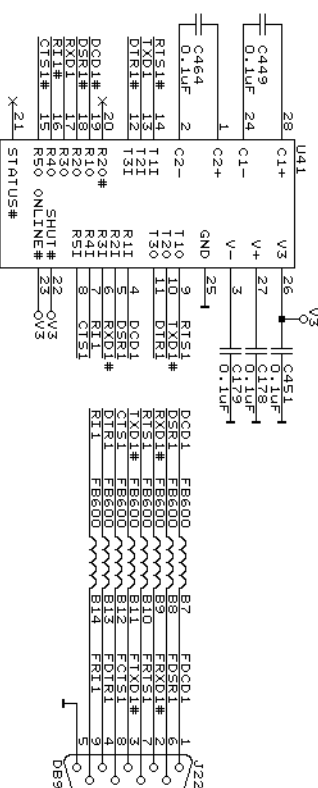


(option, I210 only)

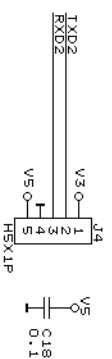
### LPC UART



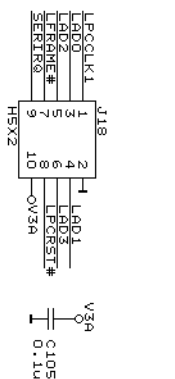
### COM1



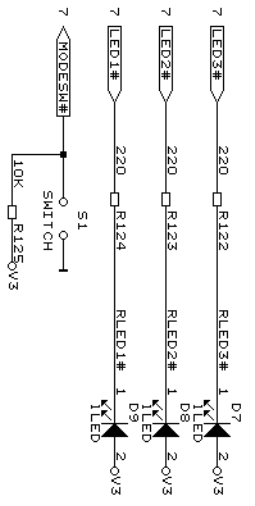
### COM2



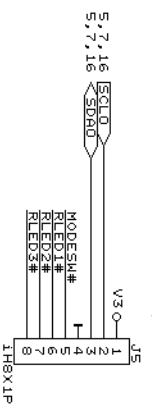
### LPC debug



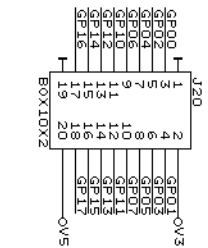
### LED + switch



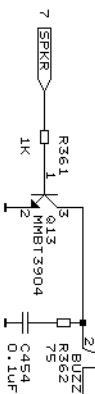
### I2C option



### GPIO



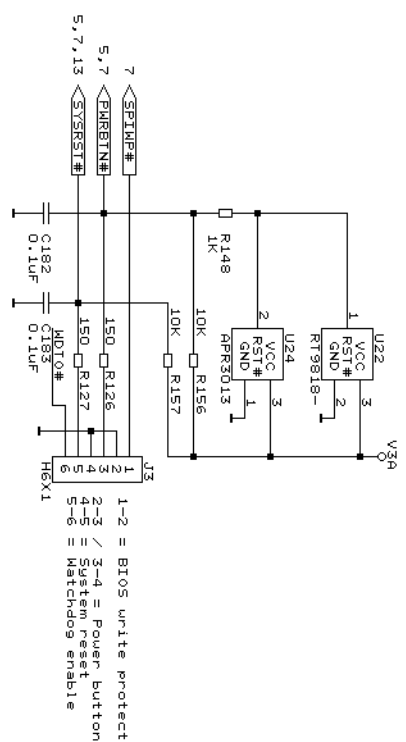
### Buzzer



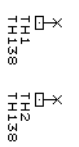
### SATA activity LED



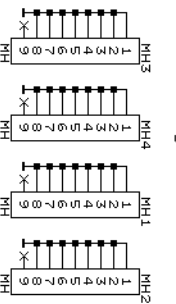
### Power / reset / watchdog header



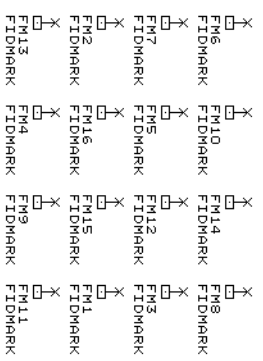
### Heat spreader mounting



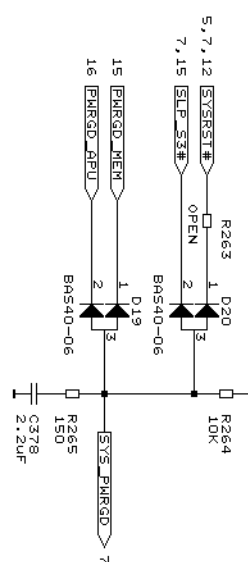
### Mounting holes



### Fiducial marks



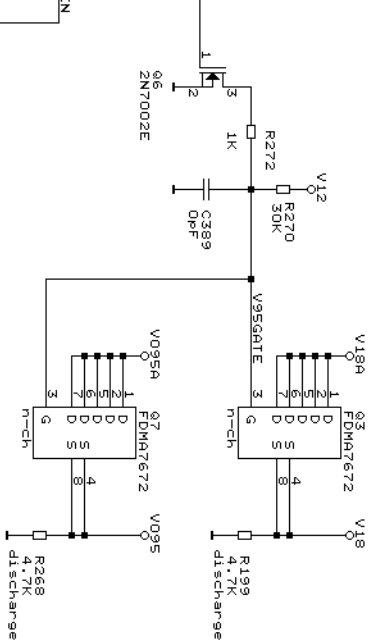
Power good v18a



VRM test points

V5A0	TP58	V5O	TP45
V3A0	TP44	V3O	TP43
V18A0	TP37	V18O	TP36
V15A0	TP40	V1O	TP31
VMEM0	TP34	V095A0	TP41
V095A0	TP42	VNB0	TP39
VCORE0	TP38		

