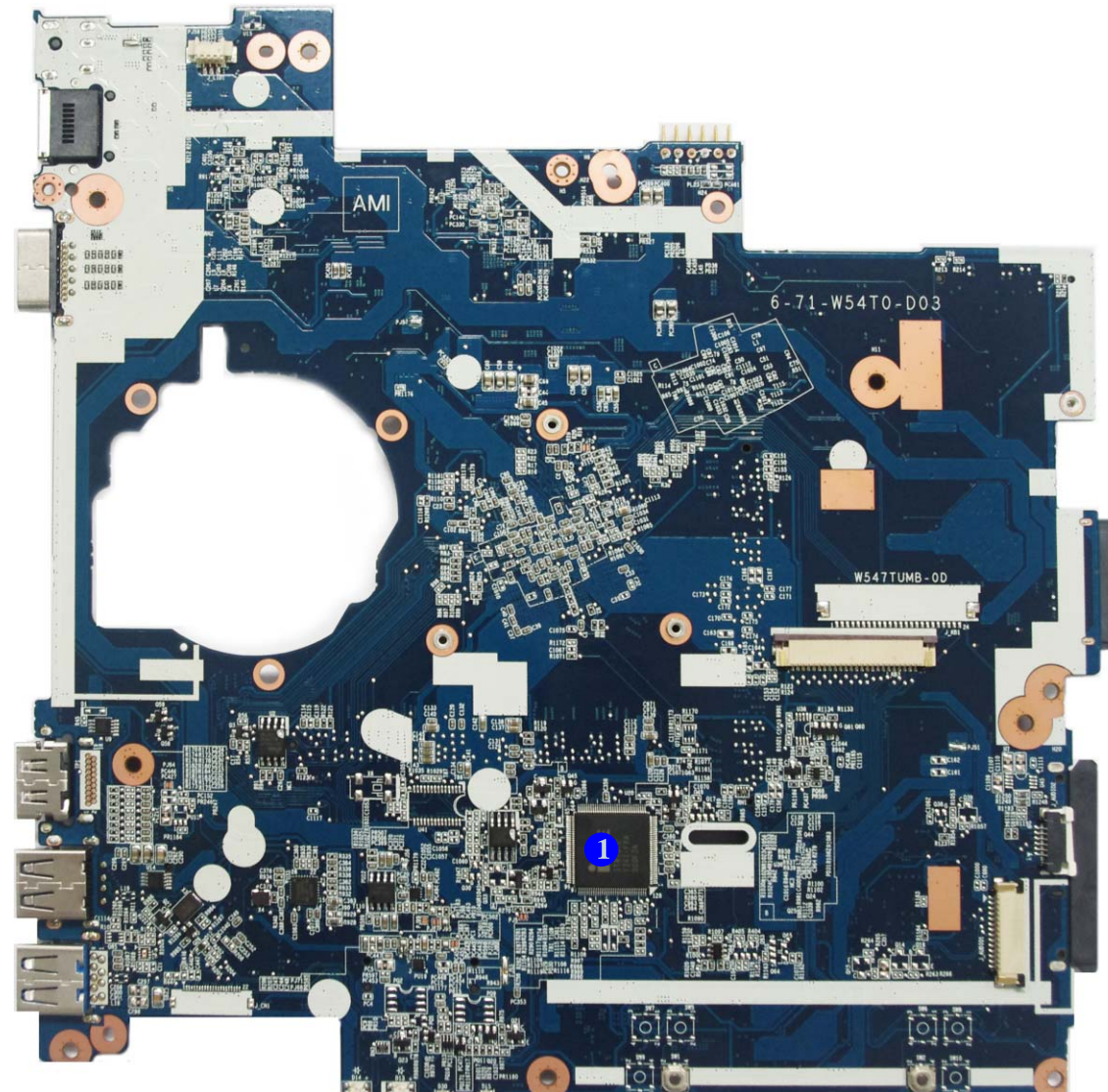


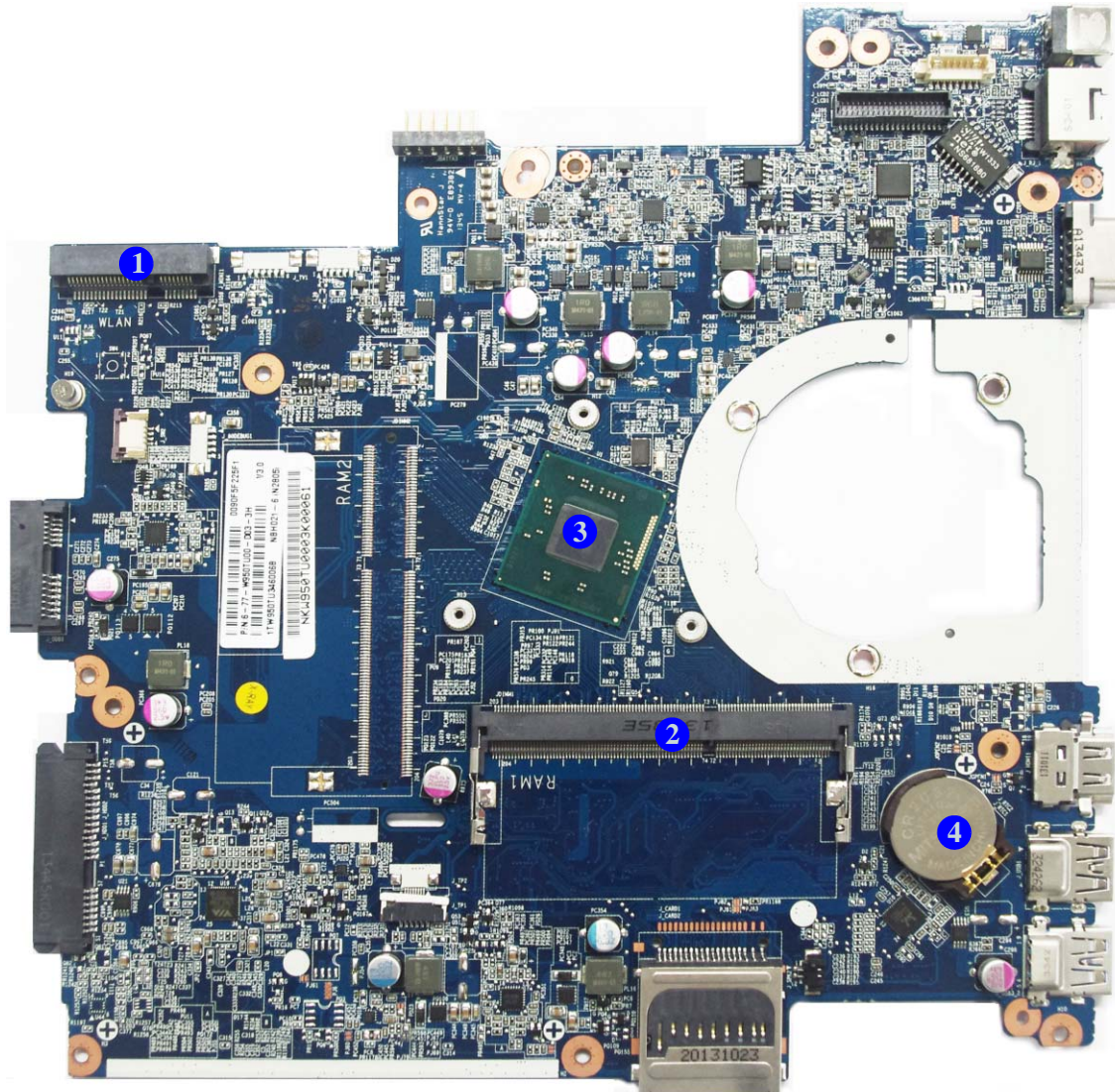
*Figure 7*  
**Mainboard Top  
Key Parts**

