

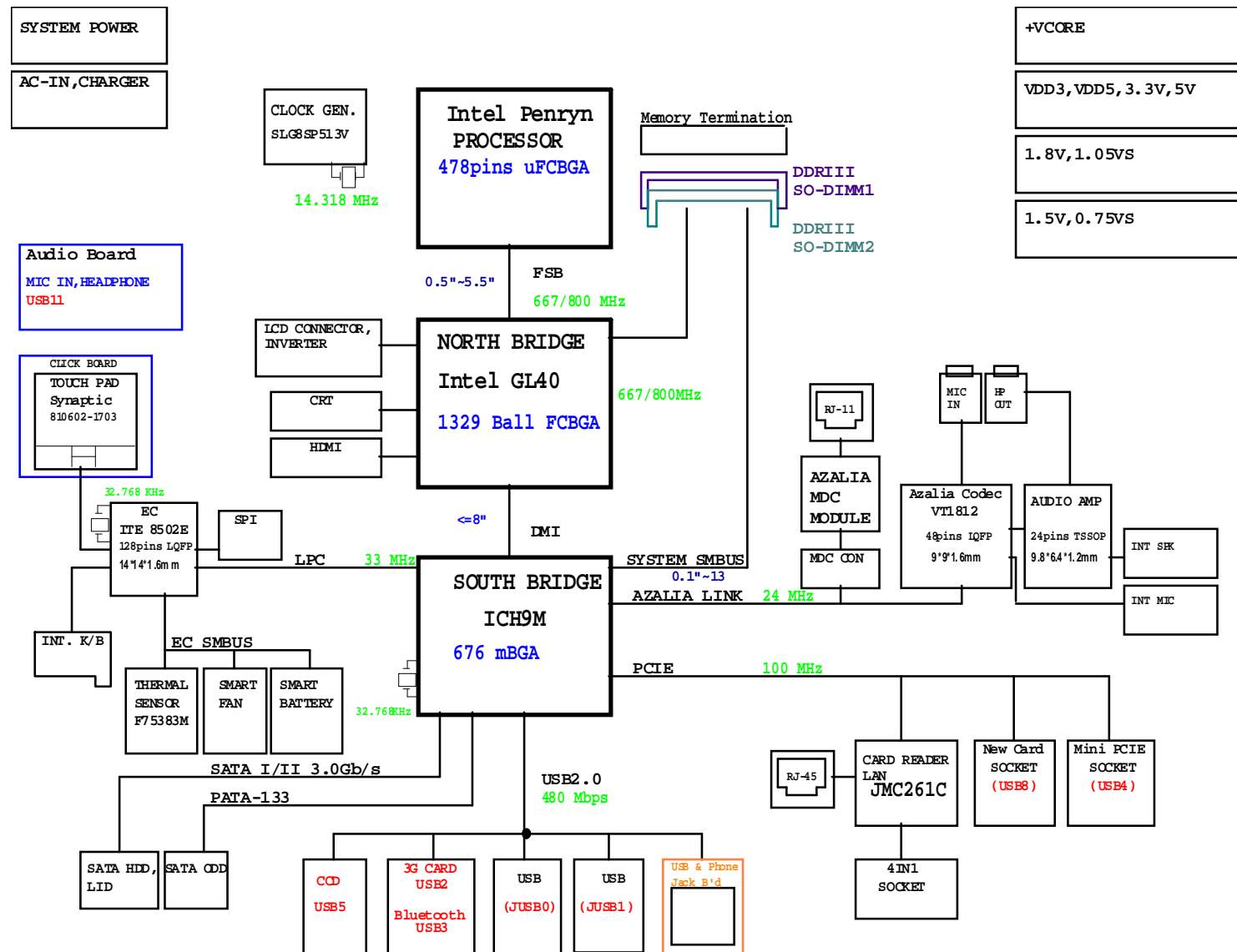
# Appendix B:Schematic Diagrams

This appendix has circuit diagrams of the *C5100Q/C5100Q-C/C5105/C5105-C* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

## CLEVO C5100Q System Block Diagram

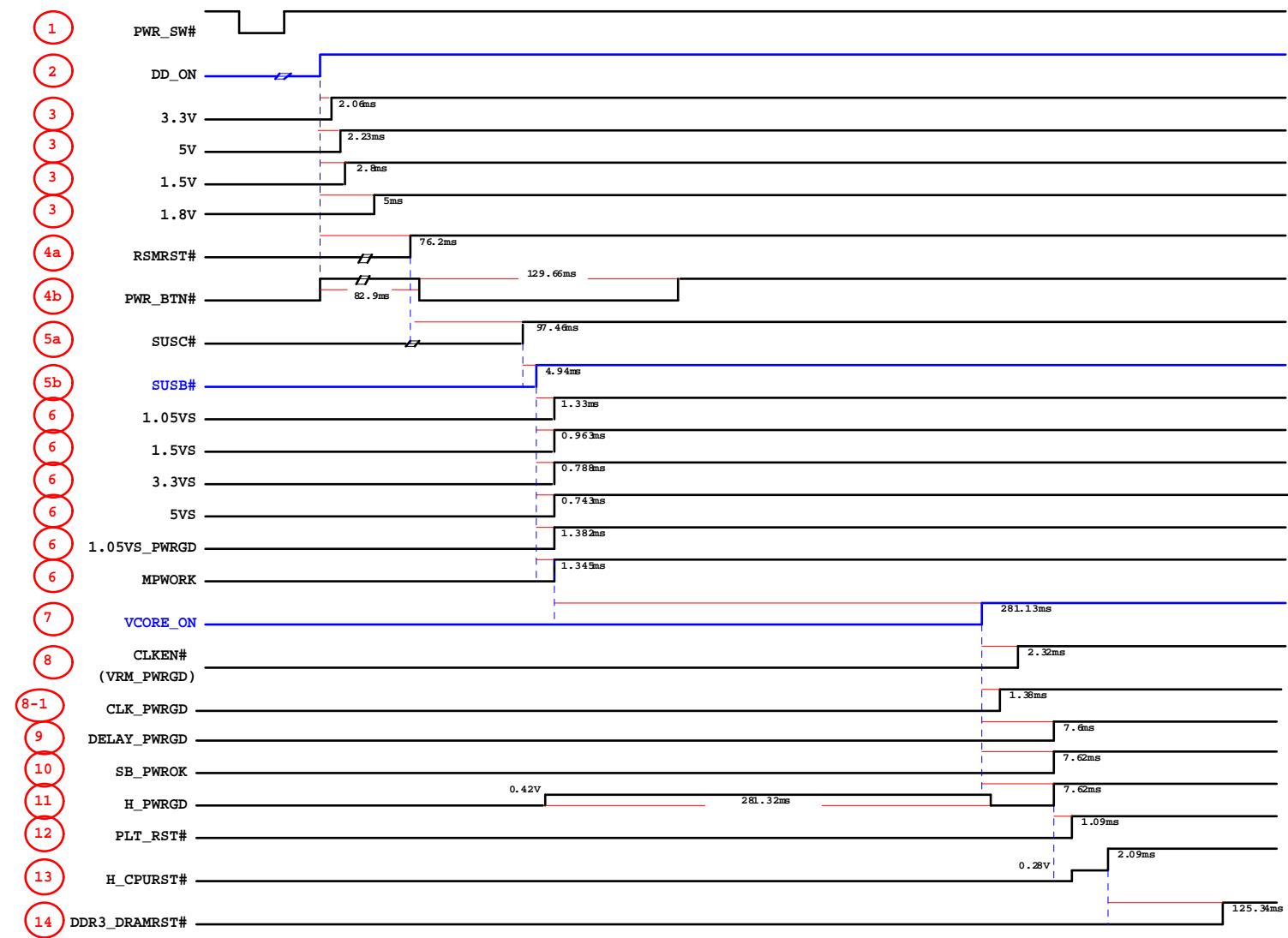
Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>Panel, CRT - Page B - 15</i>	<i>LED, CCD, Audio Conn - Page B - 28</i>
<i>Clock Generator - Page B - 3</i>	<i>Inverter, Bluetooth, Fan - Page B - 16</i>	<i>System Power, PWR SW - Page B - 29</i>
<i>Penryn (Socket-P)1/2 - Page B - 4</i>	<i>ICH9M 1/4, SATA - Page B - 17</i>	<i>AC_In, Charger - Page B - 30</i>
<i>Penryn (Socket-P)2/2 - Page B - 5</i>	<i>ICH9M 2/4, PCI, USB - Page B - 18</i>	<i>VCORE - Page B - 31</i>
<i>CANTIGA 1/7, HOST - Page B - 6</i>	<i>ICH9M 3/4 - Page B - 19</i>	<i>VDD3, VDD5 - Page B - 32</i>
<i>CANTIGA 2/7, Graphics - Page B - 7</i>	<i>ICH9M 4/4 - Page B - 20</i>	<i>1.8V/1.05VS - Page B - 33</i>
<i>CANTIGA 3/7 - Page B - 8</i>	<i>HDMI - Page B - 21</i>	<i>1.5V,0.75VS - Page B - 34</i>
<i>CANTIGA 4/7 - Page B - 9</i>	<i>KBC-ITE IT8502E - Page B - 22</i>	<i>Click Board - Page B - 35</i>
<i>CANTIGA 5/7 - Page B - 10</i>	<i>Card Reader/LAN JMB261C - Page B - 23</i>	<i>Audio Board/USB - Page B - 36</i>
<i>CANTIGA 6/7 - Page B - 11</i>	<i>Audio Codec VT1812 - Page B - 24</i>	<i>Power Switch &amp; Lid Board - Page B - 37</i>
<i>CANTIGA 7/7 - Page B - 12</i>	<i>Audio AMP - Page B - 25</i>	<i>External Odd Board - Page B - 38</i>
<i>DDRIII SO-DIMM A - Page B - 13</i>	<i>HDD, ODD, MDC, TP, Conn, 3G - Page B - 26</i>	<i>Power Sequence V1.0 - Page B - 39</i>
<i>DDRIII SO-DIMM B - Page B - 14</i>	<i>New Card, USB, Mini PCIE - Page B - 27</i>	