Power switch

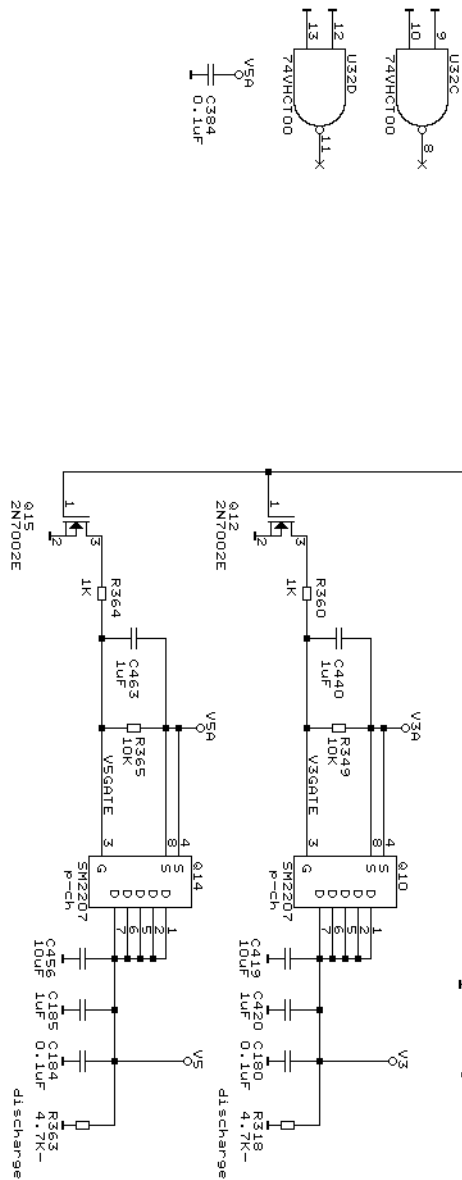


1.8V

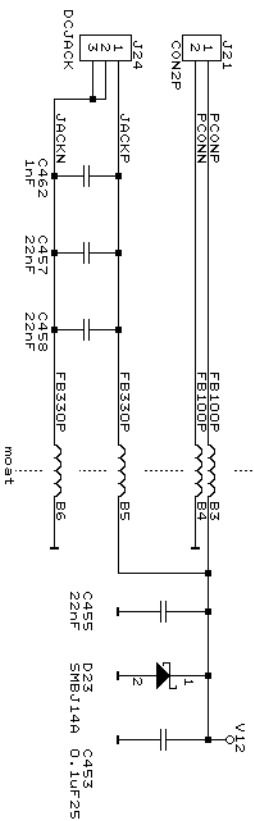
0.95V

3.3V

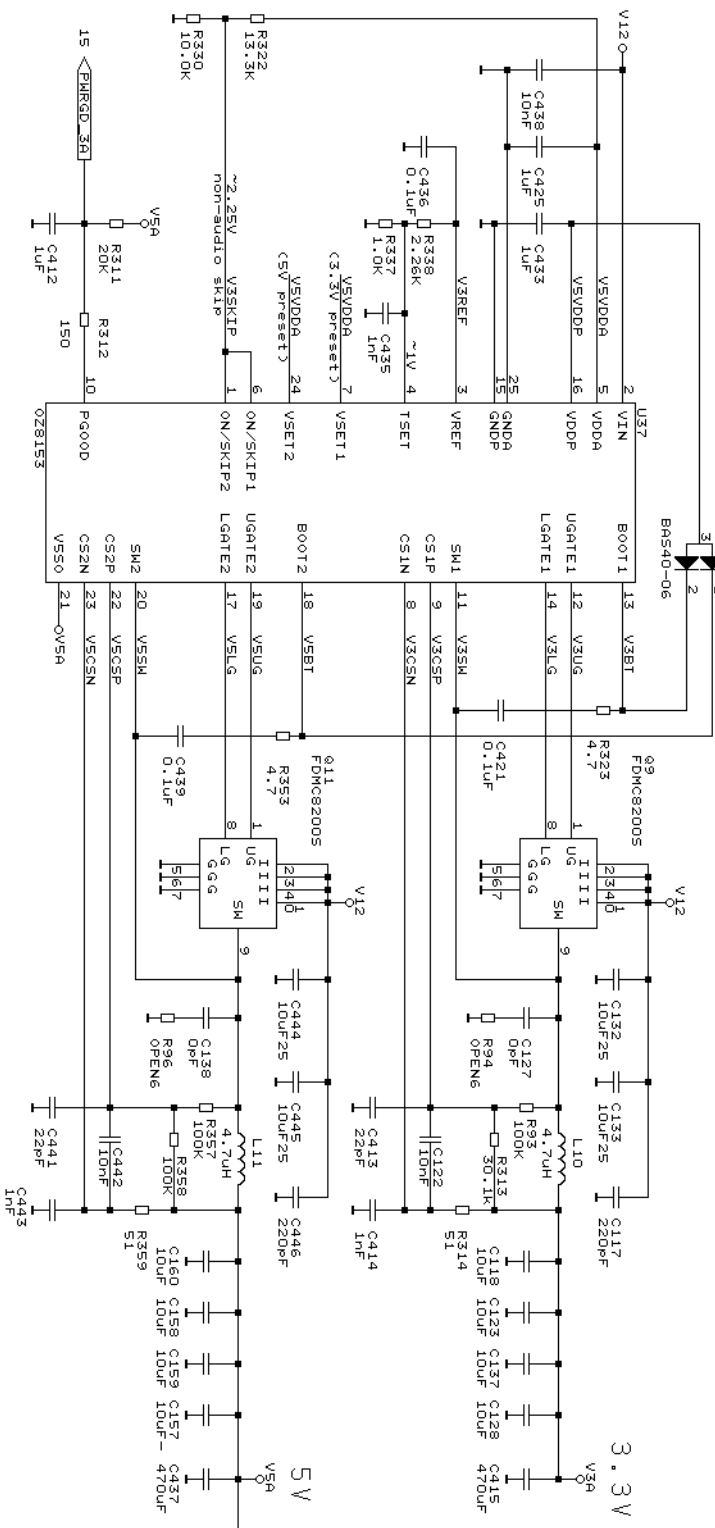