1. KBC-ITE IT8587

## Mainboard Overview - Top (Key Parts)



## Mainboard Overview - Bottom (Key Parts)



*Figure 8*  
**Mainboard Bottom  
Key Parts**

1. Mini-Card Connector
2. Memory Slots  
DDR3L SO-DIMM
3. CPU
4. CMOS Battery

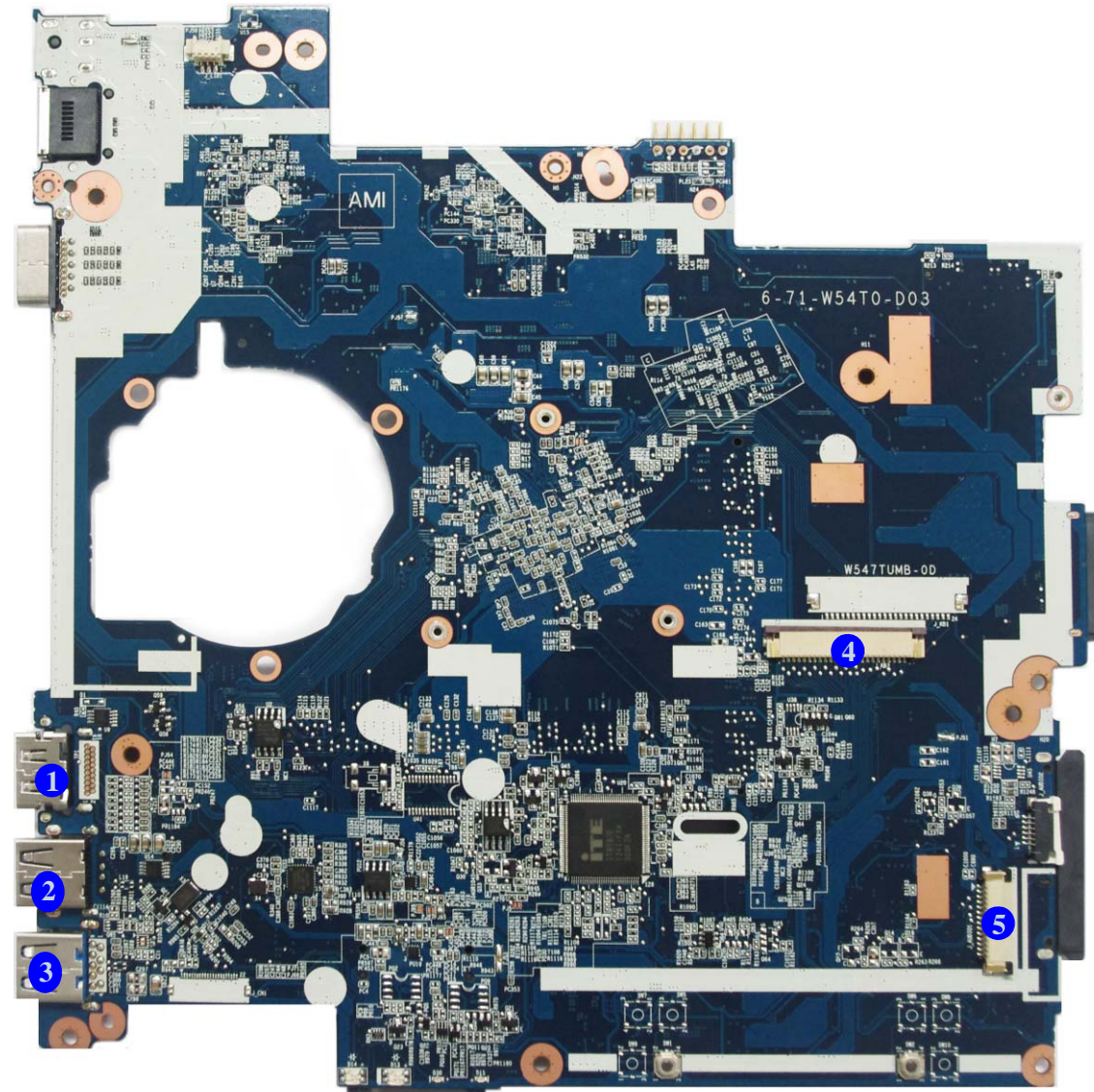


## Introduction

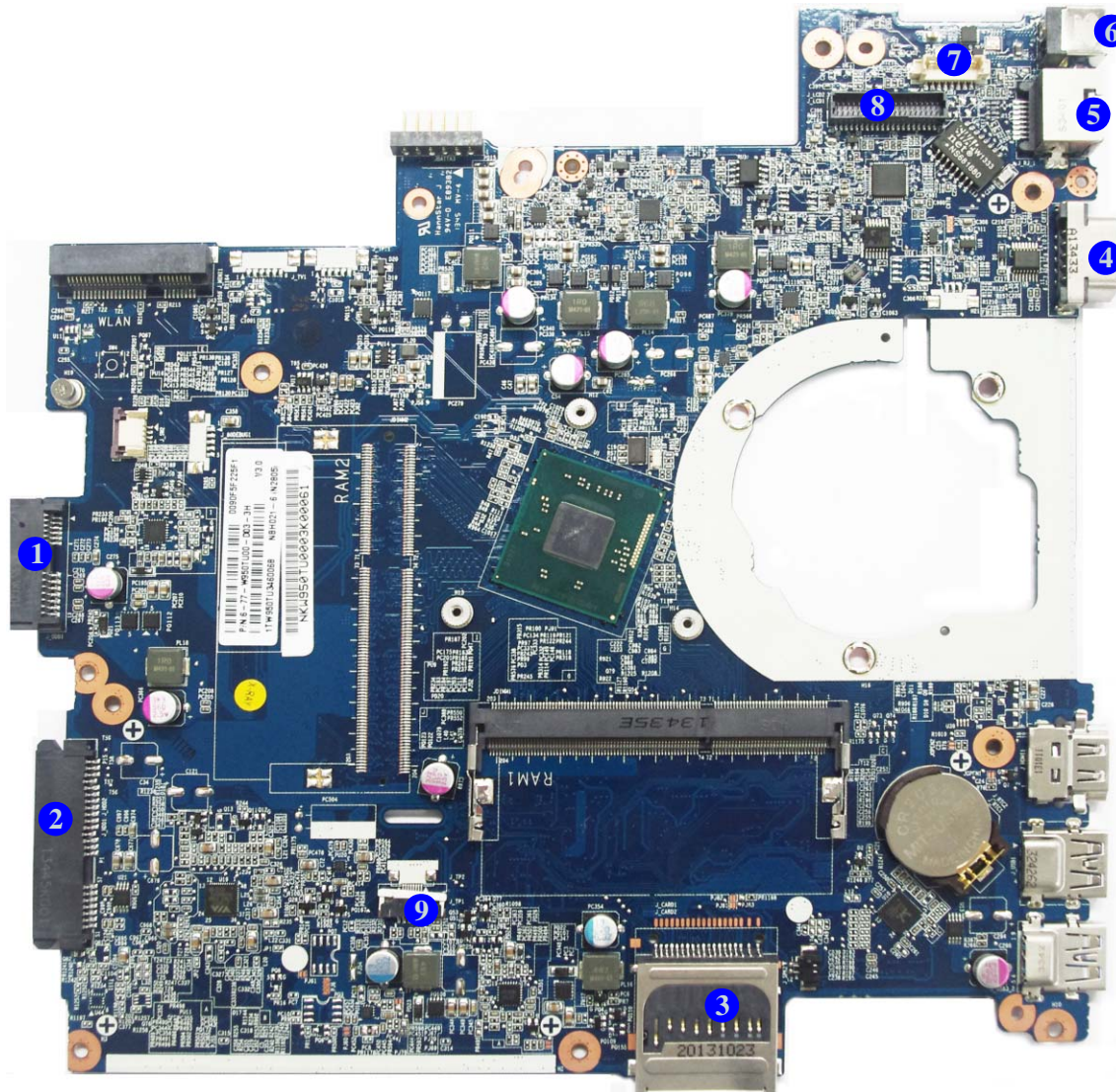
*Figure 9*  
**Mainboard Top  
Connectors**

1. HDMI-Out Port
2. USB Port 2.0
3. USB Port 3.0
4. Keyboard Cable Connector
5. Audio Board Cable Connector

## Mainboard Overview - Top (Connectors)



## Mainboard Overview - Bottom (Connectors)



*Figure 10*  
**Mainboard Bottom  
Connectors**

1. ODD Connector
2. HDD Connector
3. Multi-in-1 Card Reader
4. External Monitor Port
5. RJ-45 LAN Jack
6. DC-In Jack
7. CCD Connector
8. LCD Cable Connector
9. Touchpad Connector

# Appendix B: Schematic Diagrams

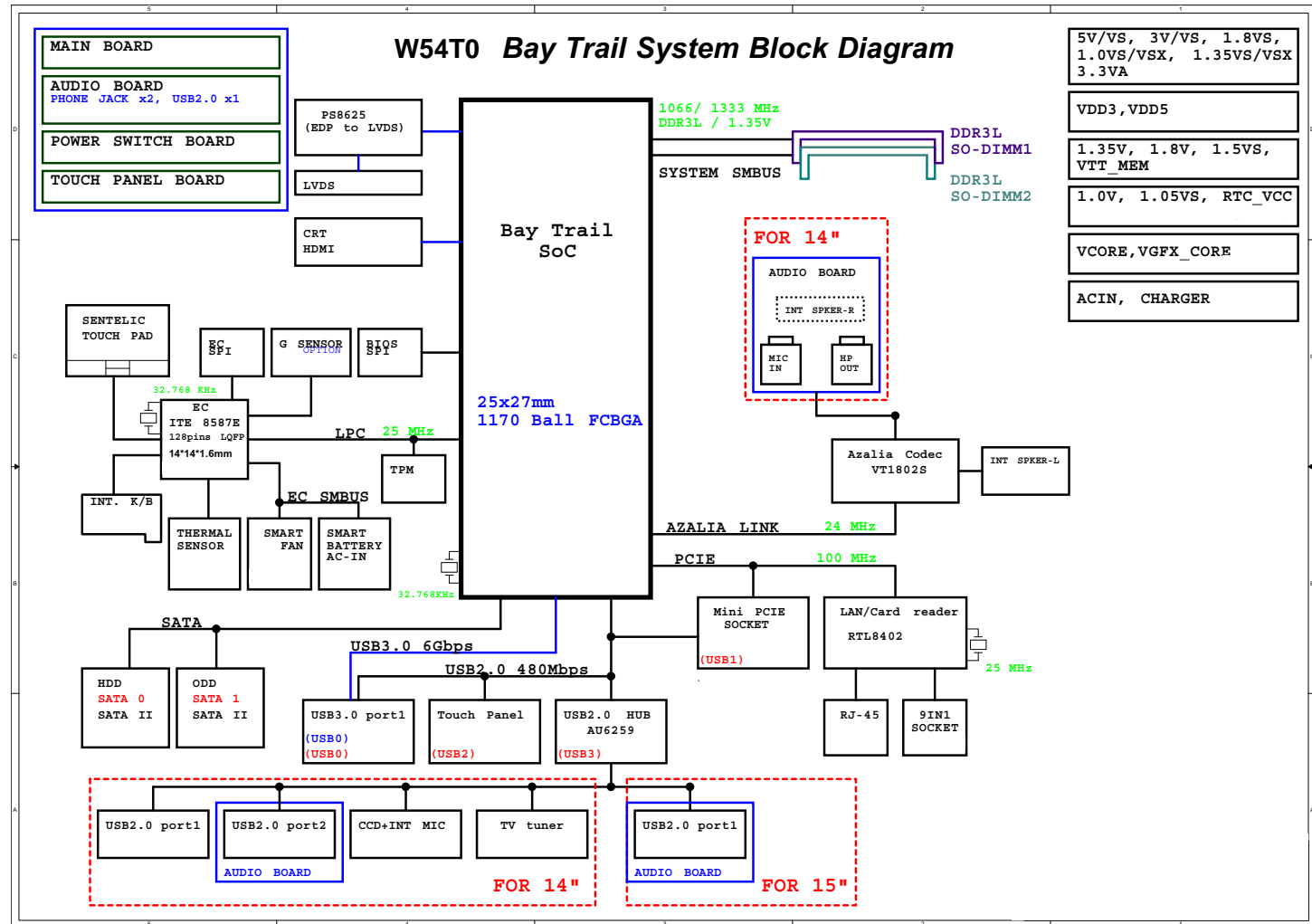
Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>Panel, CRT - Page B - 14</i>	<i>1.5VS, 1.5V, VTT_MEM - Page B - 26</i>
<i>Processor 1/8 - Page B - 3</i>	<i>HDMI - Page B - 15</i>	<i>1.0V, 1.05VS, 1.24V - Page B - 27</i>
<i>Processor 2/8 - Page B - 4</i>	<i>LAN, Card Reader - Page B - 16</i>	<i>VCore - Page B - 28</i>
<i>Processor 3/8 - Page B - 5</i>	<i>Mini Card - Page B - 17</i>	<i>AC IN, Charger - Page B - 29</i>
<i>Processor 4/8 - Page B - 6</i>	<i>HDD, ODD, LED, LID - Page B - 18</i>	<i>Audio Board - Page B - 30</i>
<i>Processor 5/8 - Page B - 7</i>	<i>USB, Touch Panel - Page B - 19</i>	<i>TPM - Page B - 31</i>
<i>Processor 6/8 - Page B - 8</i>	<i>Conn, CCD, Fan, Click, TV - Page B - 20</i>	<i>SW Board - Page B - 32</i>
<i>Processor 7/8 - Page B - 9</i>	<i>Audio Codec - Page B - 21</i>	<i>Touch Panel Board - Page B - 33</i>
<i>Processor 8/8 - Page B - 10</i>	<i>KBC-ITE IT8587E - Page B - 22</i>	<i>Level Shifter 1 - Page B - 34</i>
<i>DDR3 SO-DIMM_0 - Page B - 11</i>	<i>AU6259 - Page B - 23</i>	<i>Level Shifter 2 - Page B - 35</i>
<i>DDR3 SO-DIMM_1 - Page B - 12</i>	<i>5VS, 3VS, 1.8VS, 1.0VS - Page B - 24</i>	
<i>RTD2136 - Page B - 13</i>	<i>VDD3, VDD5 - Page B - 25</i>	