## System Block Diagram



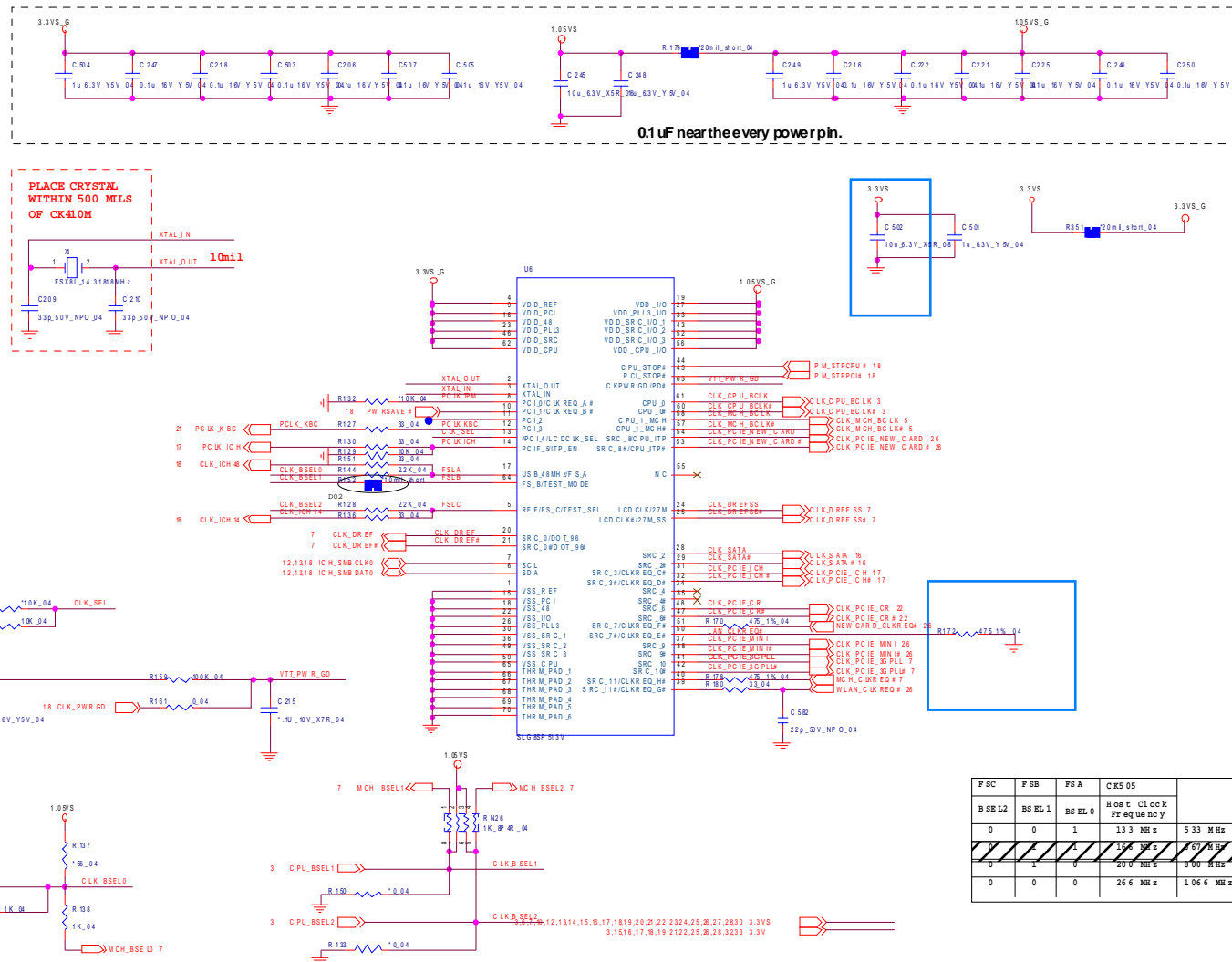
# Power Sequence V1.0

## C5100 V1.0 POWER ON SEQUENCE

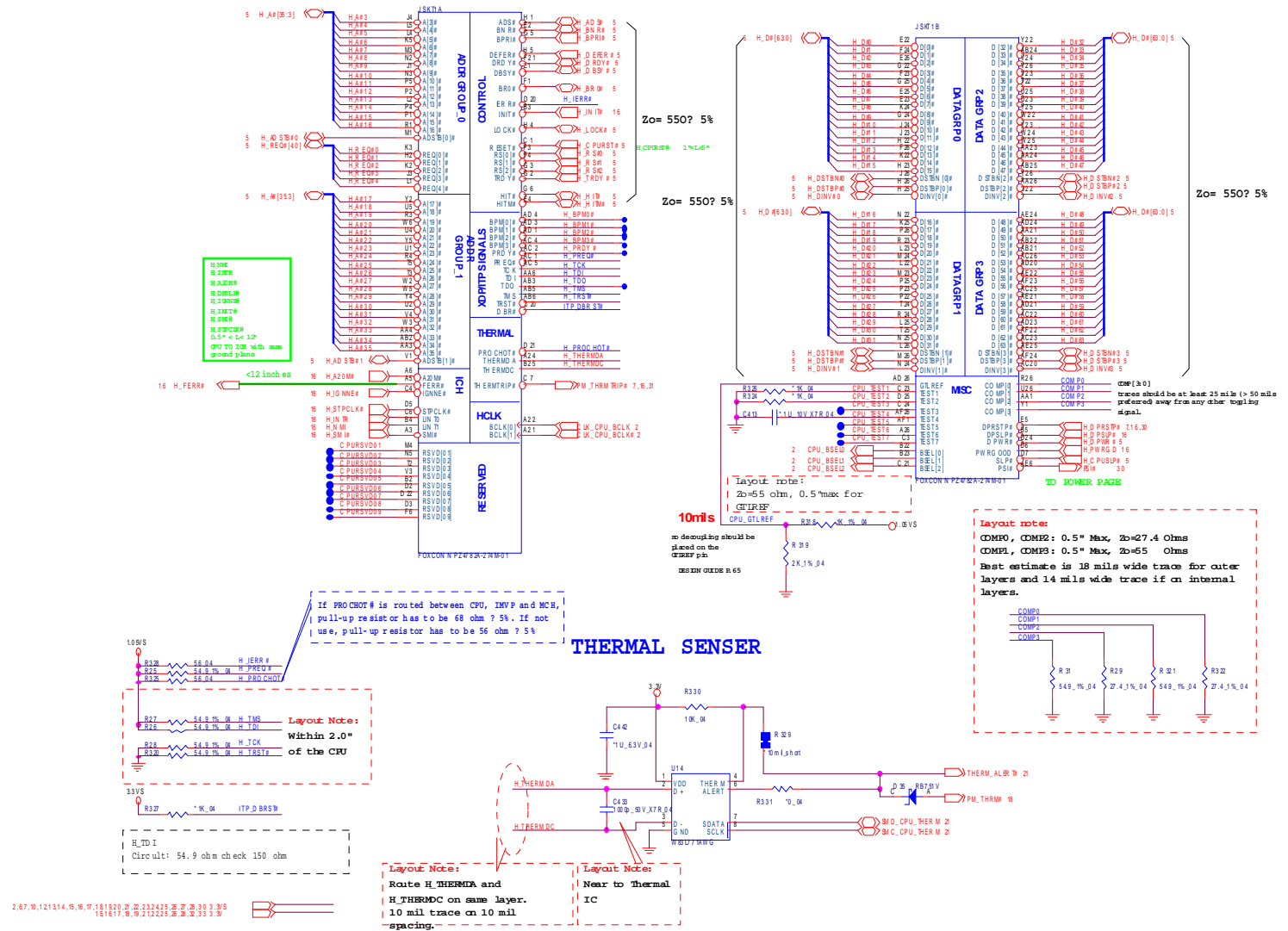


# Clock Generator

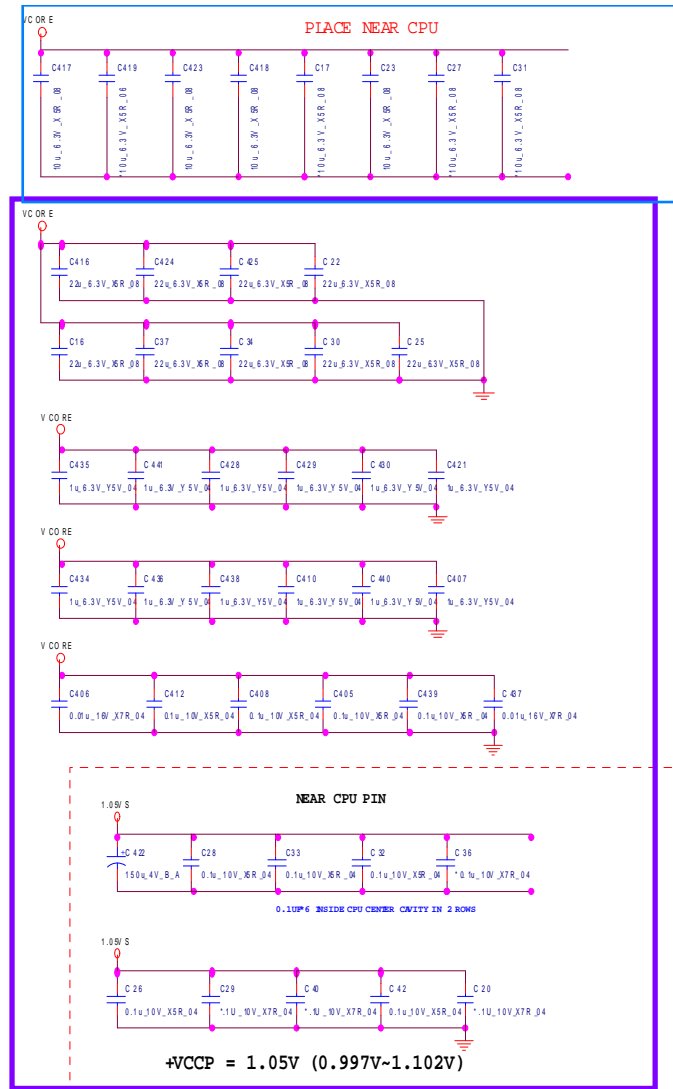
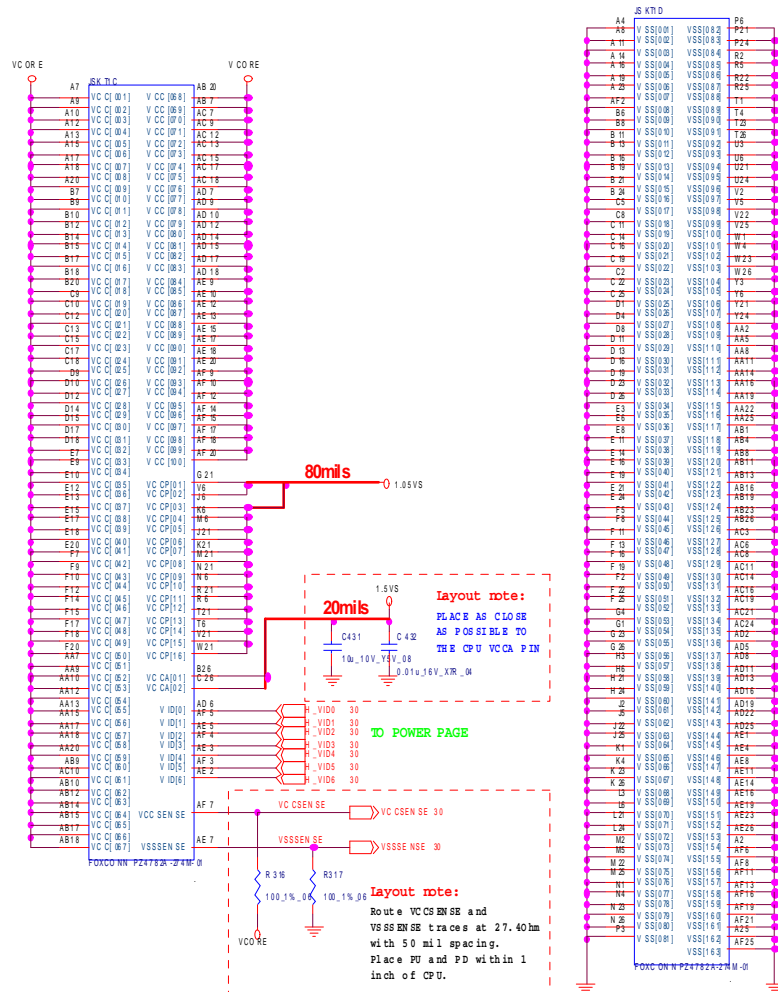
## CLOCK GENERATOR