5V



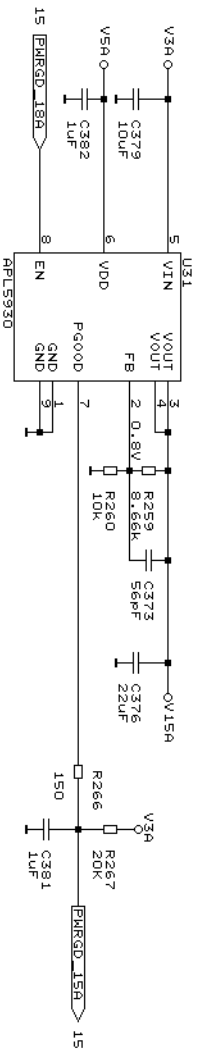
Power input +12V



3.3V and 5V converter

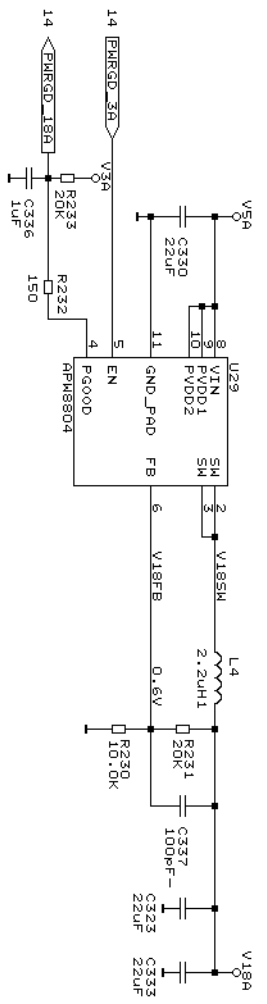


3.3V -> 1.5V LDO (0.5A)