*Table B - 1*  
**SCHEMATIC  
 DIAGRAMS**  
**6-71-W54T0-D03**



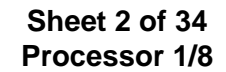
# System Block Diagram

Sheet 1 of 34  
System Block  
Diagram



**Processor 1/8 B - 3**

## B.Schematic Diagrams



Sheet 3 of 34  
Processor 2/8





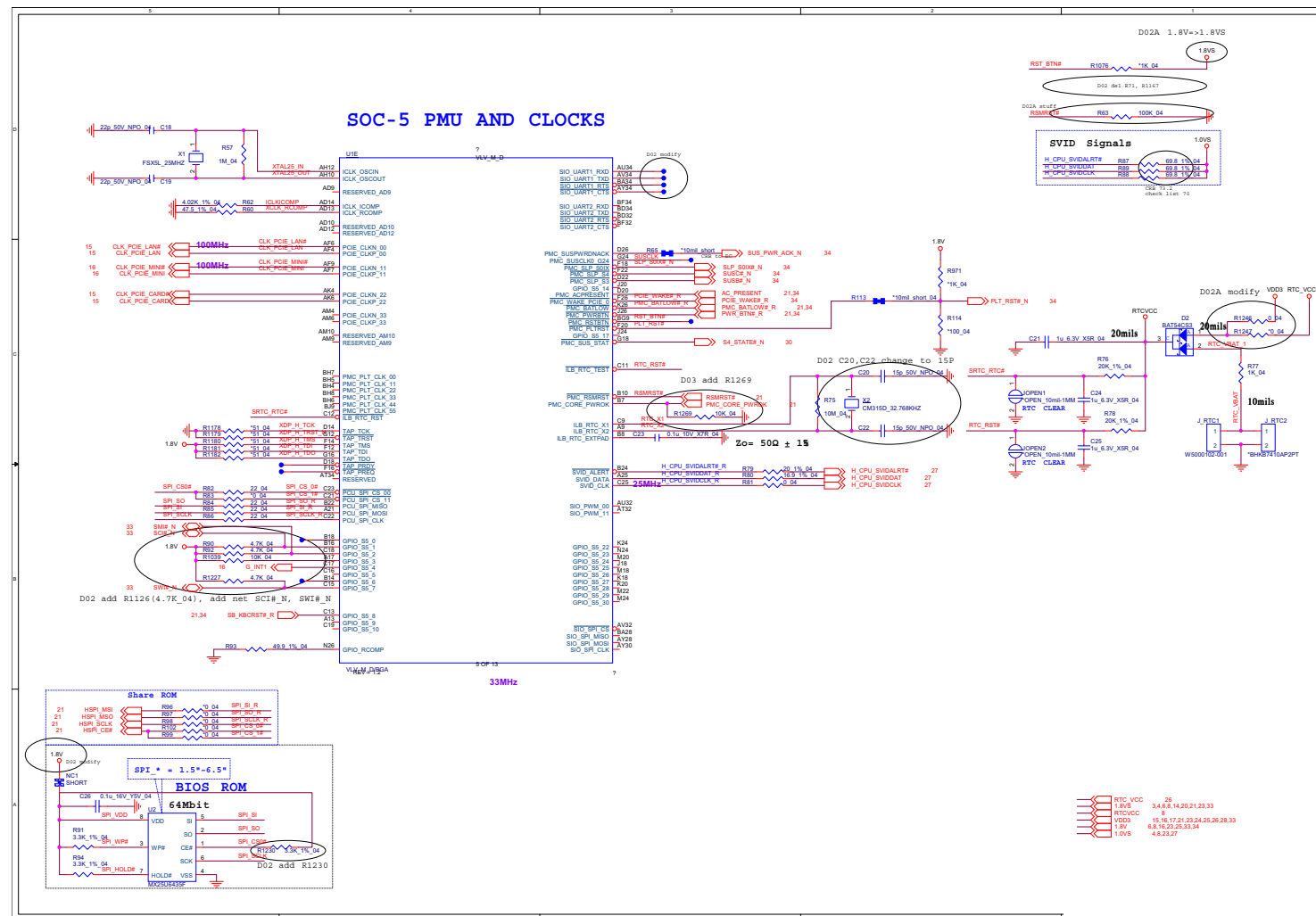
**Processor 3/8 B - 5**

**Processor 3/8 B - 5**

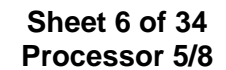