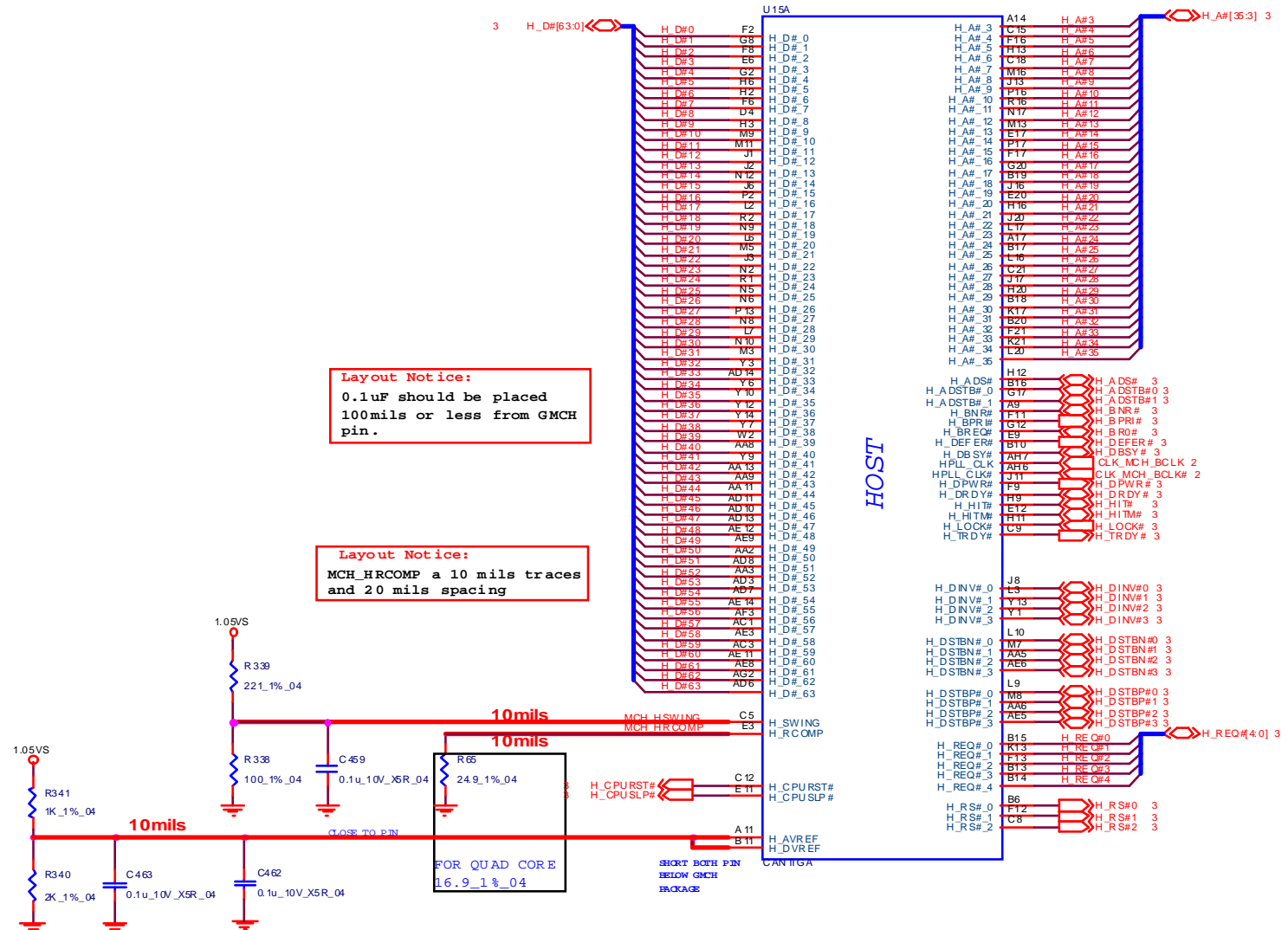
## Penryn (Socket-P)1/2



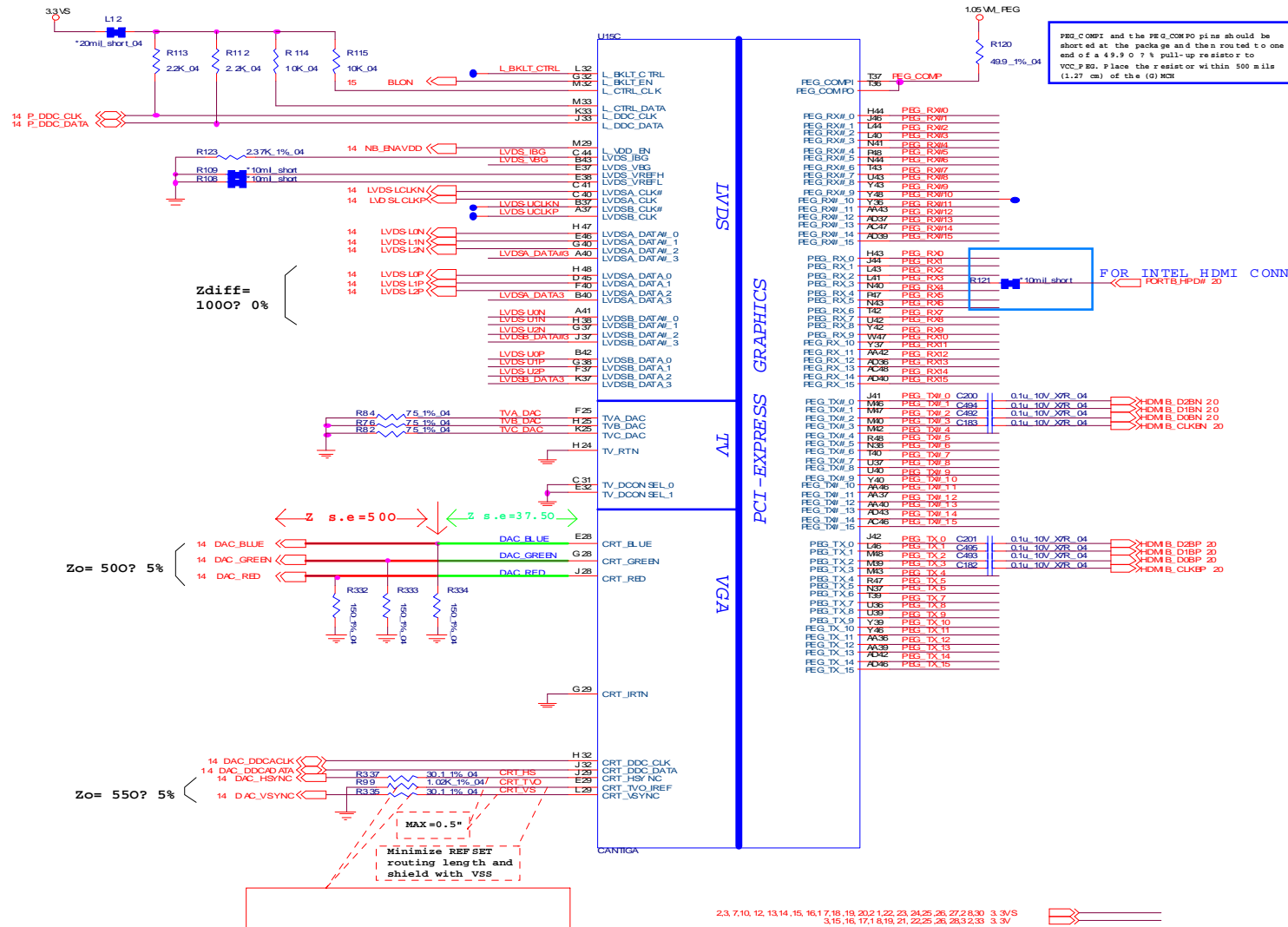
## Penryn (Socket-P)2/2



## CANTIGA 1/7, HOST

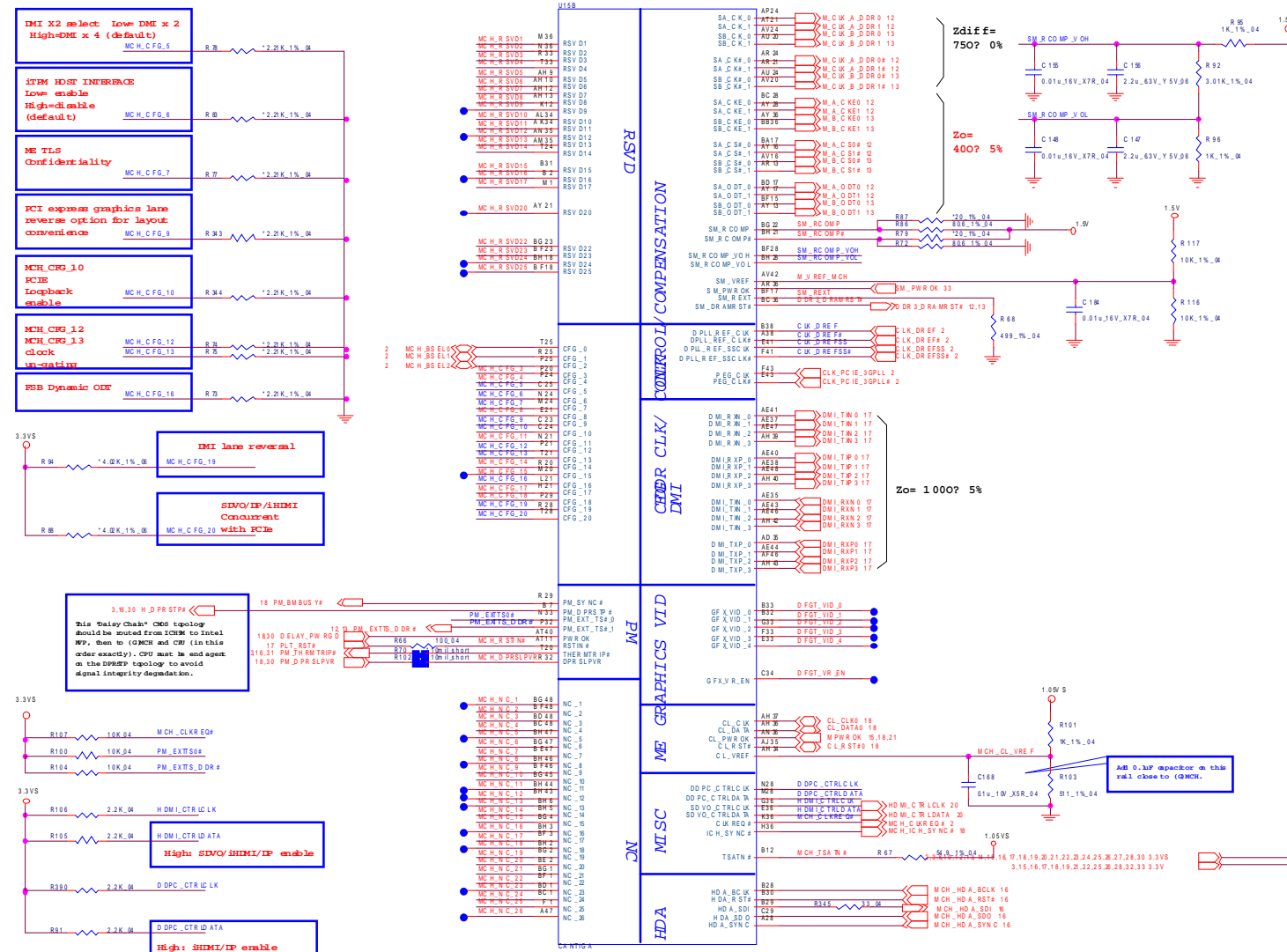


# CANTIGA 2/7, Graphics



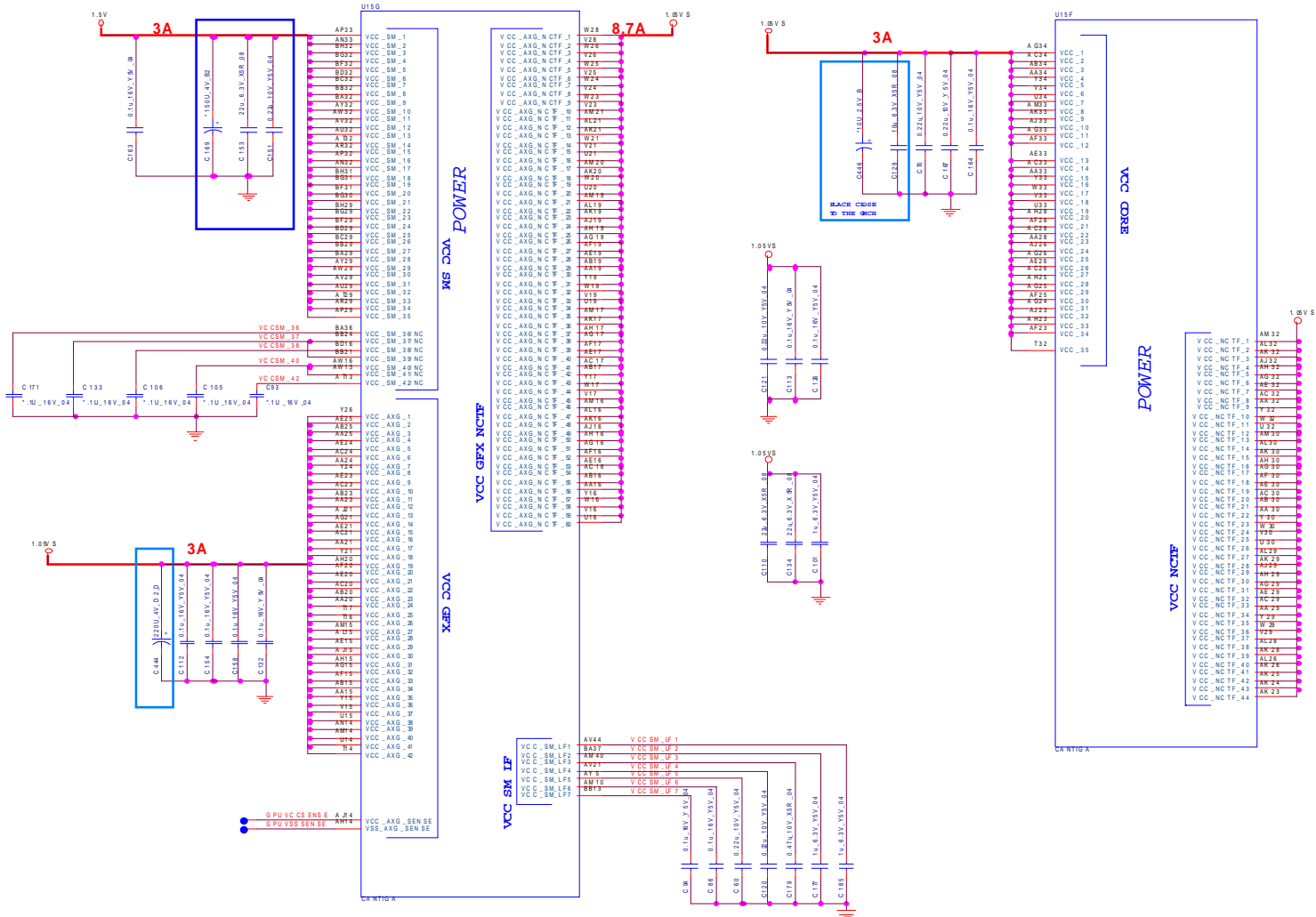
Sheet 6 of 38  
CANTIGA 2/7,  
Graphics



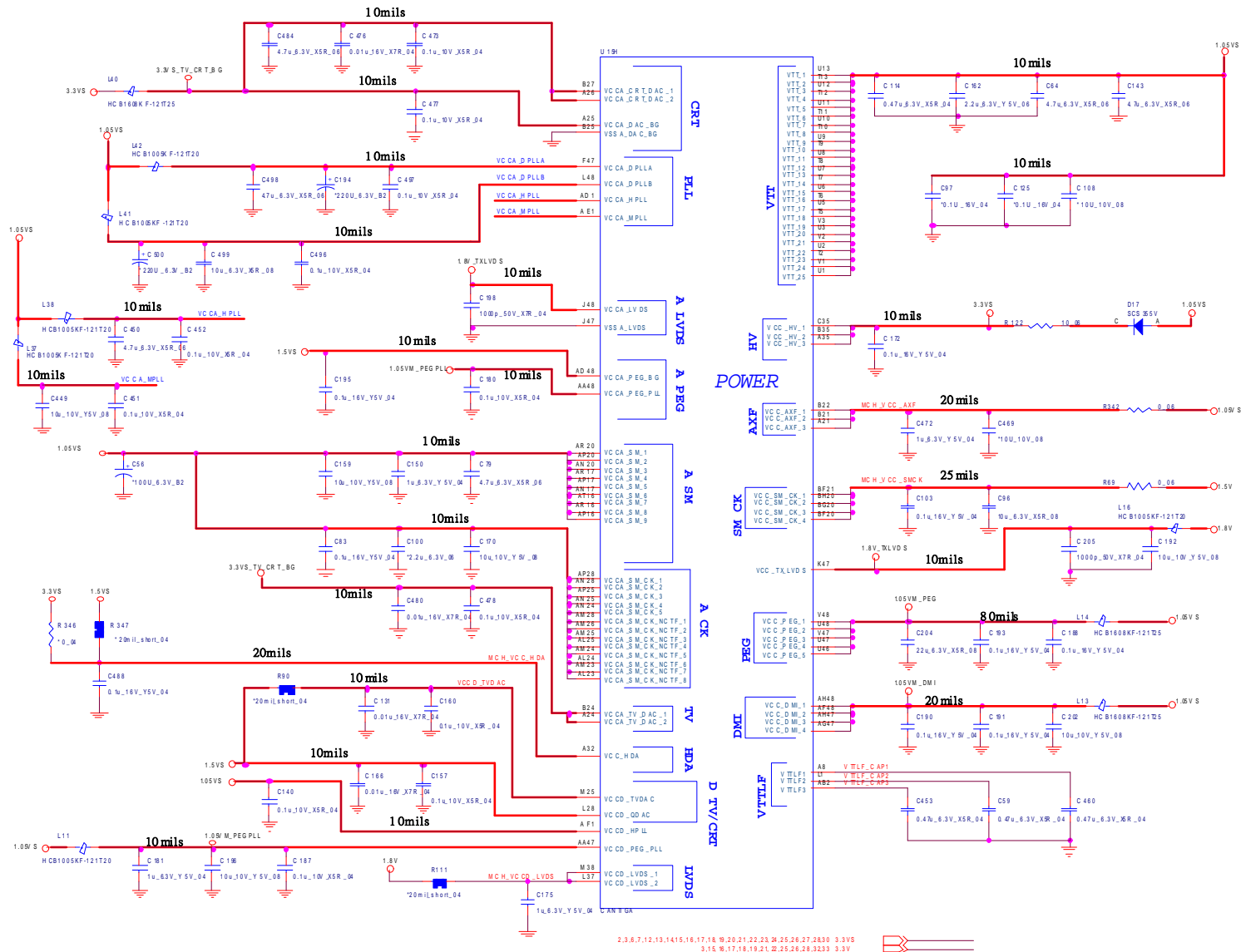




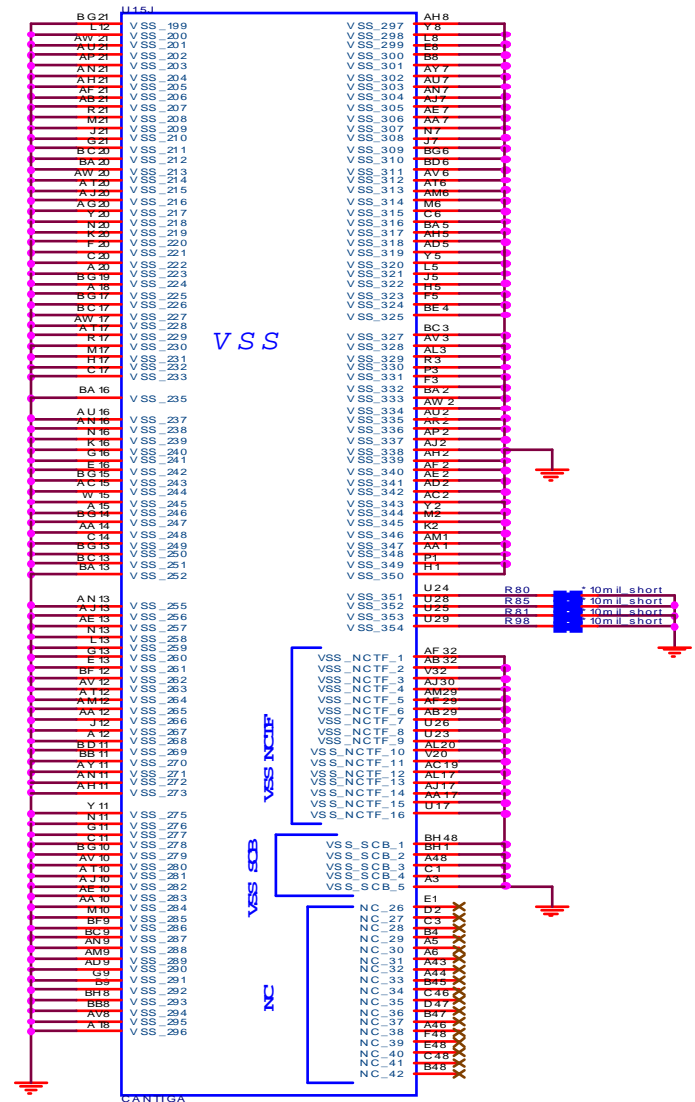
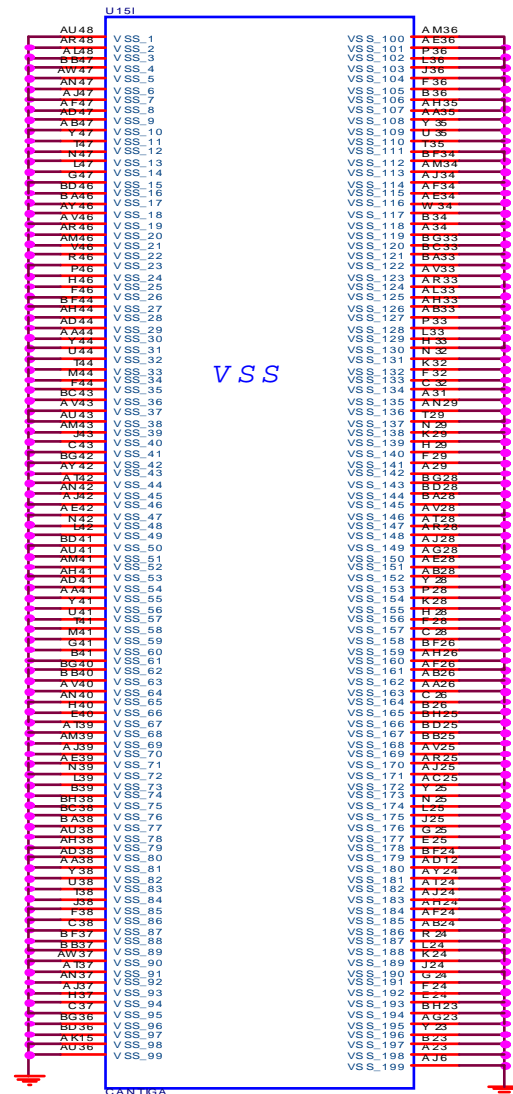
# CANTIGA 5/7