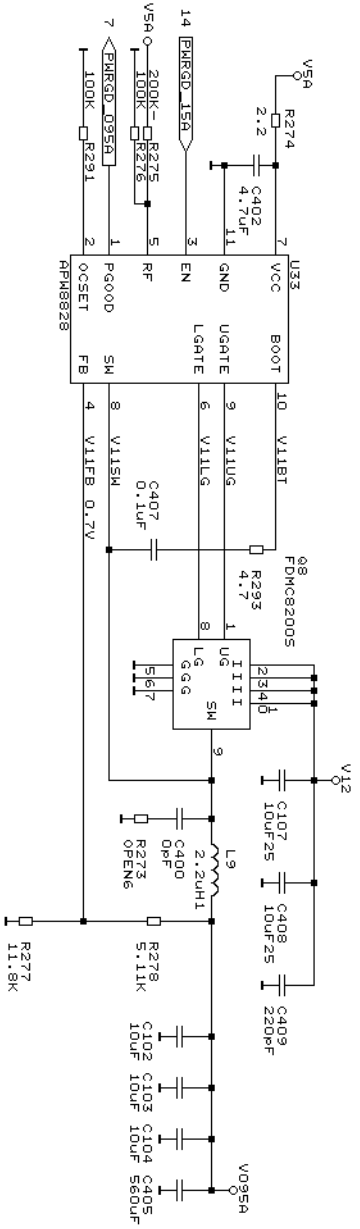
Title		power In, 3.3V, 5V, 1.5V	
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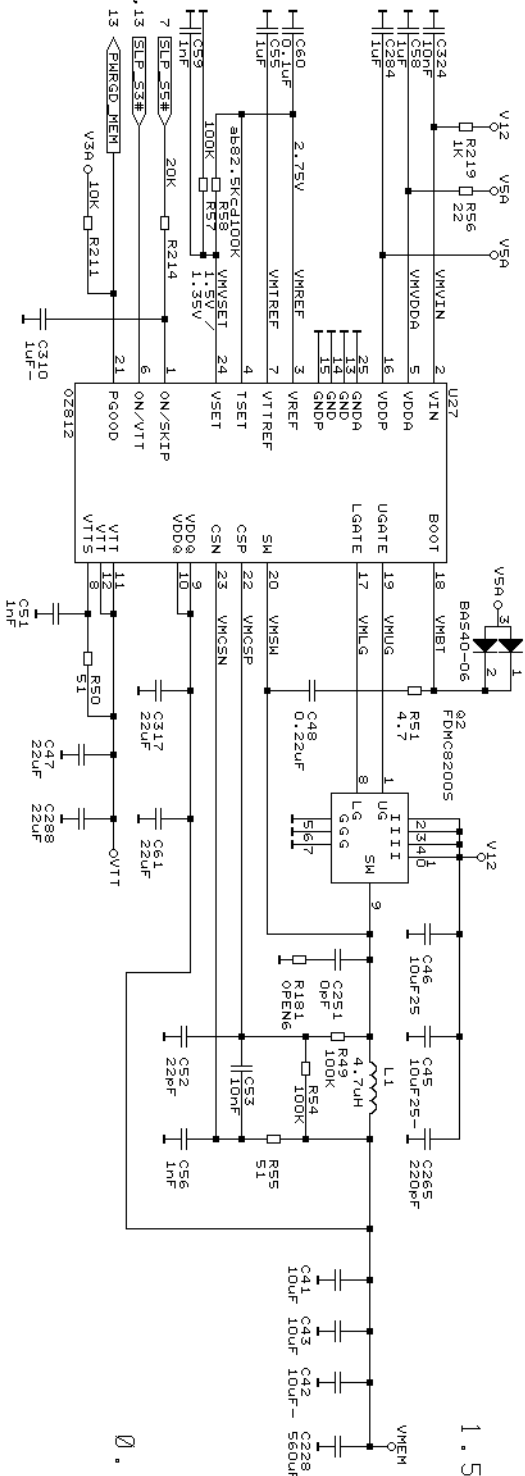
1.8 V , 2A