## Processor 4/8

Sheet 5 of 34  
Processor 4/8



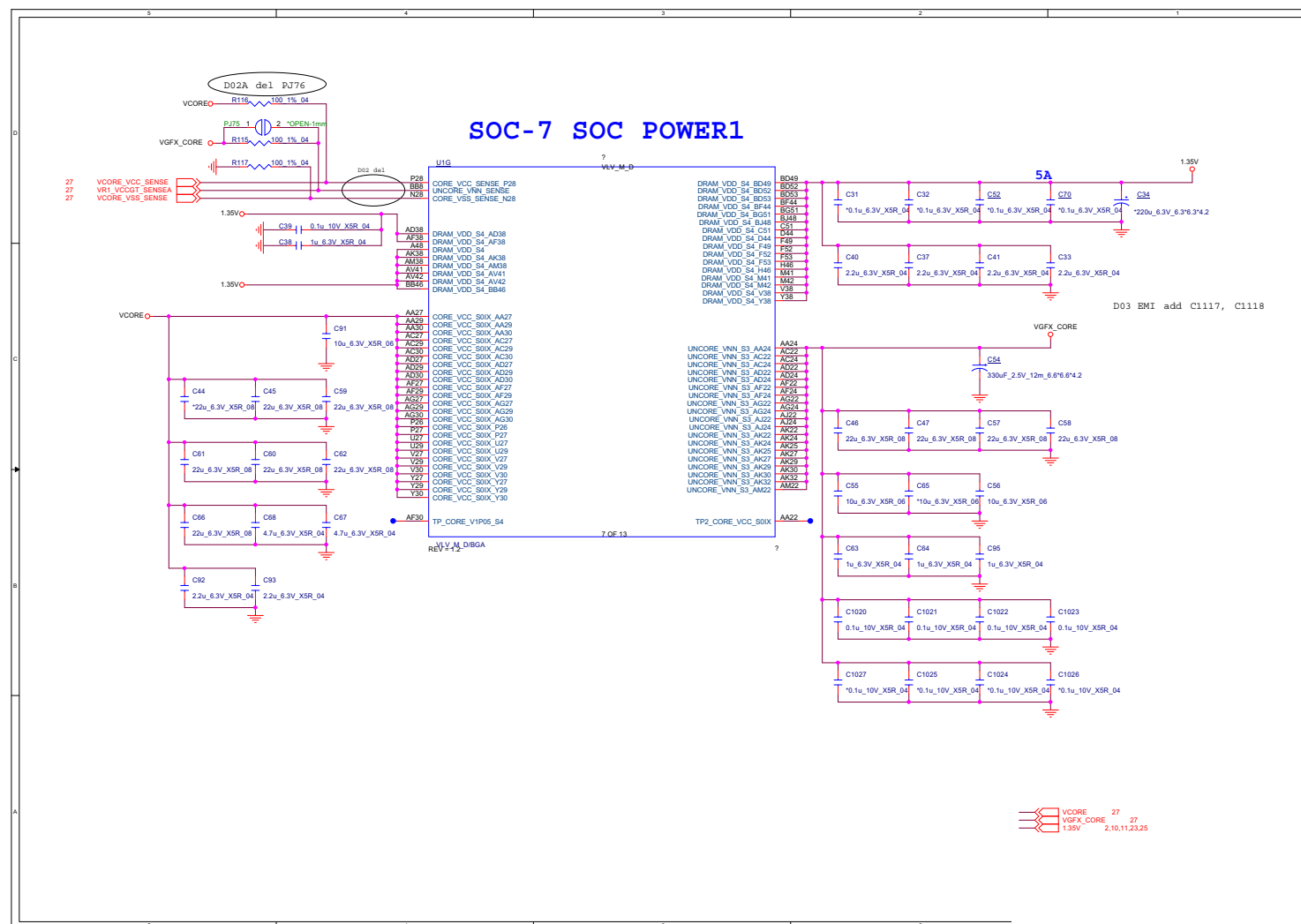
## B.Schematic Diagrams



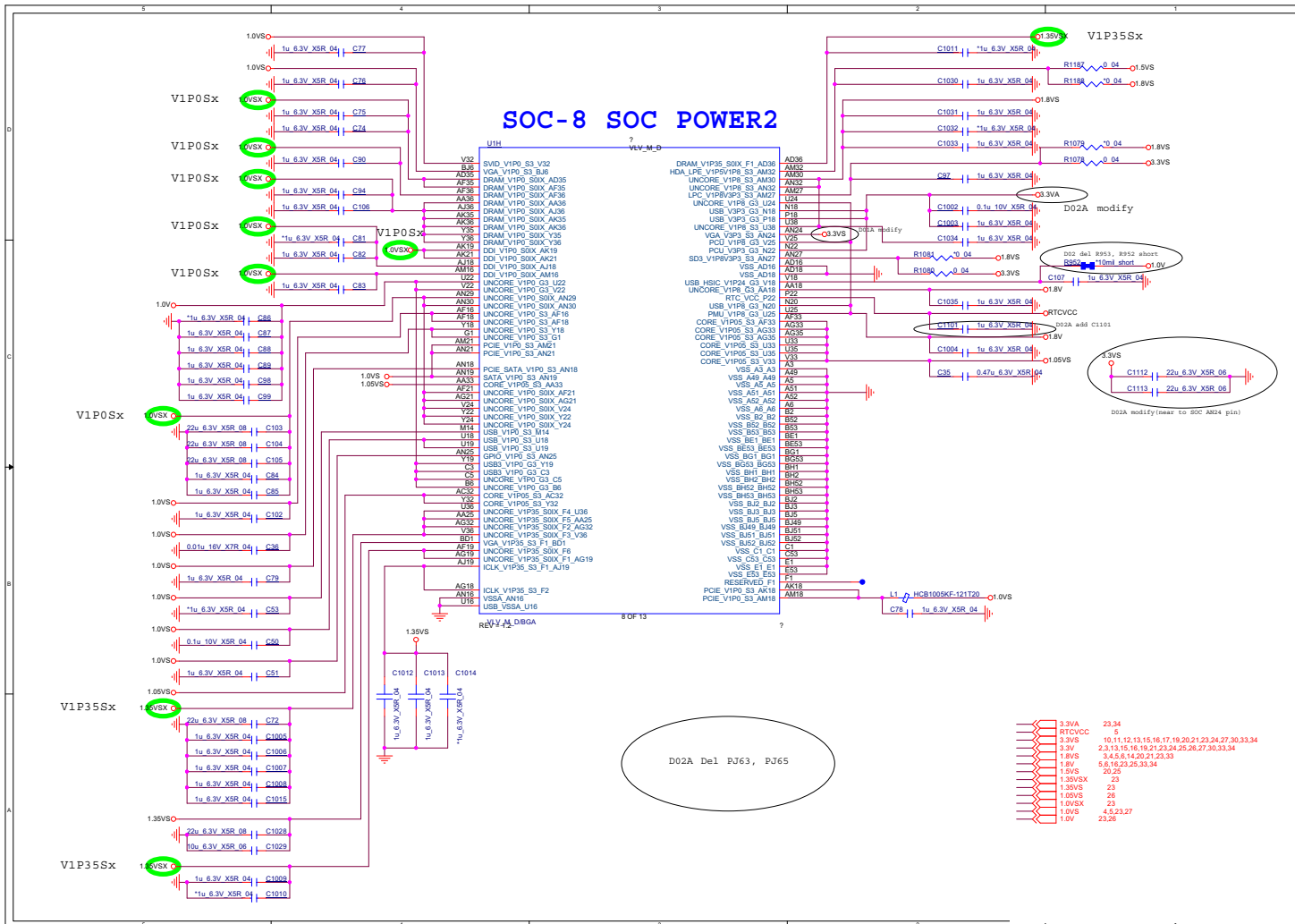


## Processor 6/8

Sheet 7 of 34  
Processor 6/8



# Processor 7/8



Sheet 8 of 34  
Processor 7/8

B.Schematic Diagrams

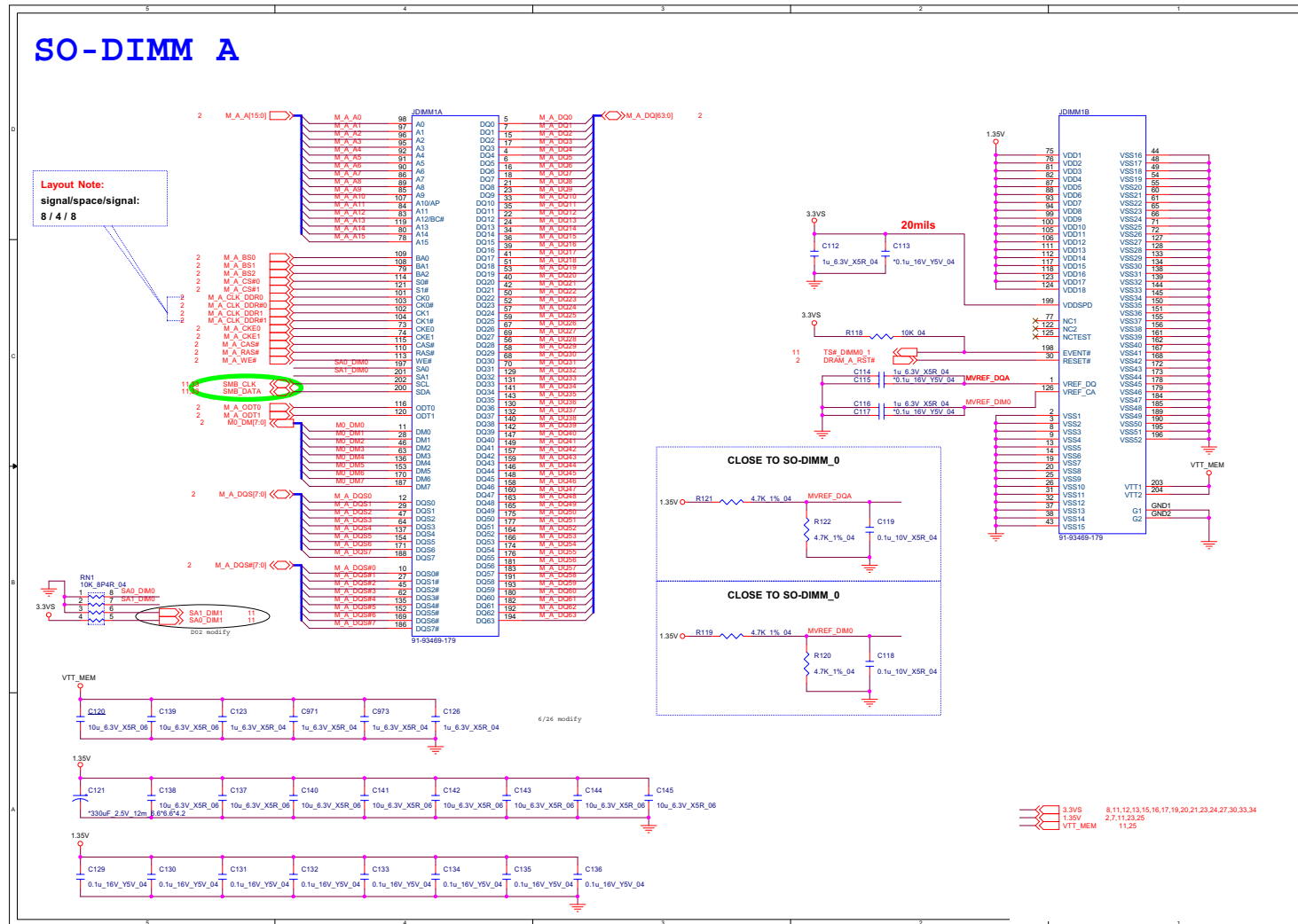