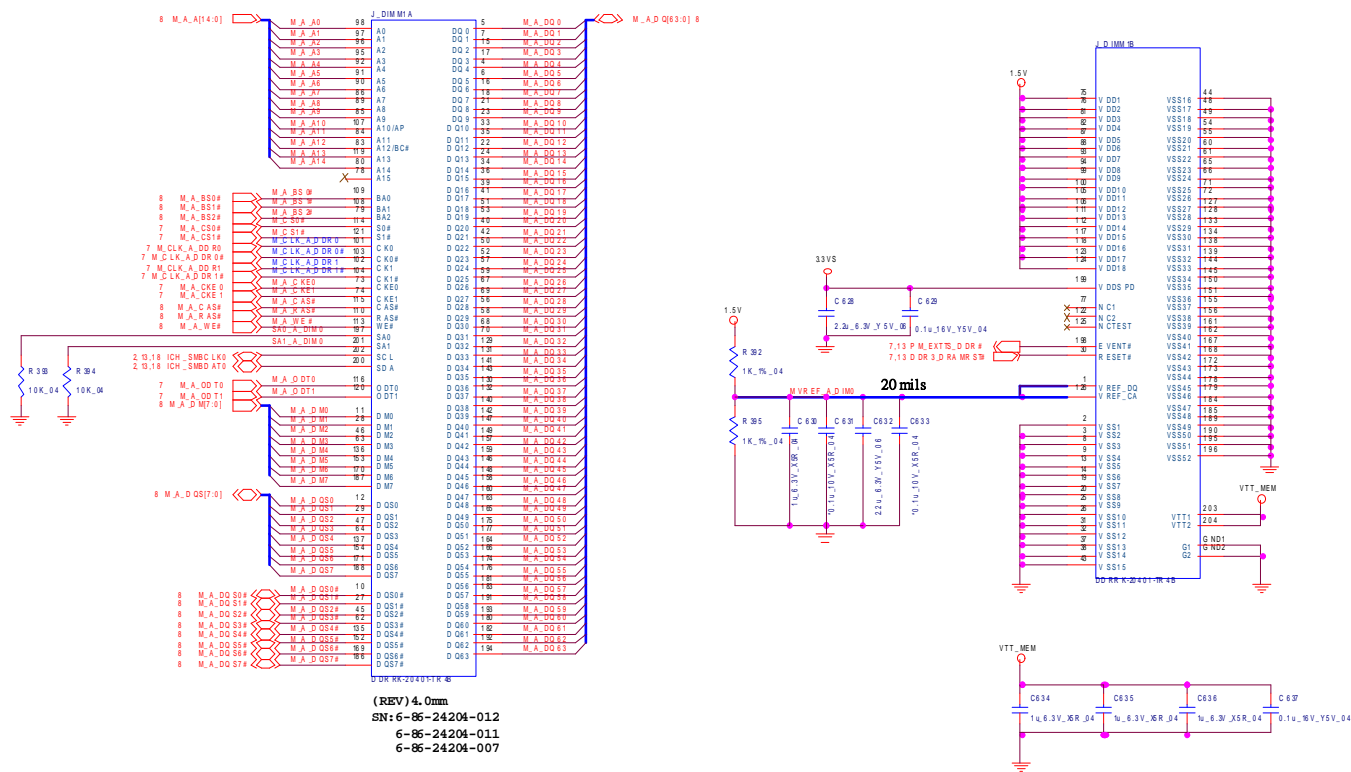
# CANTIGA 6/7



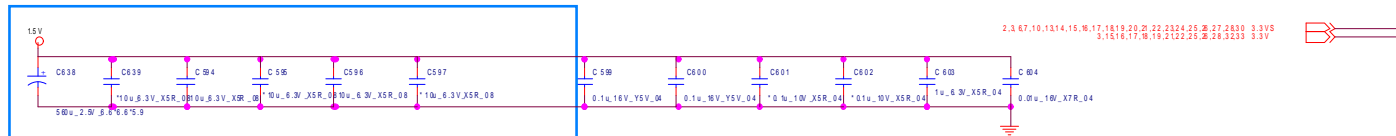
# CANTIGA 7/7



# DDRIII SO-DIMM A



For C5100 (Cost down)



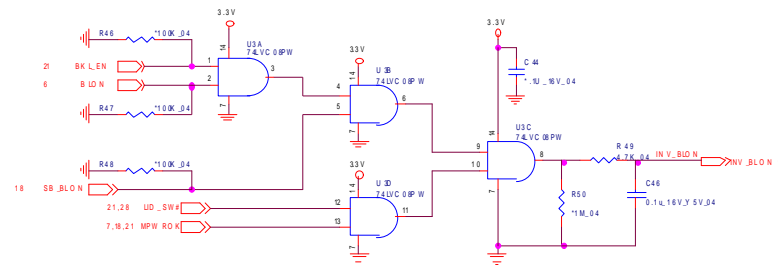




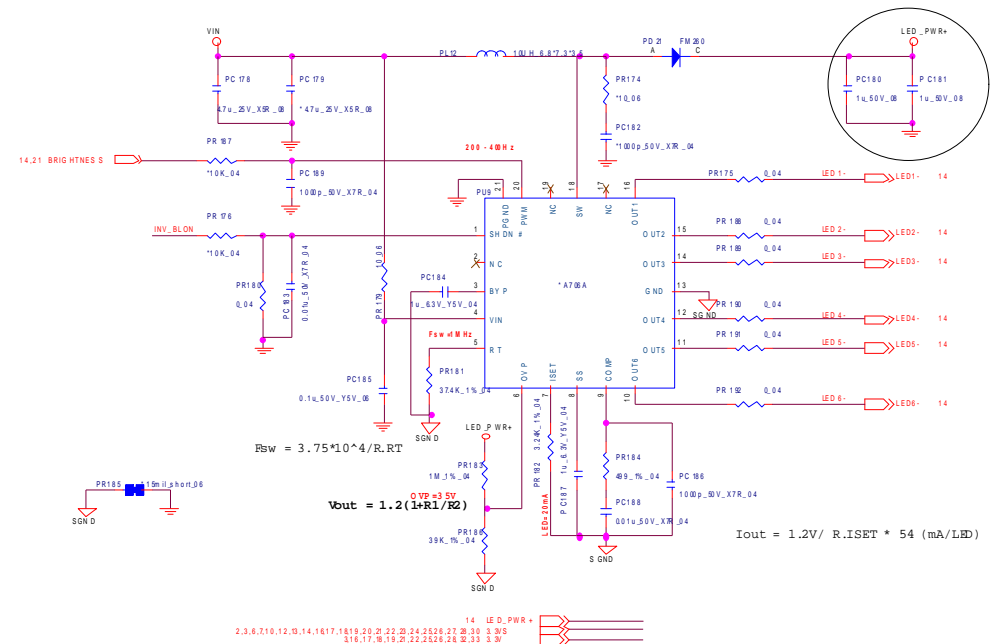


# Inverter, Bluetooth, Fan

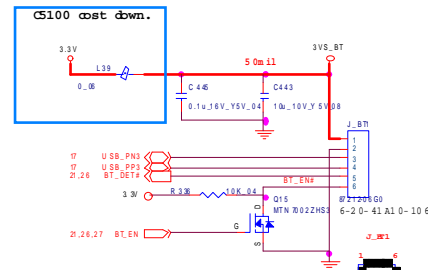
## INVERTER CONNECTOR



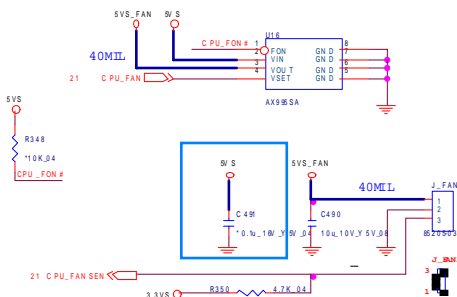
## LED PANEL BACKLIGHT DRIVER

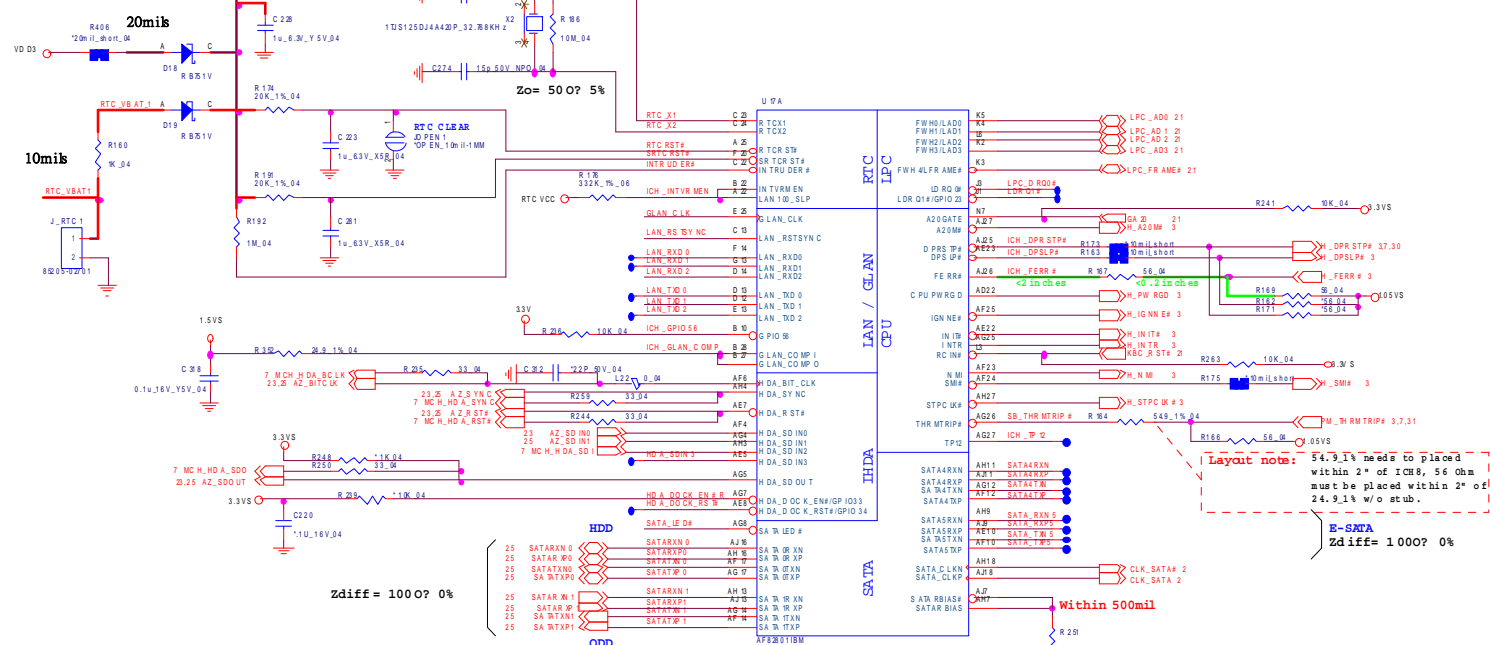


## Bluetooth

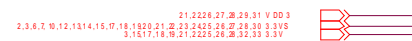


## FAN CONTROL

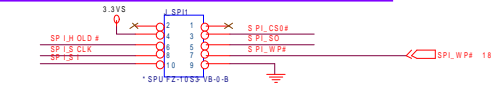
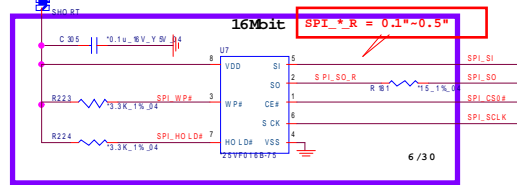
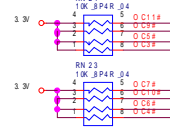
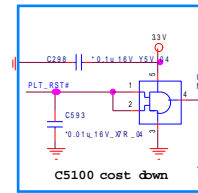




Year	Total (thousands)	Male (thousands)
1990	5,000	3,000
1991	5,200	3,200
1992	5,400	3,400
1993	5,600	3,600
1994	5,800	3,800
1995	6,000	4,000
1996	6,200	4,200
1997	6,400	4,400
1998	6,600	4,600
1999	6,800	4,800
2000	8,500	6,000