0.95A , 5A



1.5 V VMEM

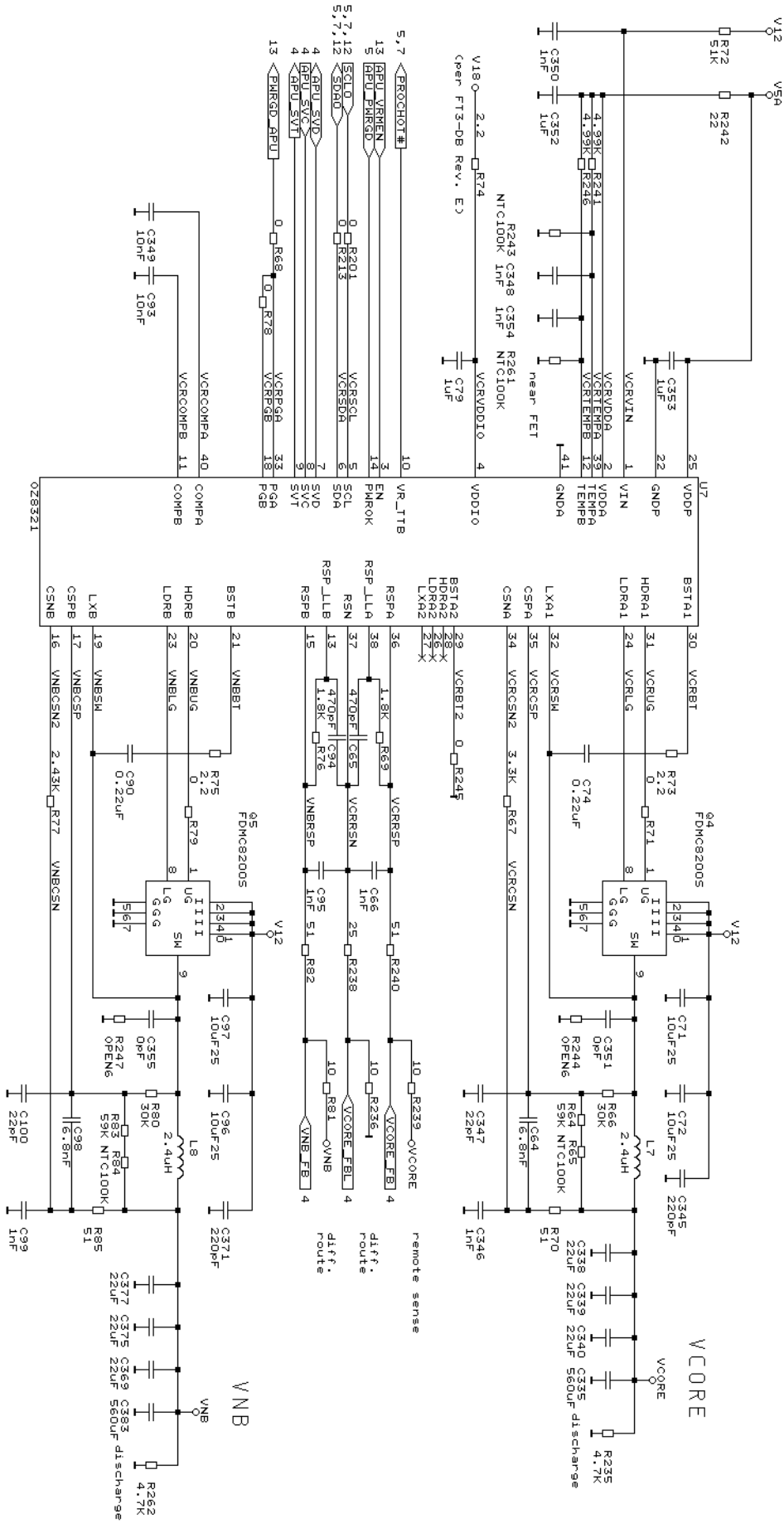
VMEM converter and VTT LDO



0.75V VTT

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# VCORE and VNB converter

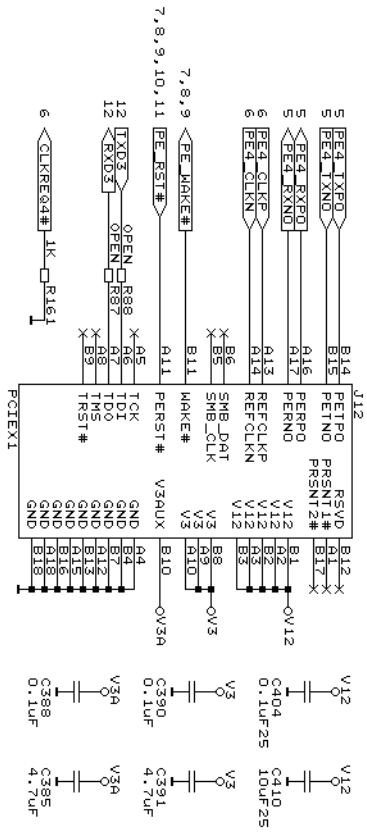


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# PCIe x1 expansion



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30			

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