## Processor 8/8

Sheet 9 of 34  
Processor 8/8





## DDR3 SO-DIMM\_0



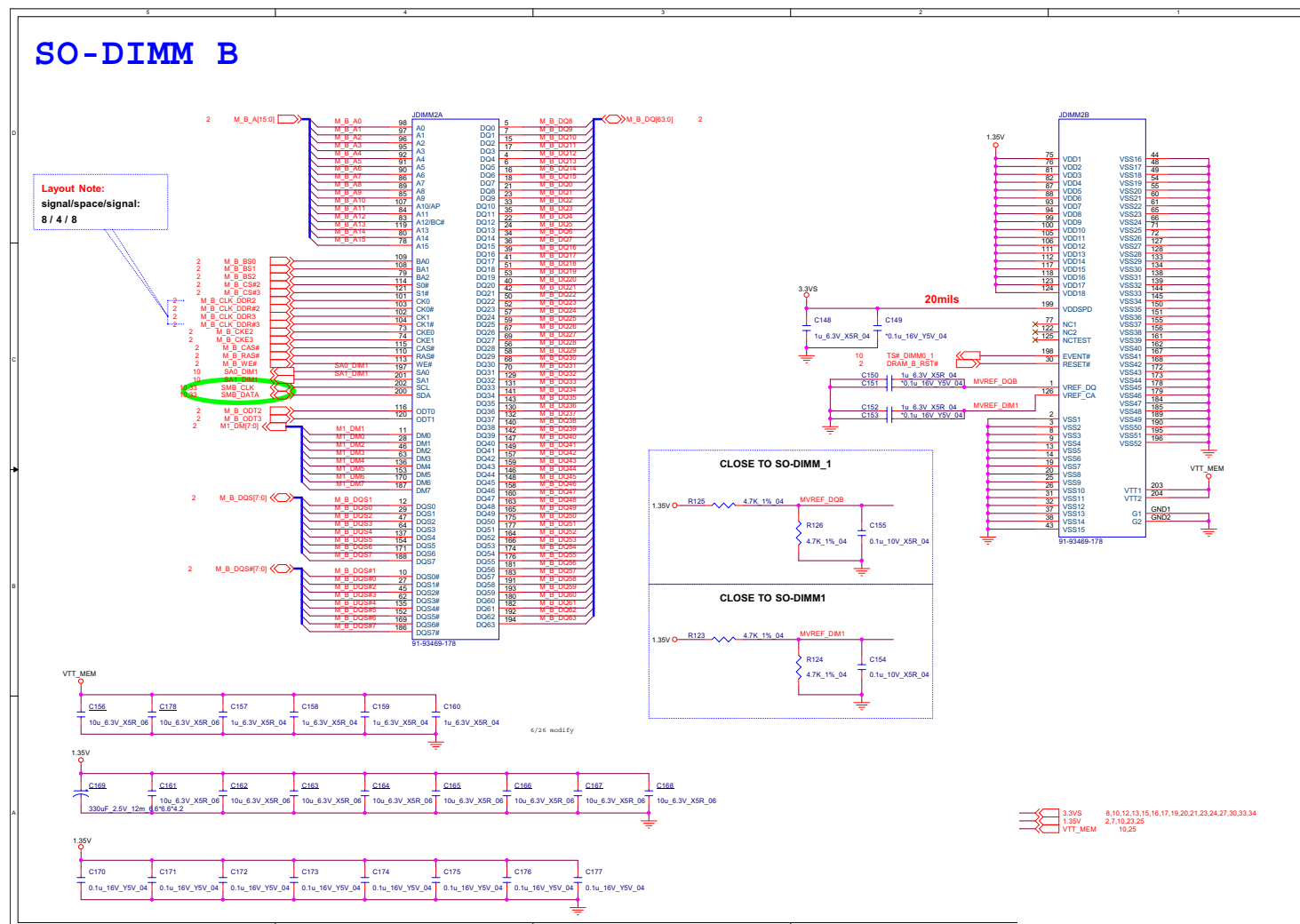
## DDR3 SO-DIMM\_1

## SO-DIMM B

**Layout Note:**  
signal/space/signal:  
8 / 4 / 8

Sheet 11 of 34  
DDR3 SO-DIMM\_1

## B.Schematic Diagrams



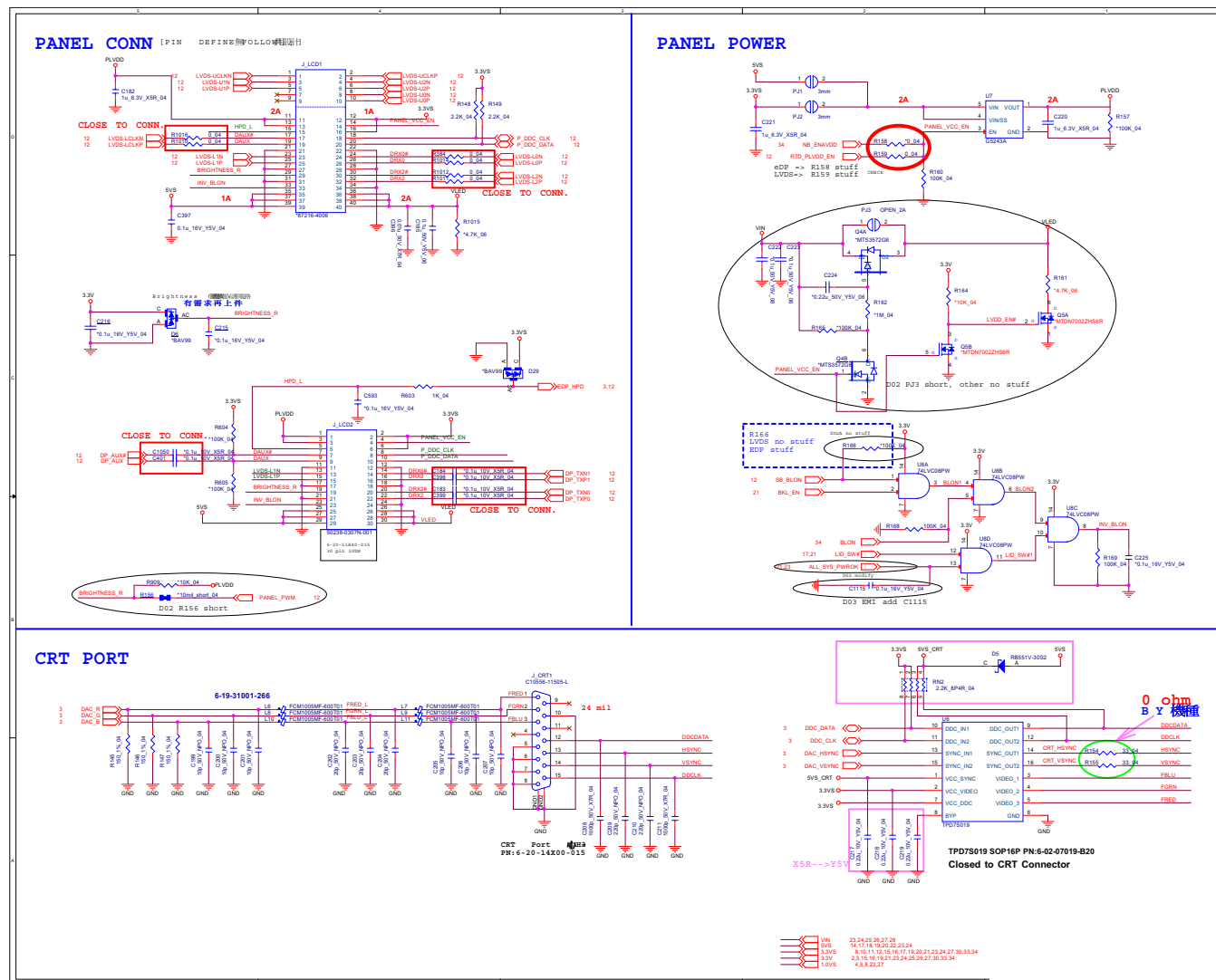
Sheet 12 of 34  
RTD2136