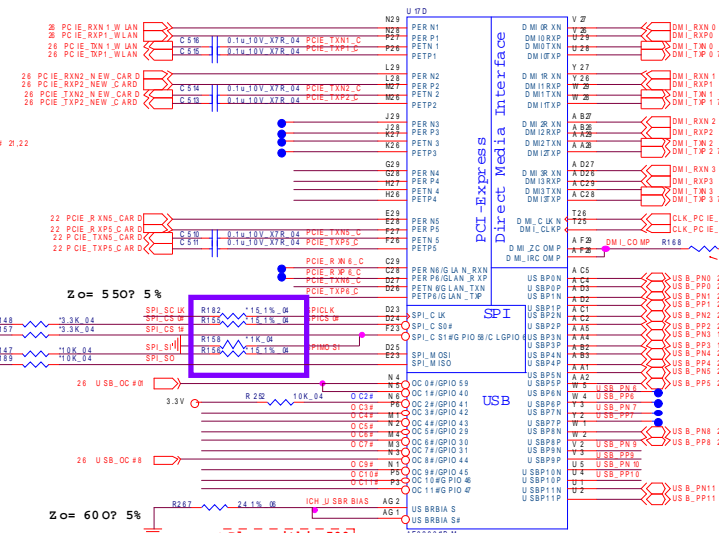


# ICH9M 2/4, PCI, USB



Boot BIOS select			
	Strap	PCI_GNT#0	SPI_CS#1
FWH(default)	11	R264 un-stuff	R158 un-stuff
PCI	10	R264 un-stuff	R158 stuff
SPI	01	R264 stuff	R158 un-stuff

PCIRST#: LAN, Cardbus, KBC  
PLT\_RST#: N/B, IDE, FWH  
BUF\_PLT\_RST#: NEW CARD, MINI CARD

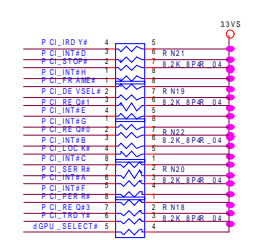
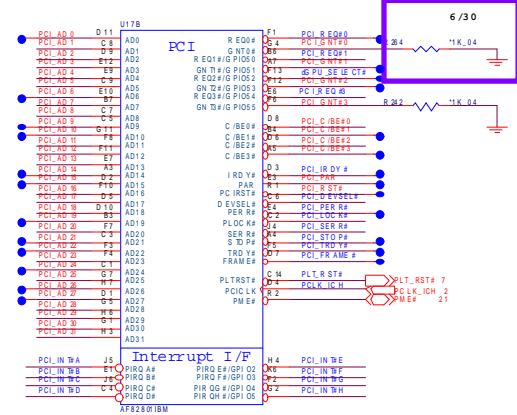


Zo = 550? 5%

Place within 500 mils of ICH

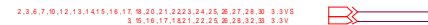
Zdi ff= 900? 5%

- USB0: PORT0
- USB1: PORT1
- USB2: 3G
- USB3: Bluetooth
- USB4: Mini Card
- USB5: CD
- USB6: NC
- USB7: NC
- USB8: New card
- USB9: NC
- USB10: NC
- USB11: PORT2



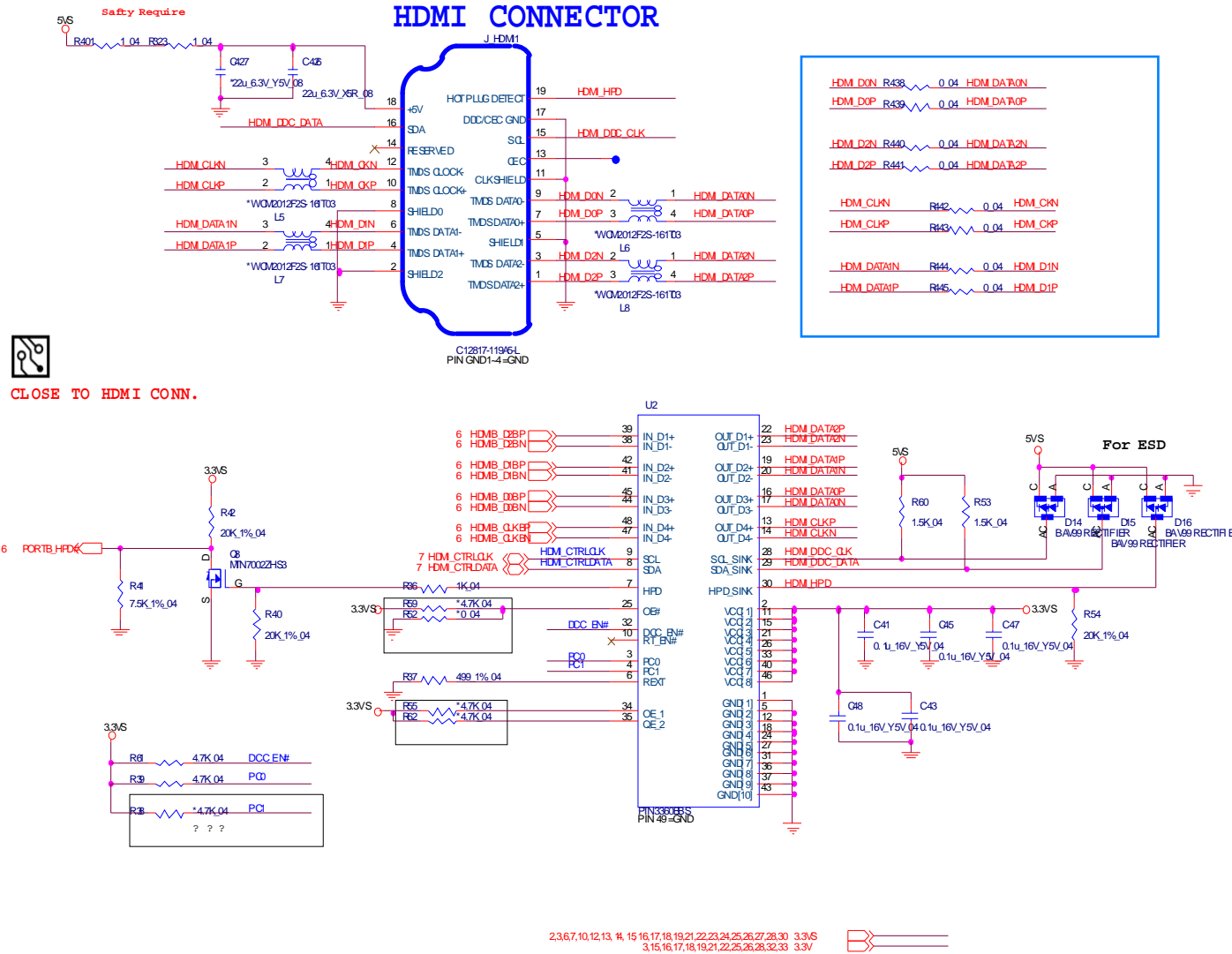
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3,15,16,18,19,21,22,25,26,28,32,33,35