## Panel, CRT

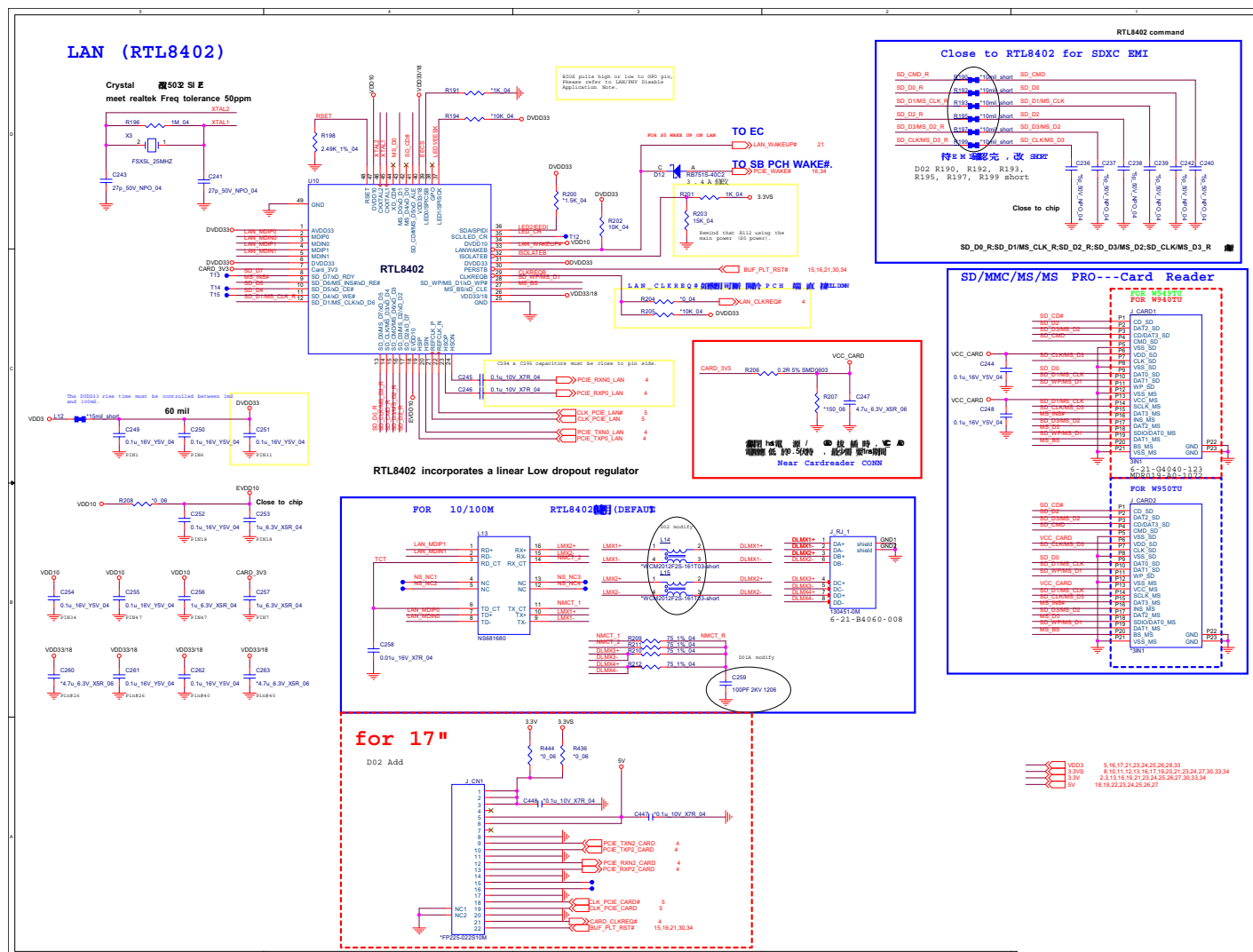
**Sheet 13 of 34**  
**Panel, CRT**





## LAN, Card Reader

Sheet 15 of 34  
LAN, Card Reader



**Sheet 16 of 34**  
**Mini Card**

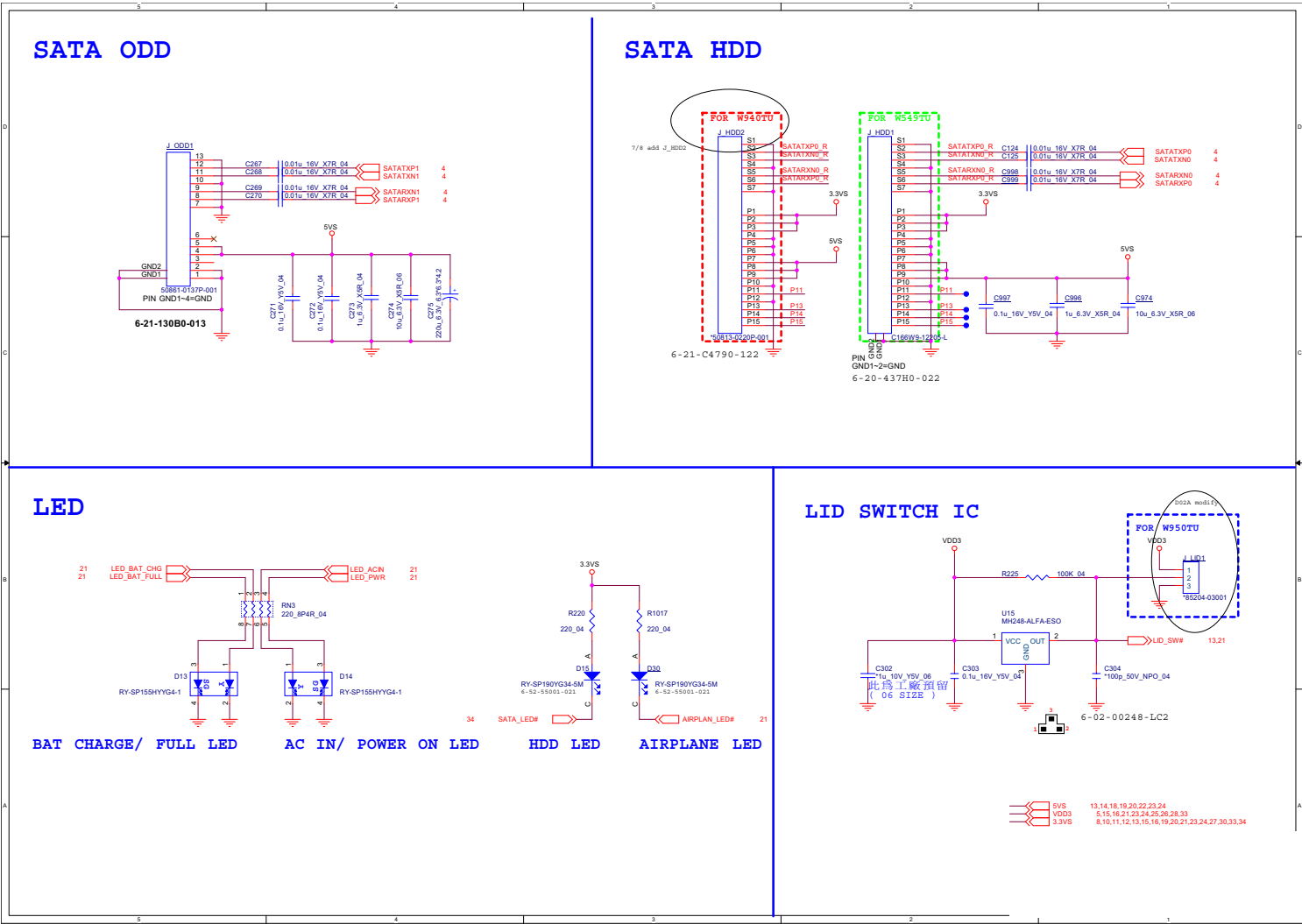




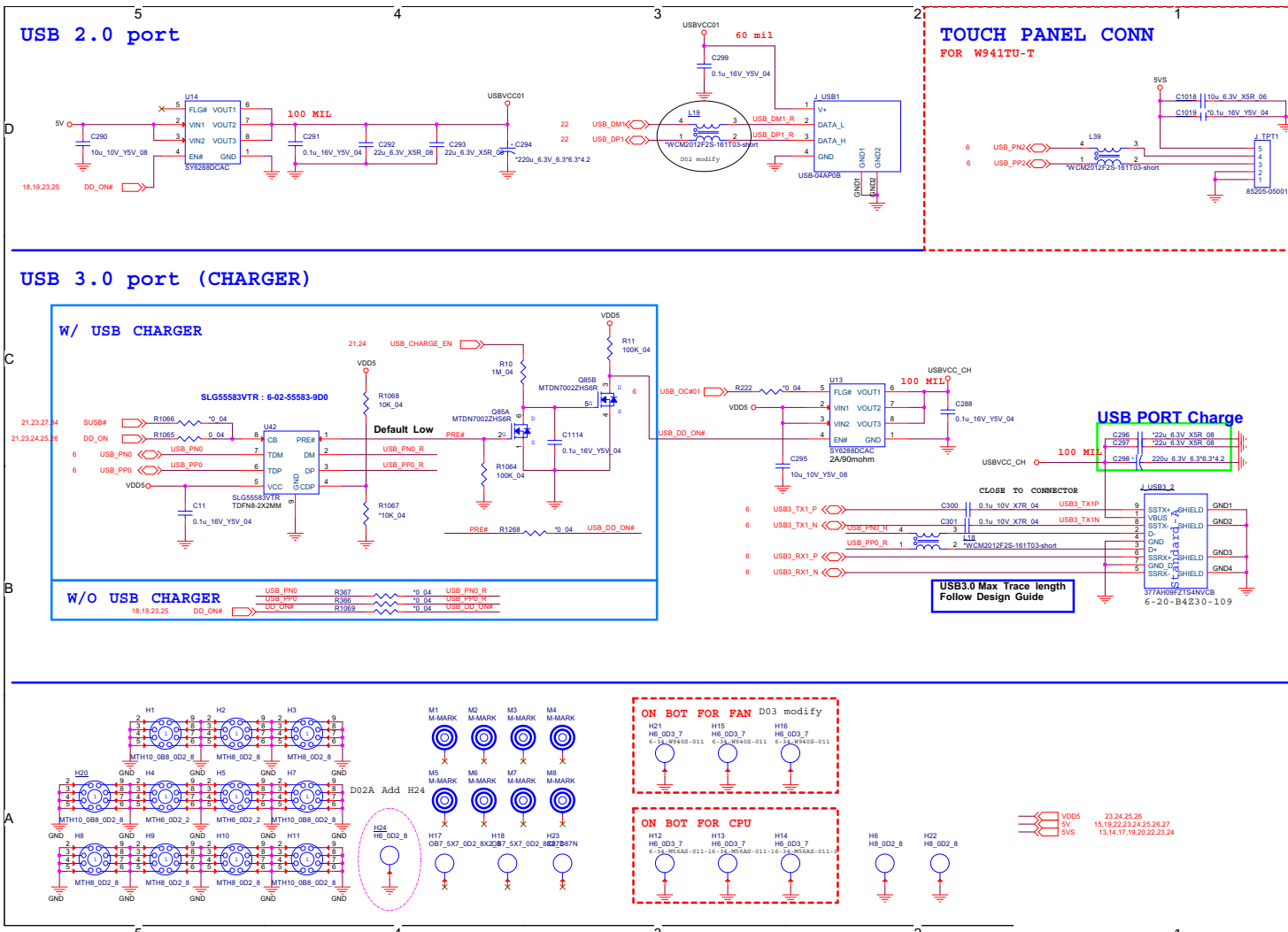
Schematic Diagrams

HDD, ODD, LED, LID

Sheet 17 of 34  
HDD, ODD, LED, LID



# USB, Touch Panel

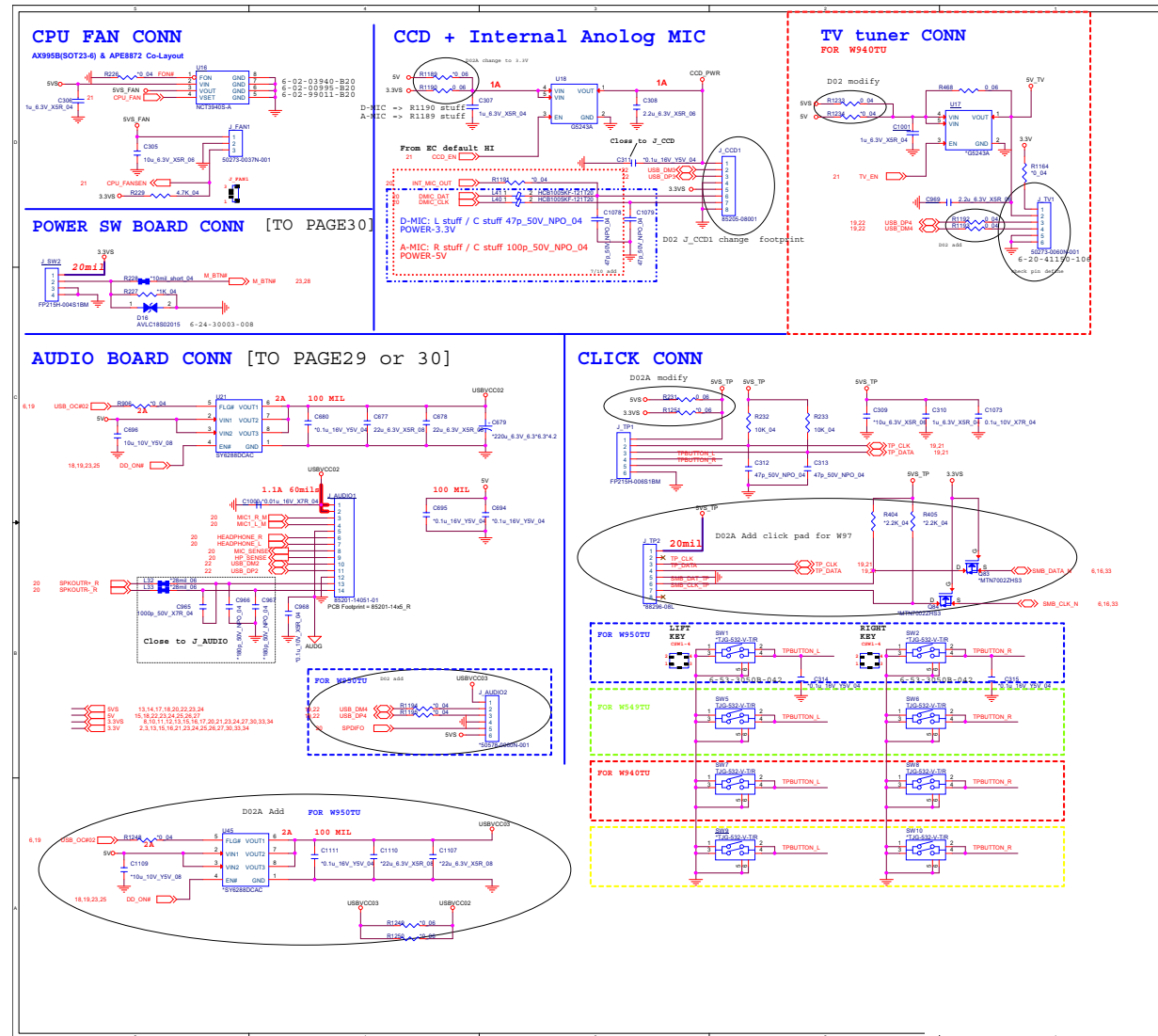


Sheet 18 of 34  
USB, Touch Panel

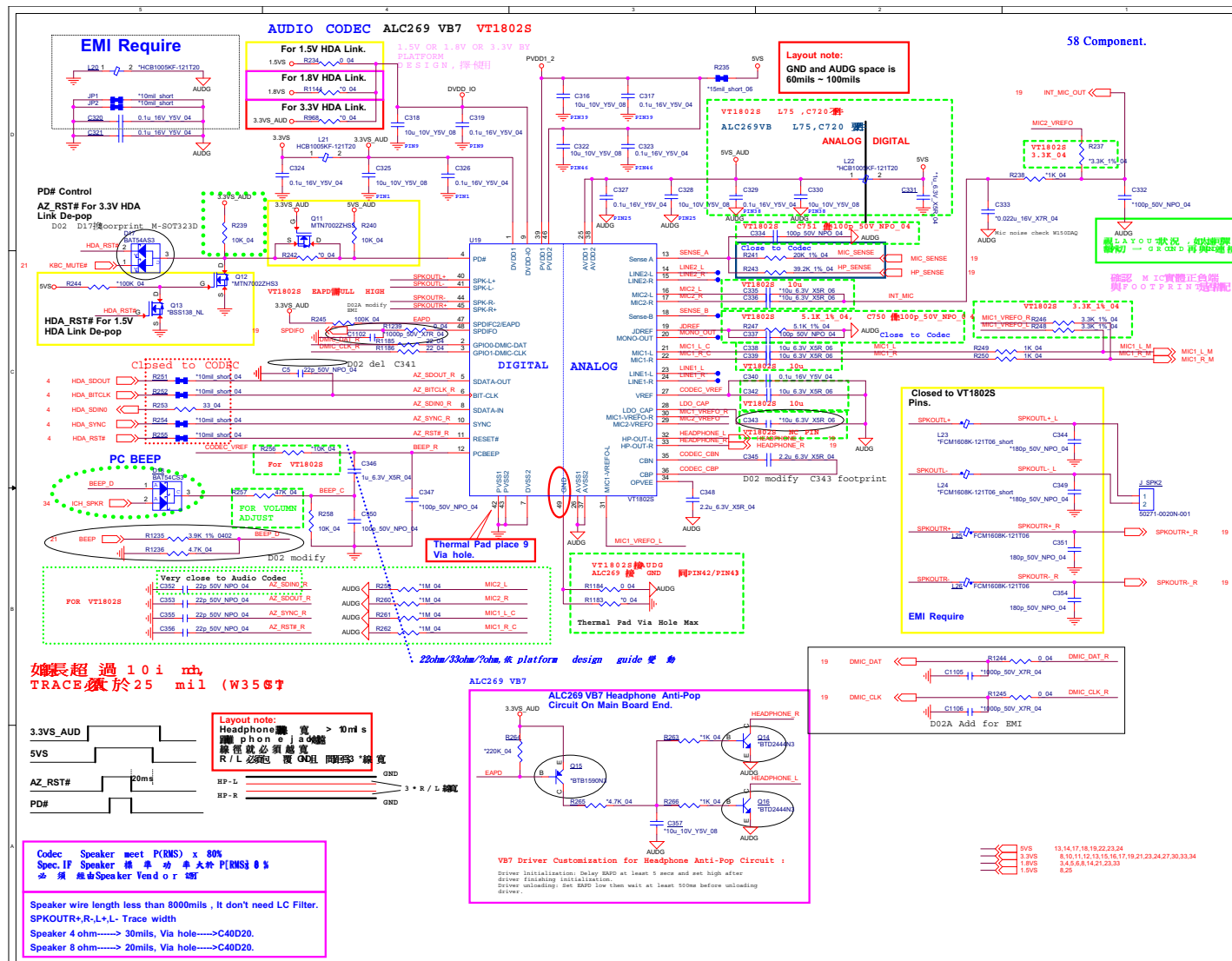
## Schematic Diagrams

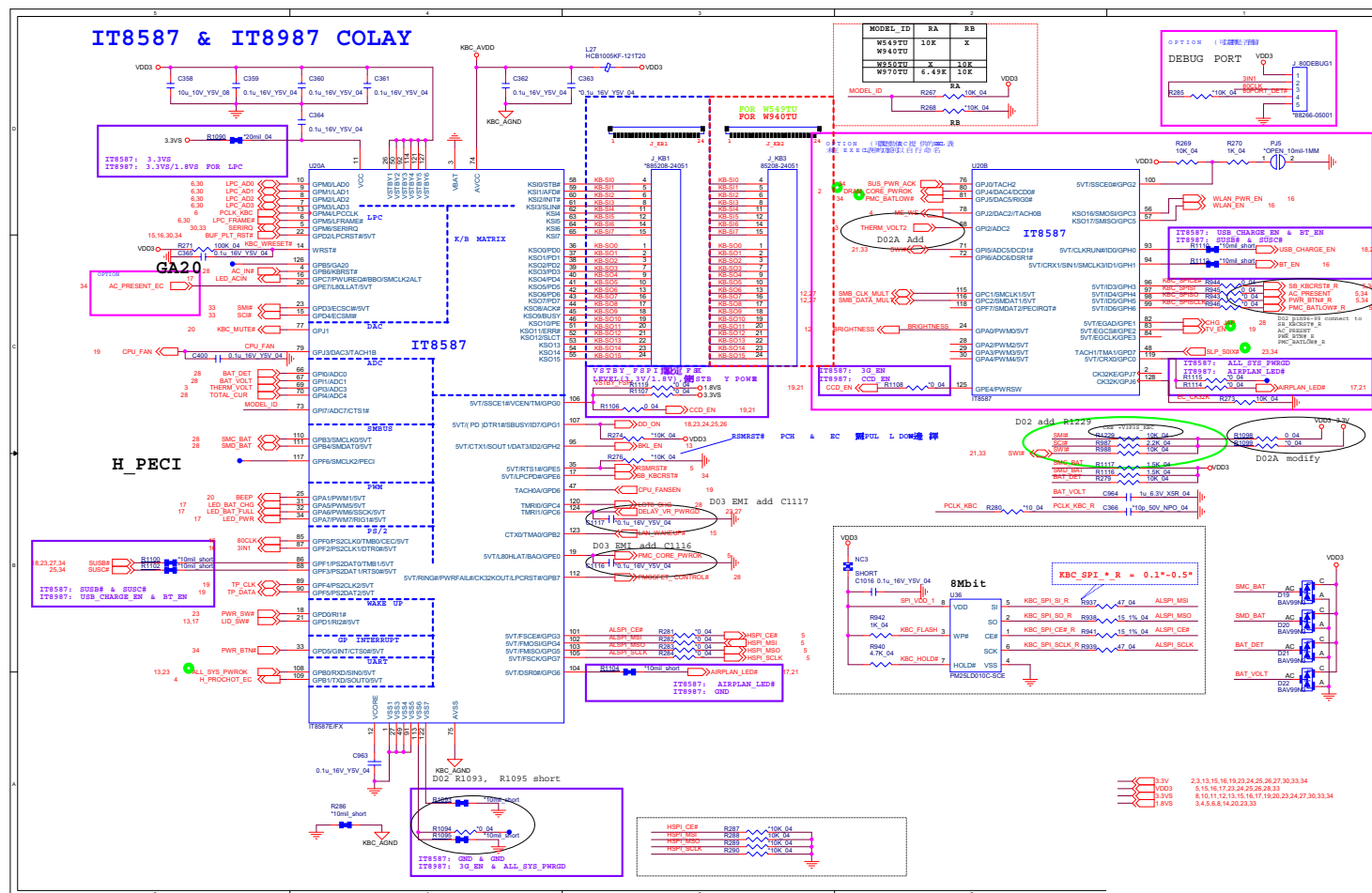
## Conn, CCD, Fan, Click, TV

Sheet 19 of 34  
Conn, CCD, Fan,  
Click, TV



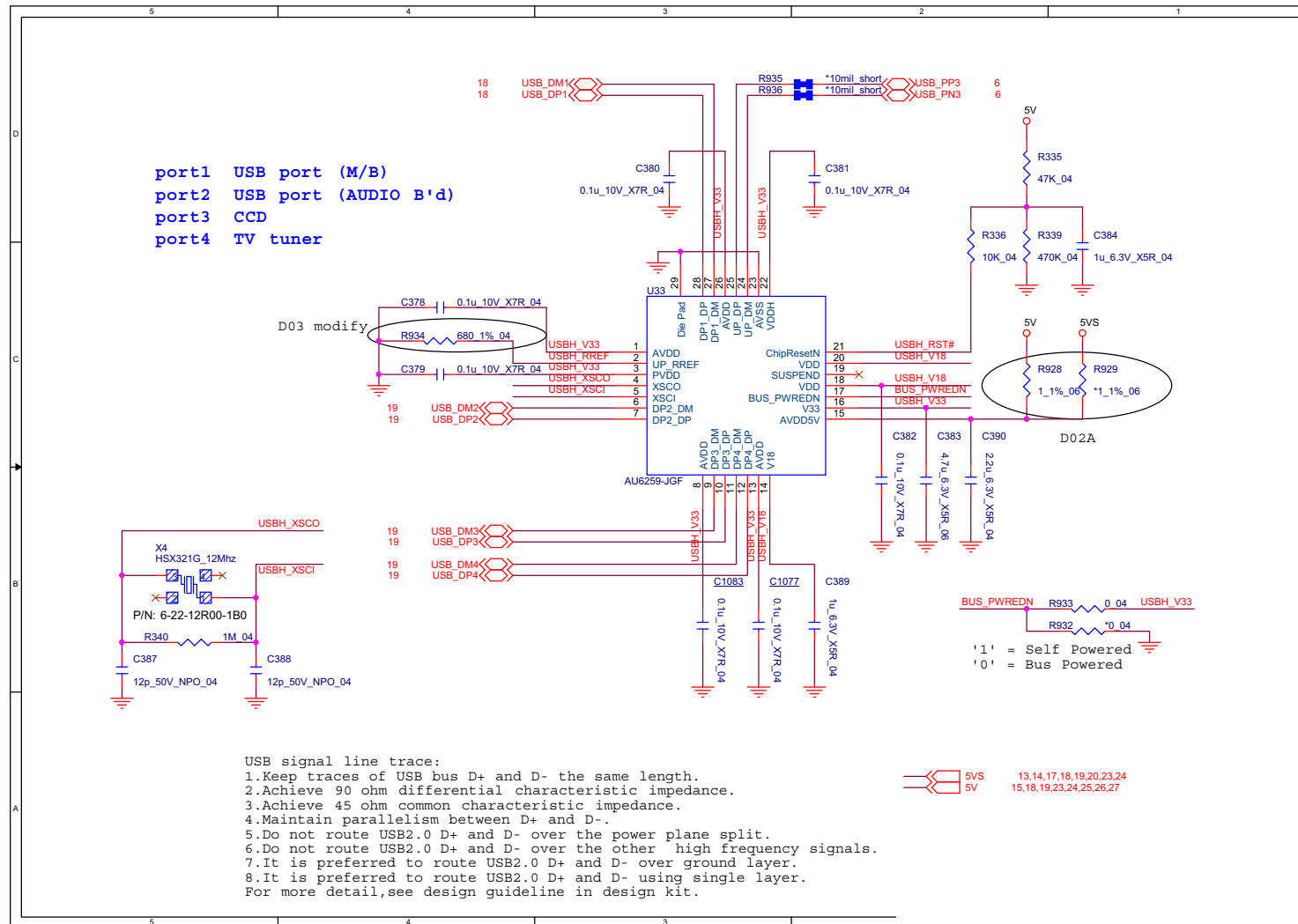