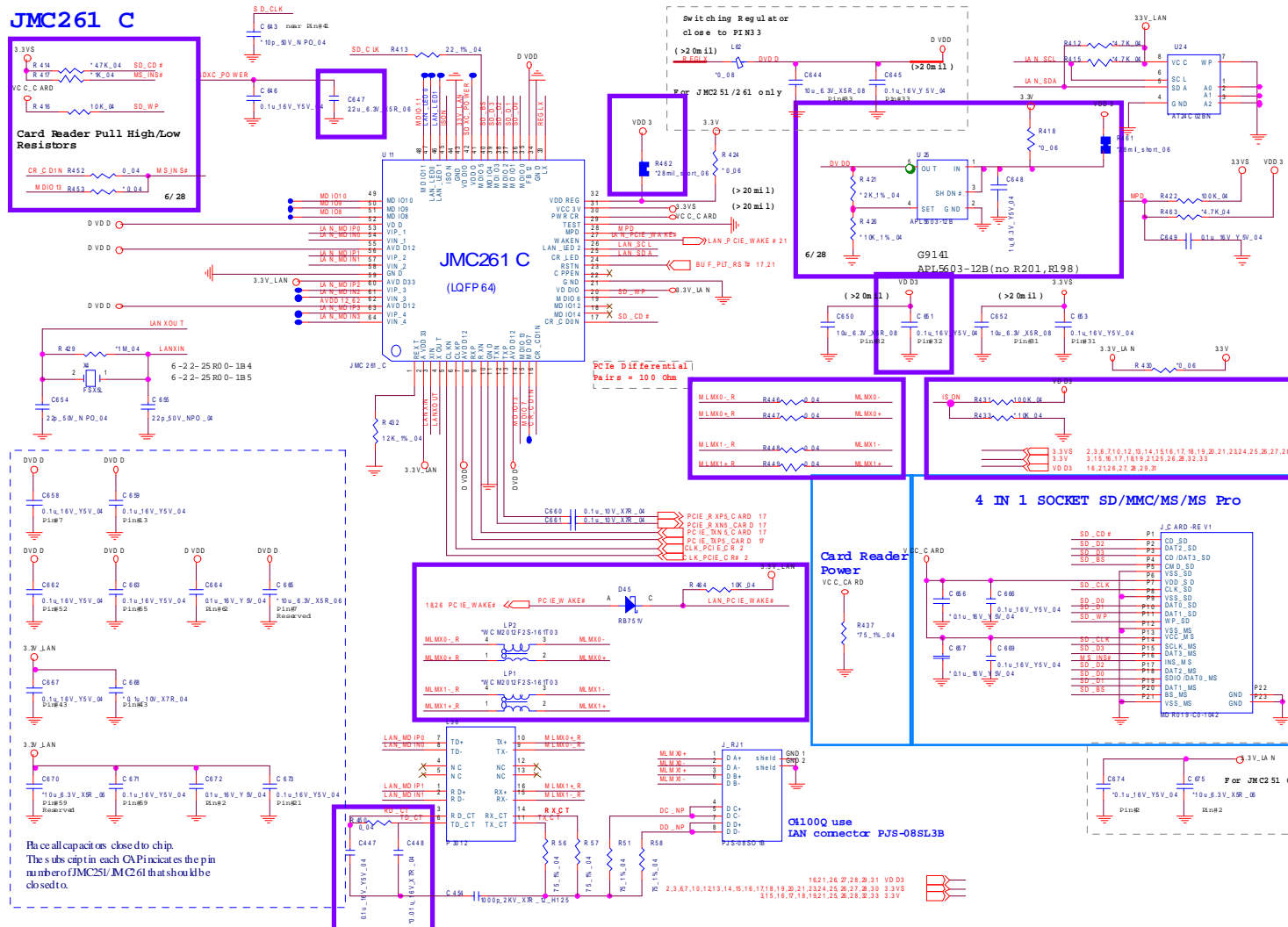
## HDMI

## HDMI





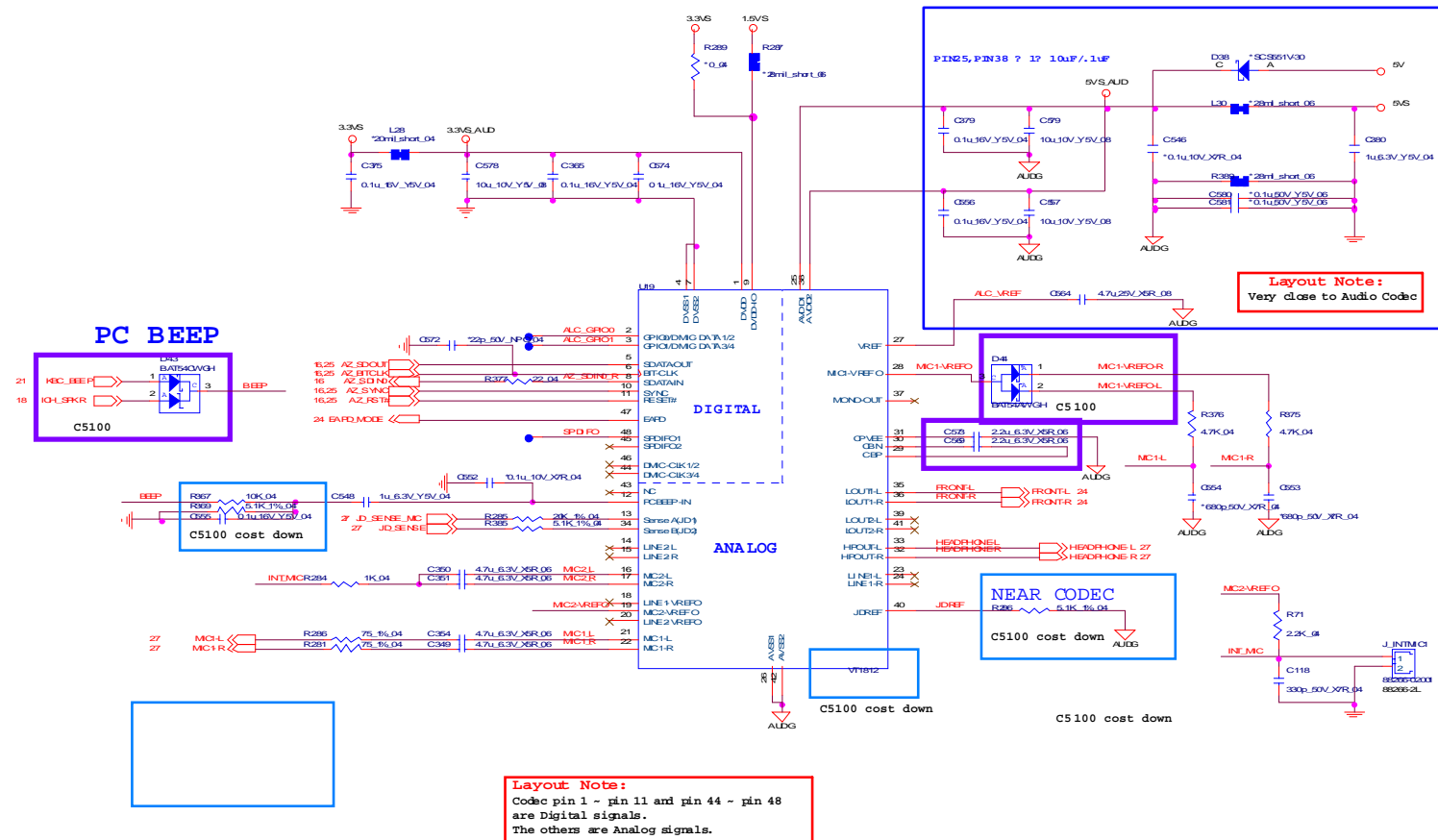
# Card Reader/LAN JMB261C





# Audio Codec VT1812

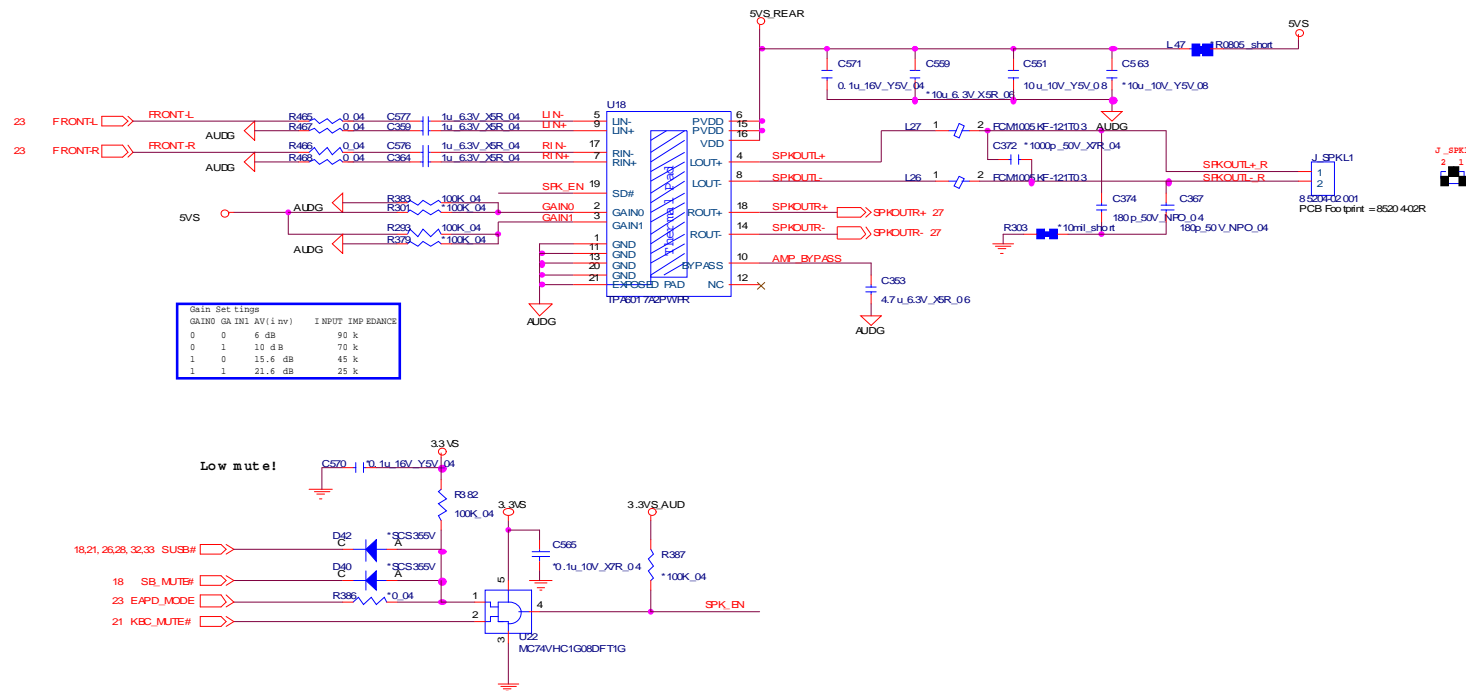
CODEC ( VT1812 )



2,3,6,7,10,12,13,14,15,16,17,18,19,20,21,22,24,25,26,27,28,30 3.3V  
3,15,16,17,18,19,21,22,25,26,28,32,33 3.3V

# Audio AMP

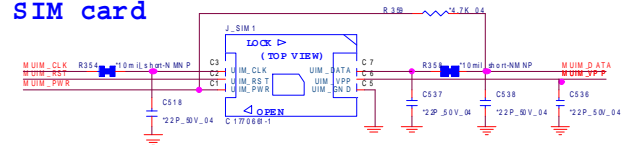
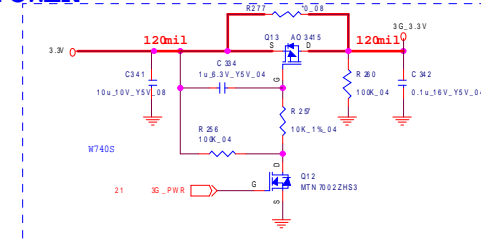
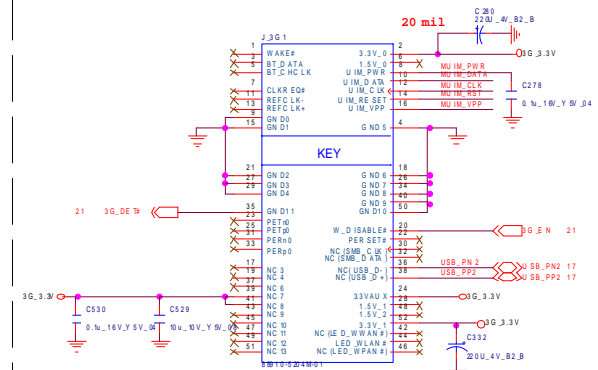
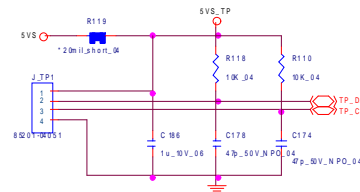
## AMP (TPA6017 or N7010)



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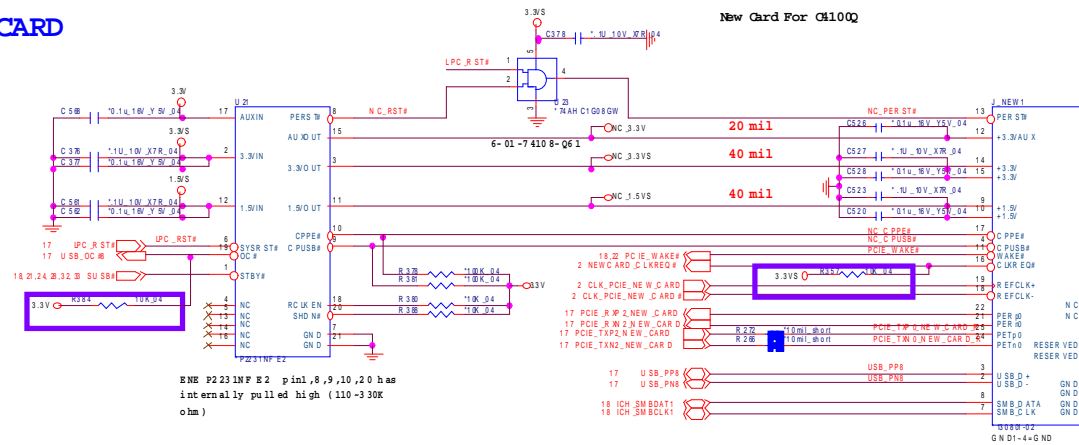


23,6,7,10,12,13,14,15,16,17,18,19,20,21,22,23,24,26,27,28,30 3.3VS  
3,15,16,17,18,19,21,22,26,28,32,33 3.3V

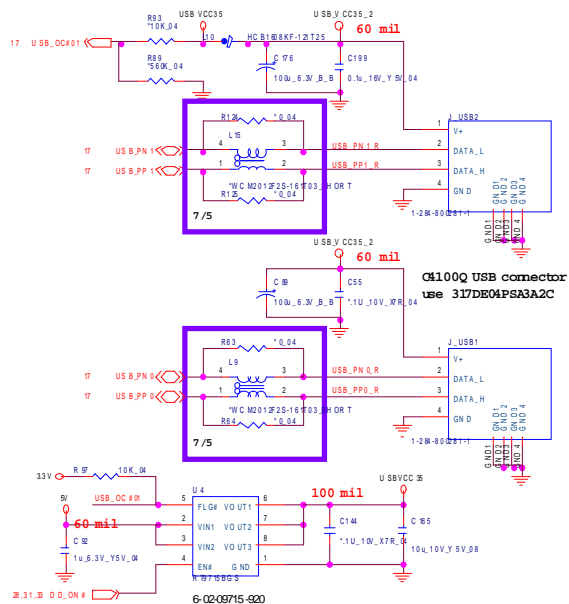


## New Card, USB, Mini PCIE

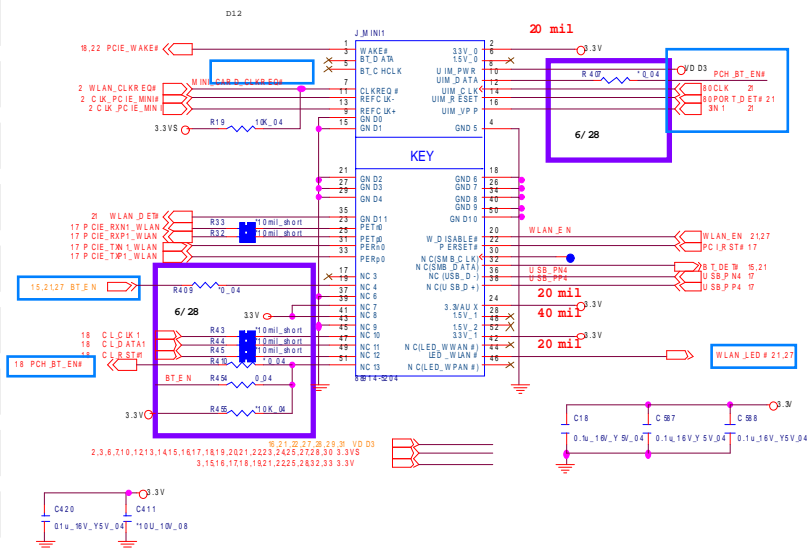
## NEW CARD



USB PORT

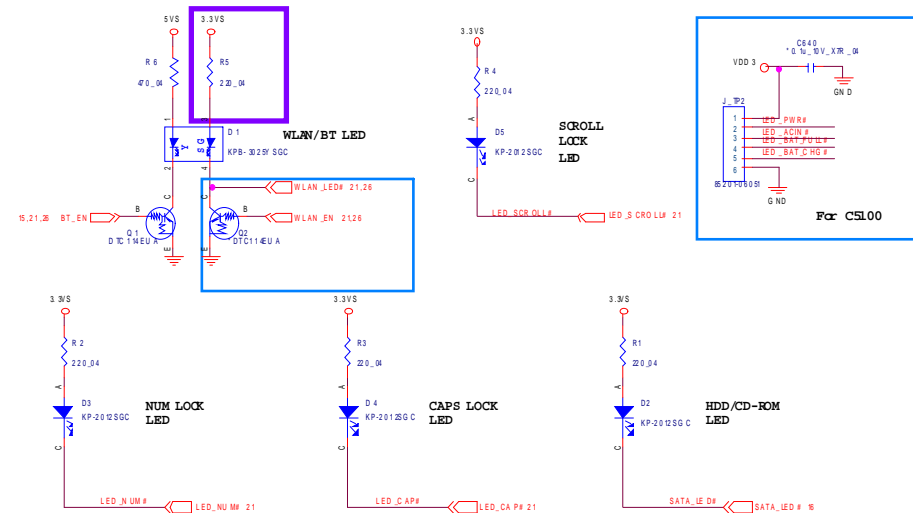
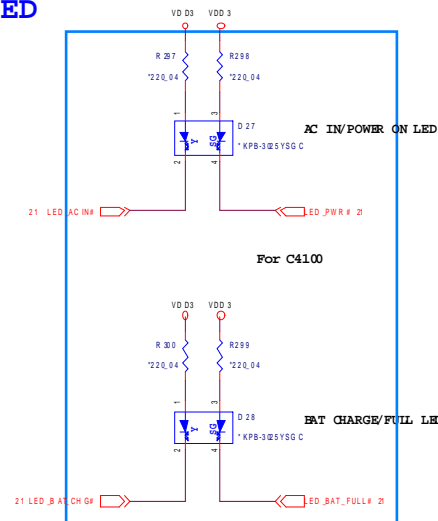


## MINI CARD

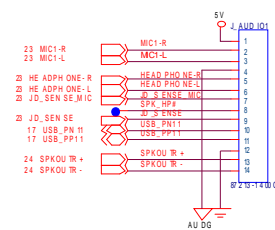


# LED, CCD, Audio Conn

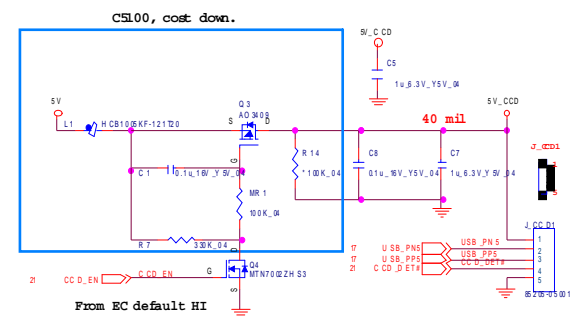
## LED



## Audio/USB CONN



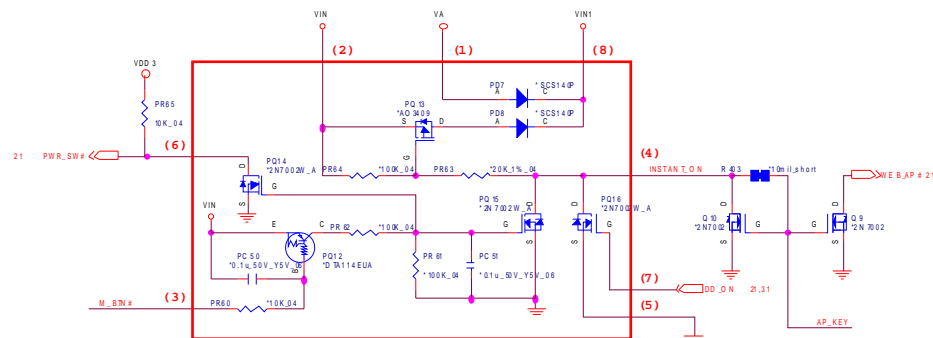
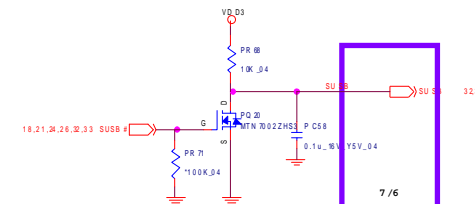
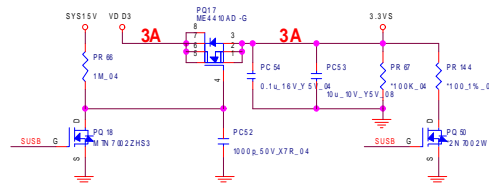
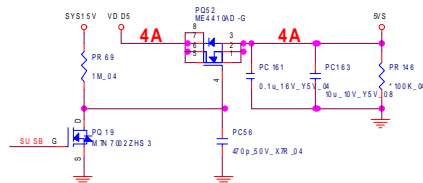
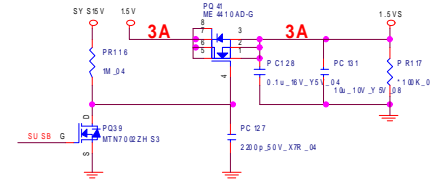
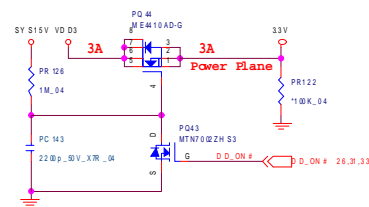
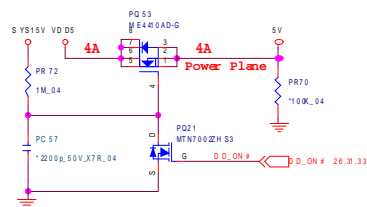
## CCD



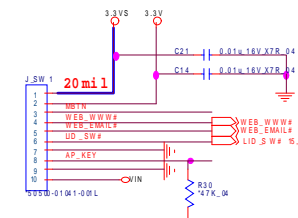
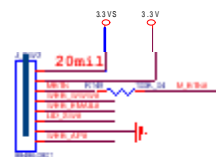
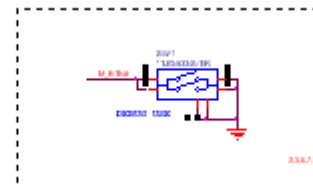
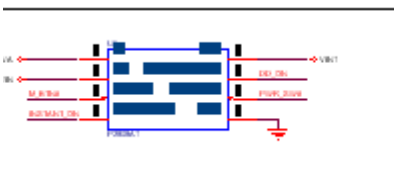
16, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31 VDD 3  
23, 26, 7, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 3.3V  
3, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30 3.3V

# System Power, PWR SW

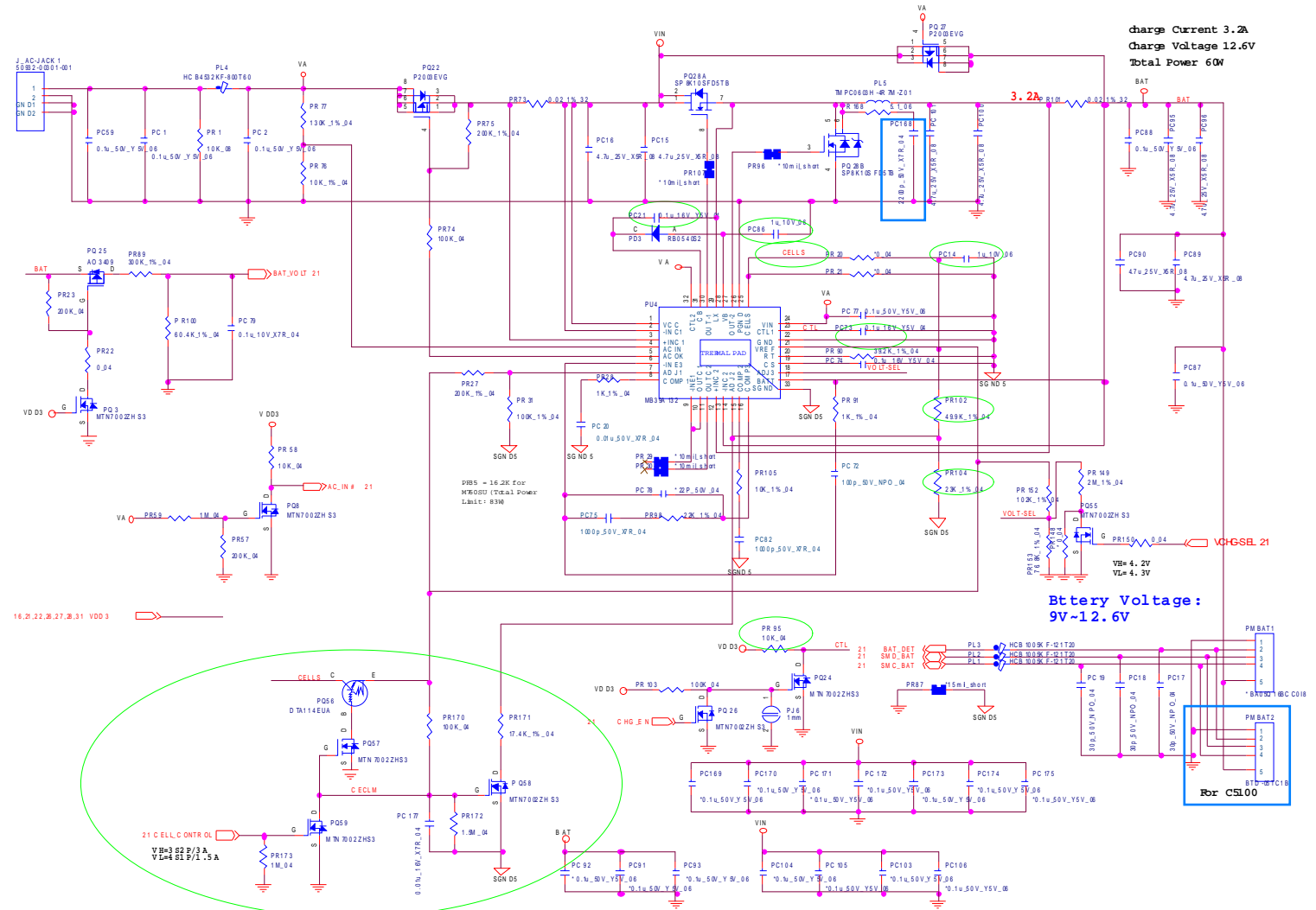
5V, 3.3V, 5VS, 3.3VS, 1.5VS



## POWER SWITCH CONNECTER

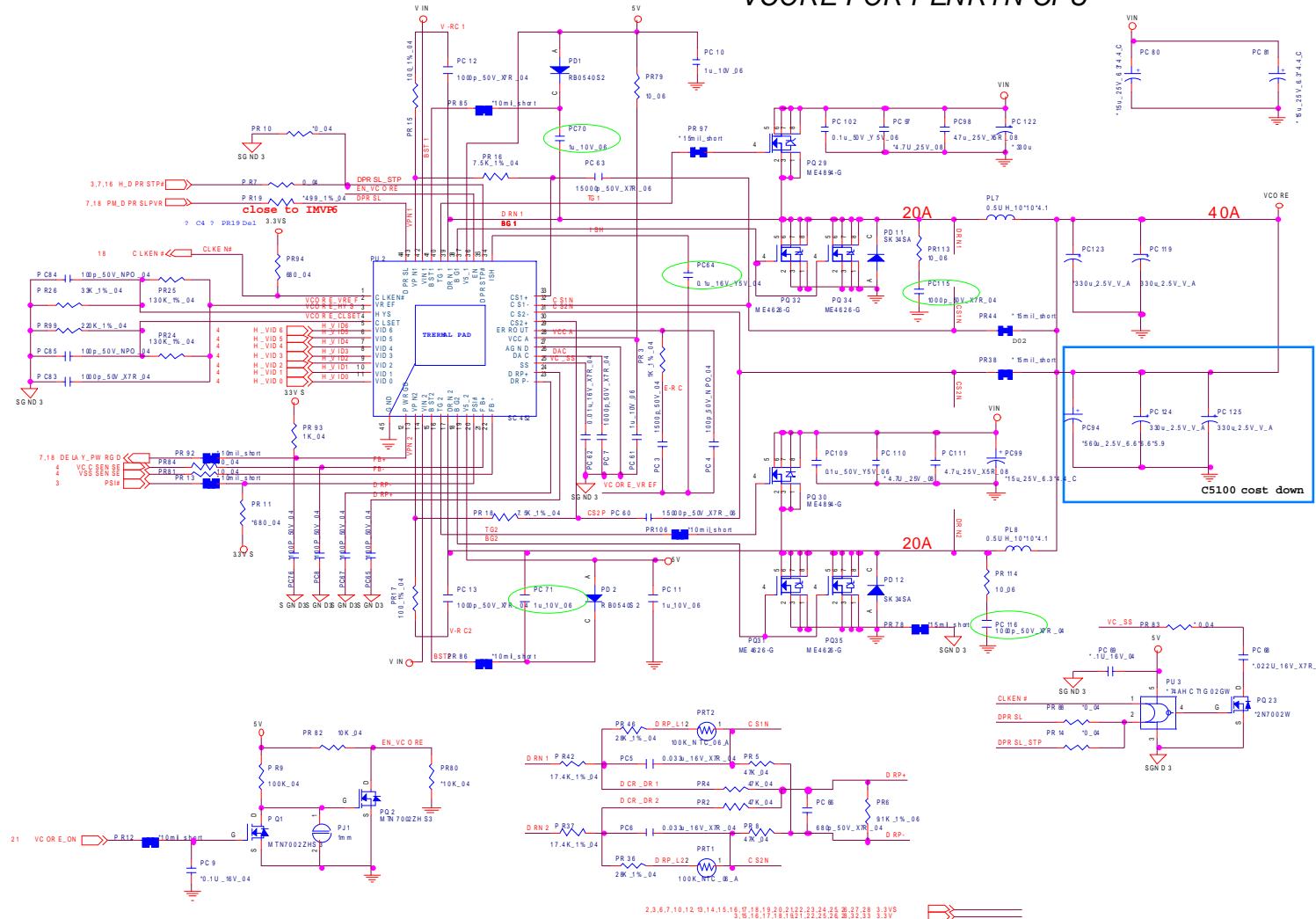


# AC\_In, Charger



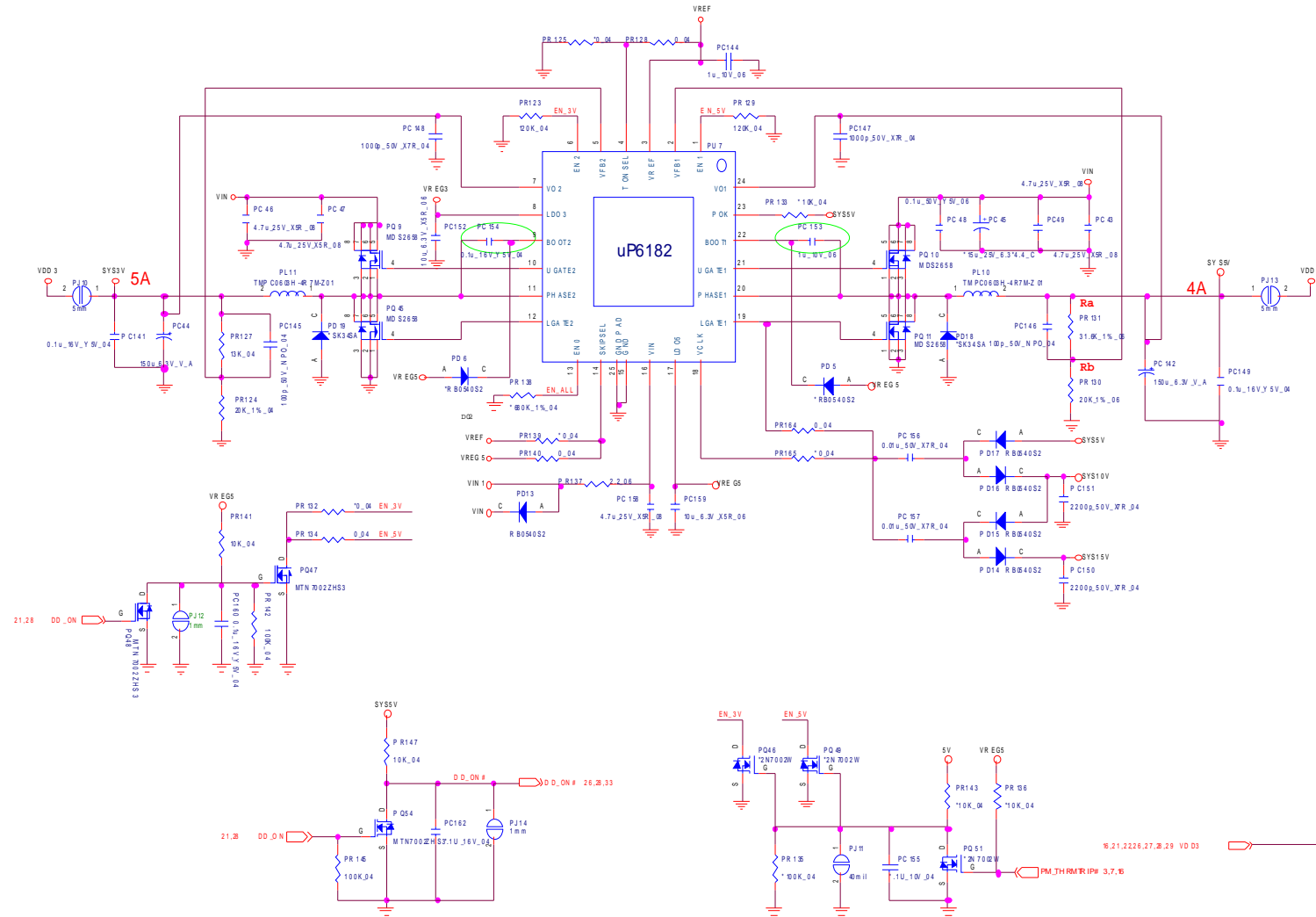
# VCORE

## VCORE FOR PENRYN CPU

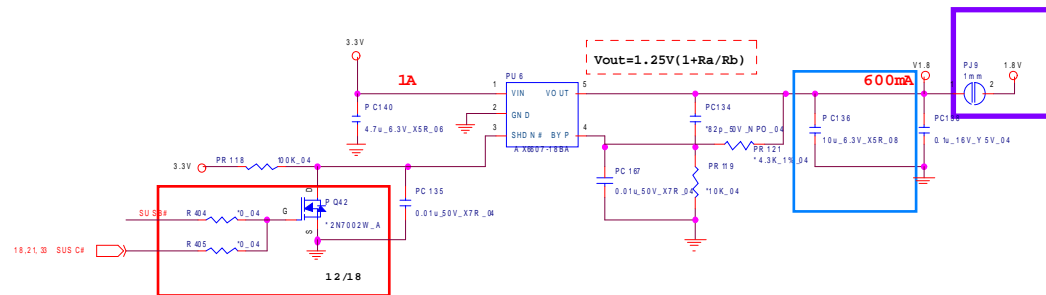
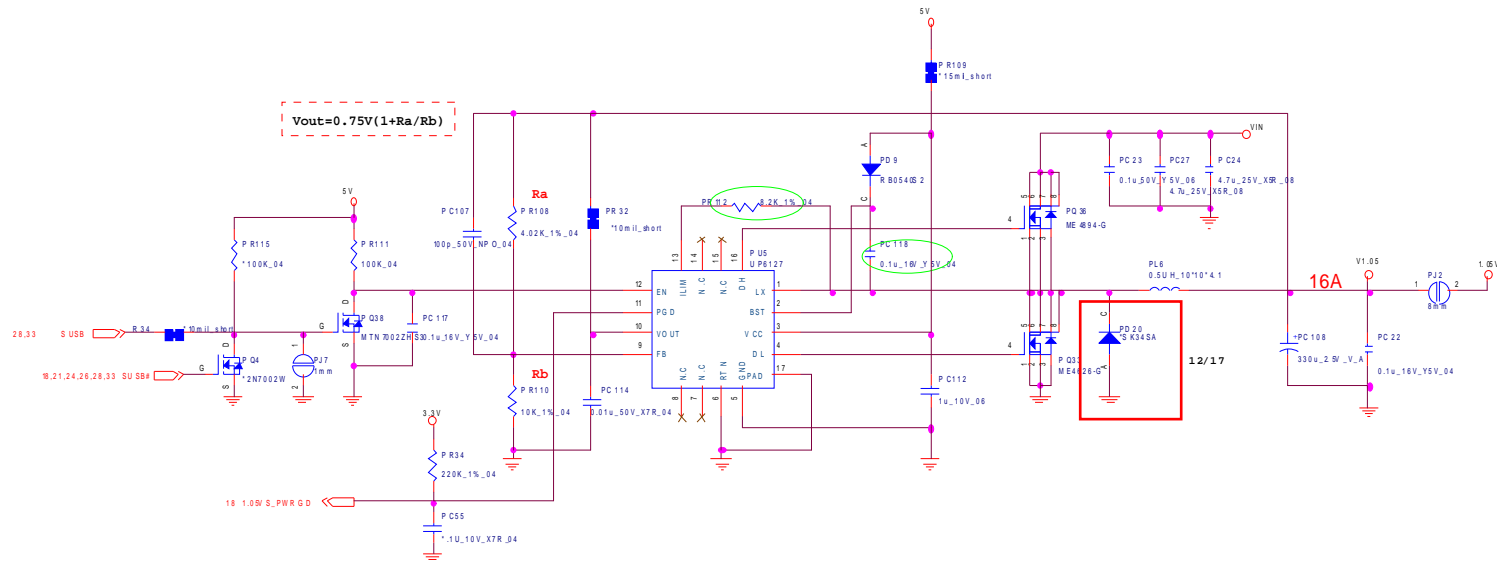




# VDD3, VDD5



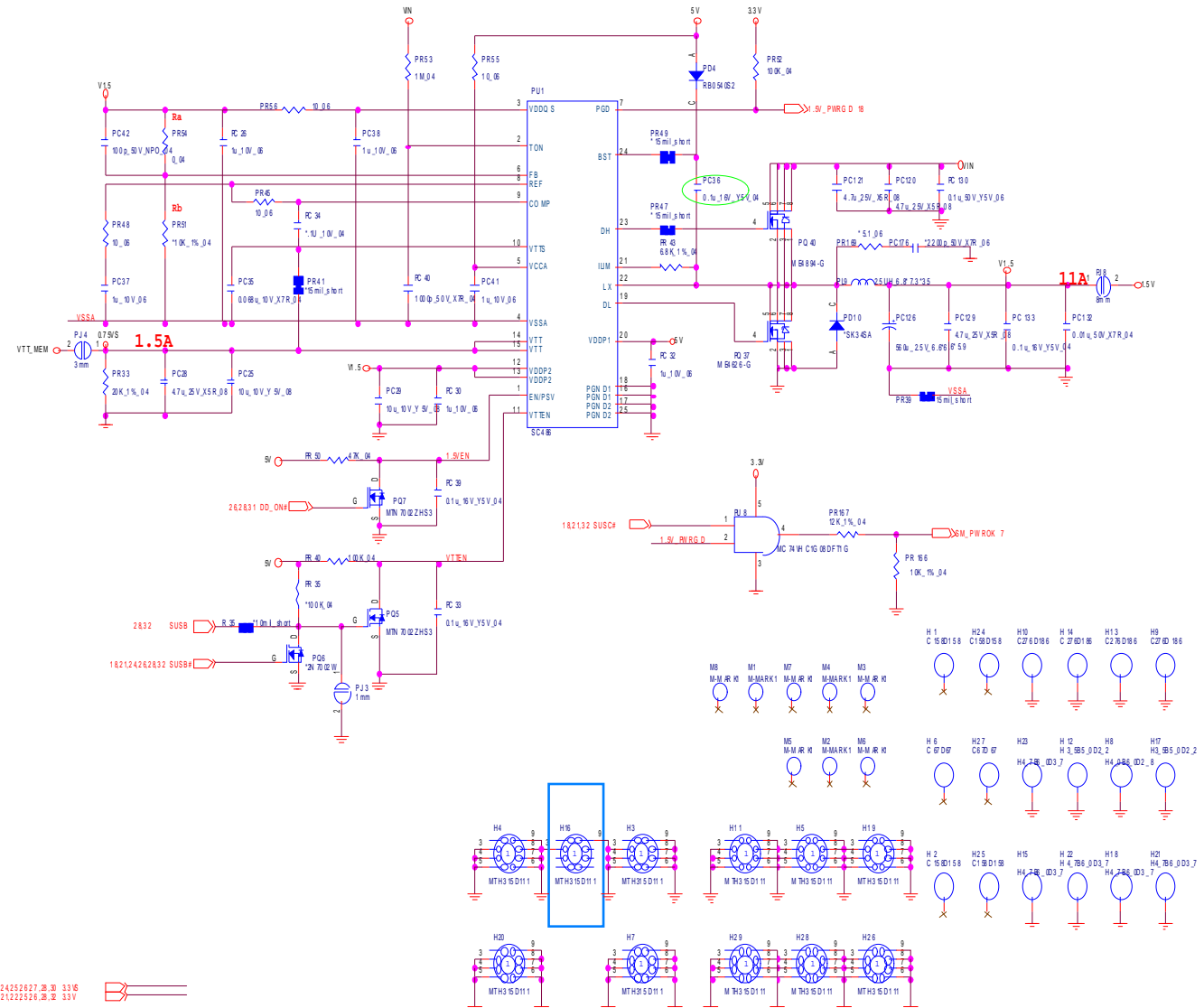
# 1.8V/1.05VS



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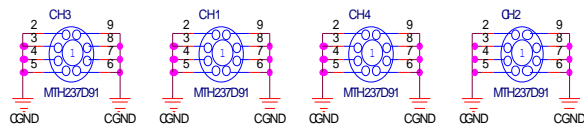
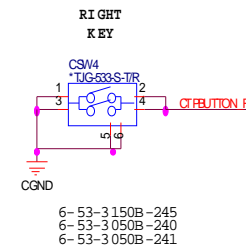
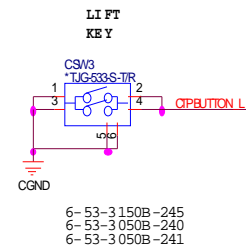
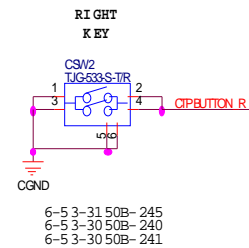
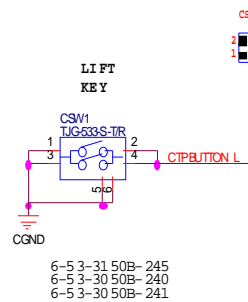
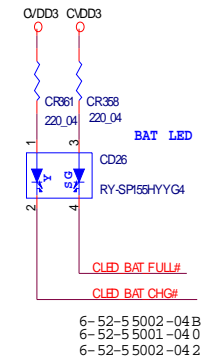
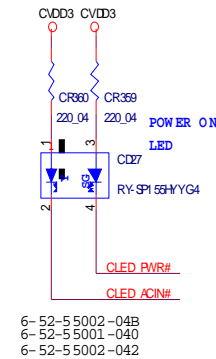
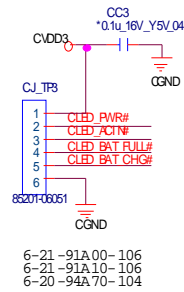
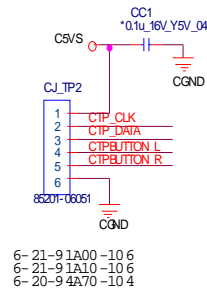
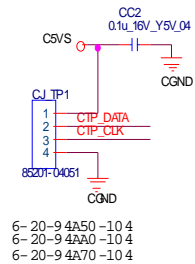


# 1.5V,0.75VS



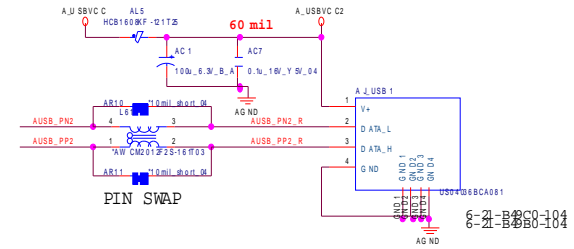
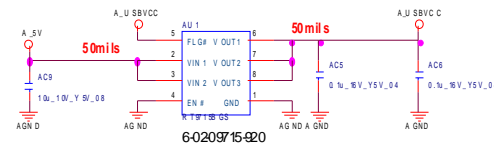
# Click Board

## CLICK BOARD

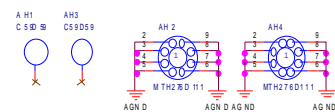
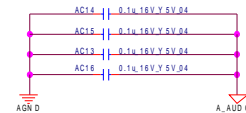
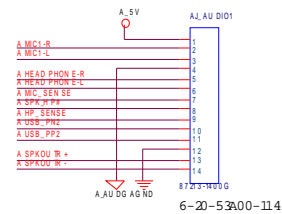


# Audio Board/USB

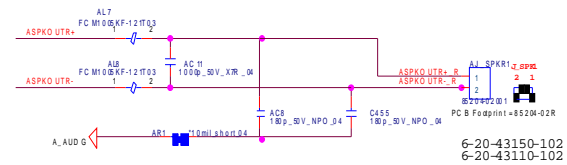
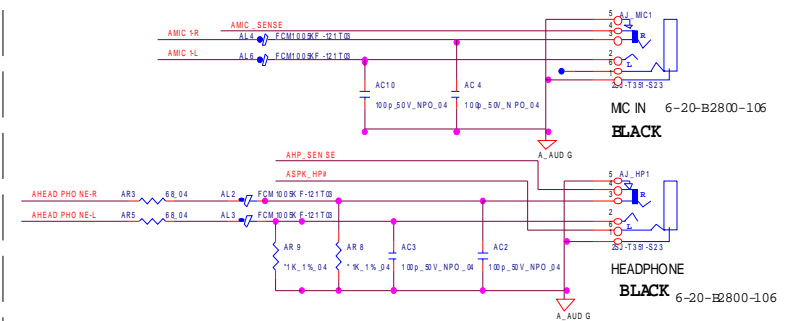
## USB PORT



## TO M/B

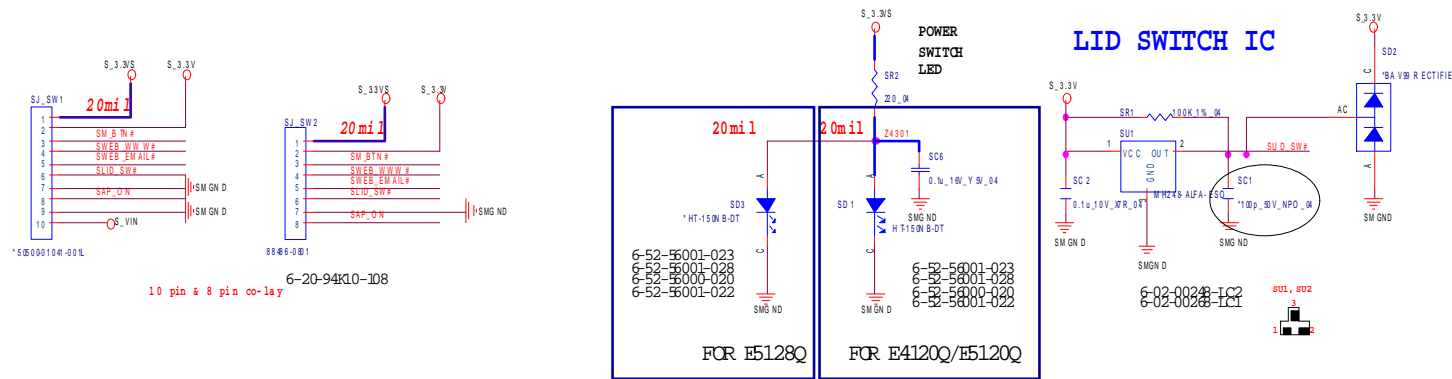


## AUDIO JACK



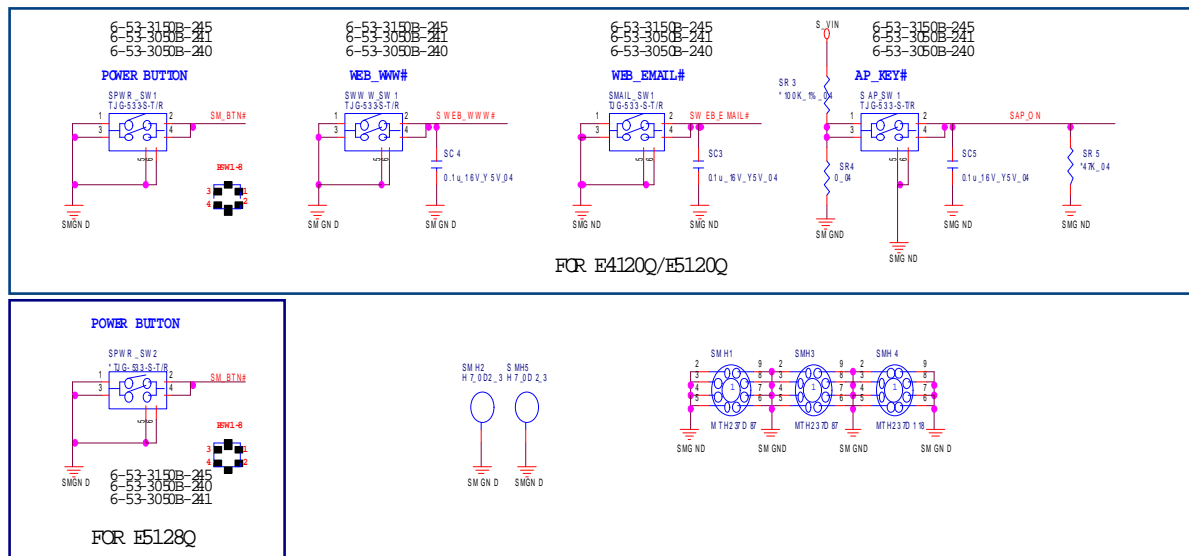
# Power Switch & Lid Board

## POWER SW & LED & HOT KEY



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Power Switch & Lid  
Board

## HOT KEY



## External Odd Board

### ODD BOARD FOR E5120Q