**Audio Codec B - 21**







**AU6259 B - 23**

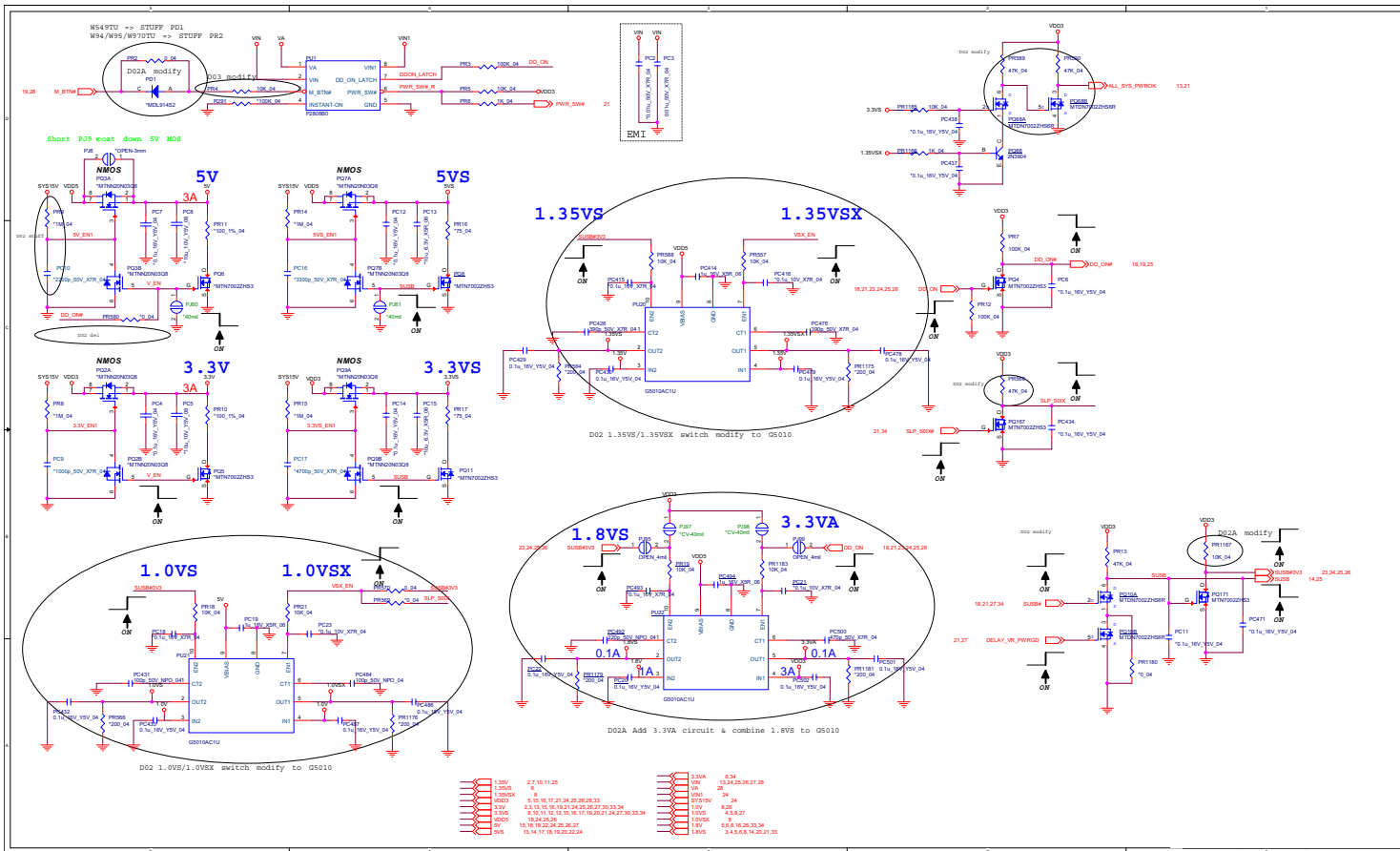


\_\_\_\_\_

## 5VS, 3VS, 1.8VS, 1.0VS

## B. Schematic Diagrams

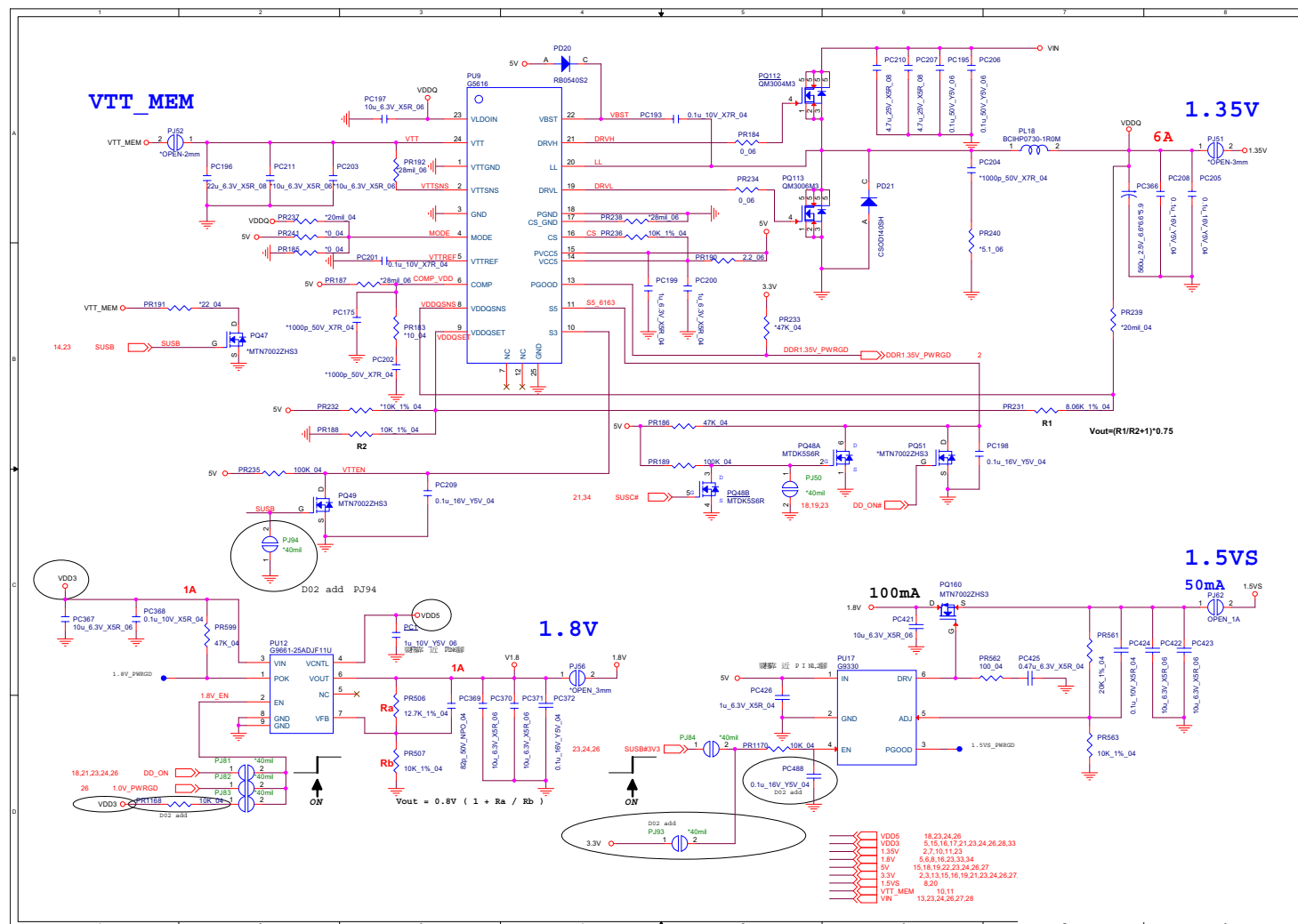
**Sheet 23 of 34**  
**5VS, 3VS, 1.8VS,**  
**1.0VS**



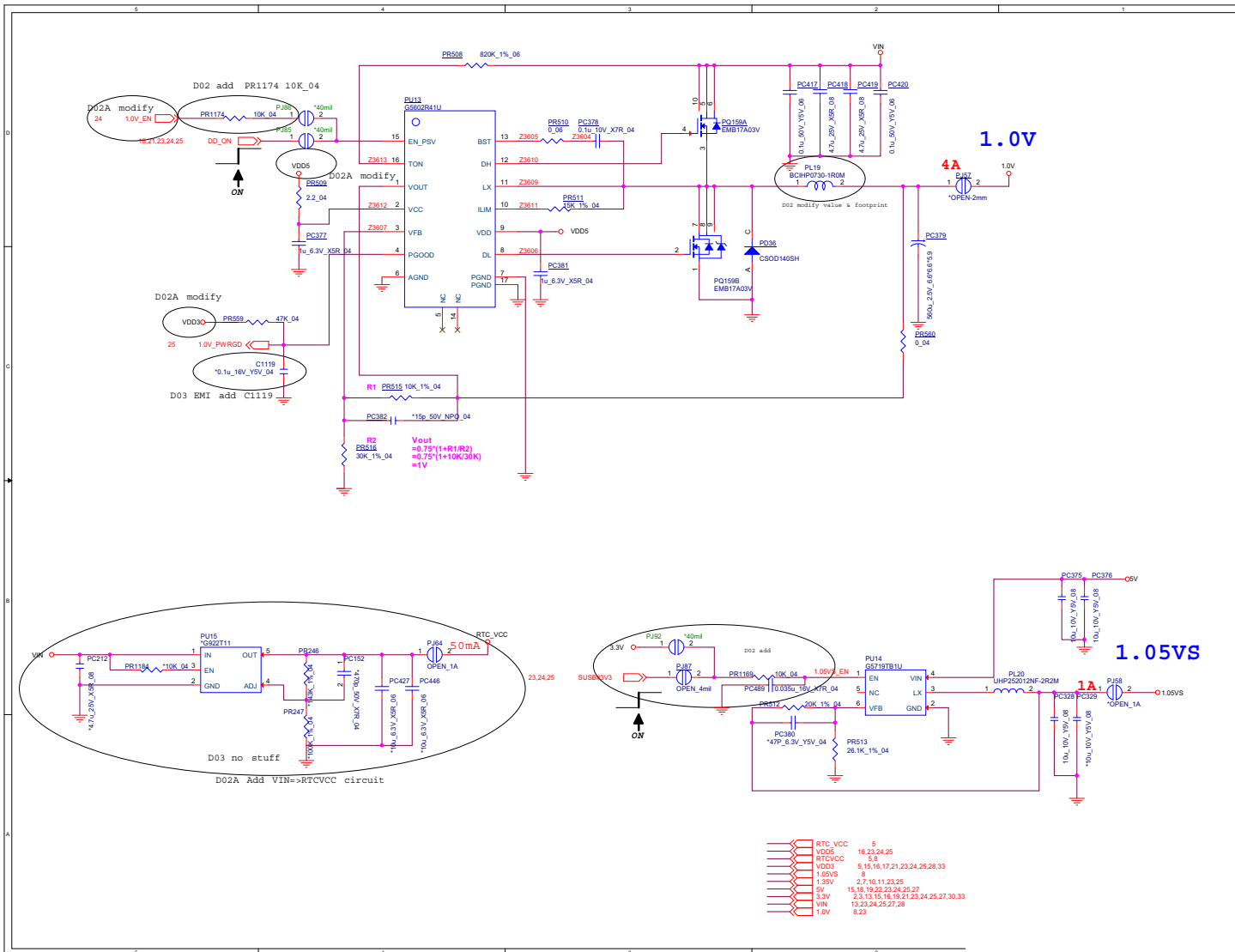
VDD3, VDD5 B - 25

## B.Schematic Diagrams

Sheet 25 of 34  
1.5VS, 1.5V,  
VTT\_MEM



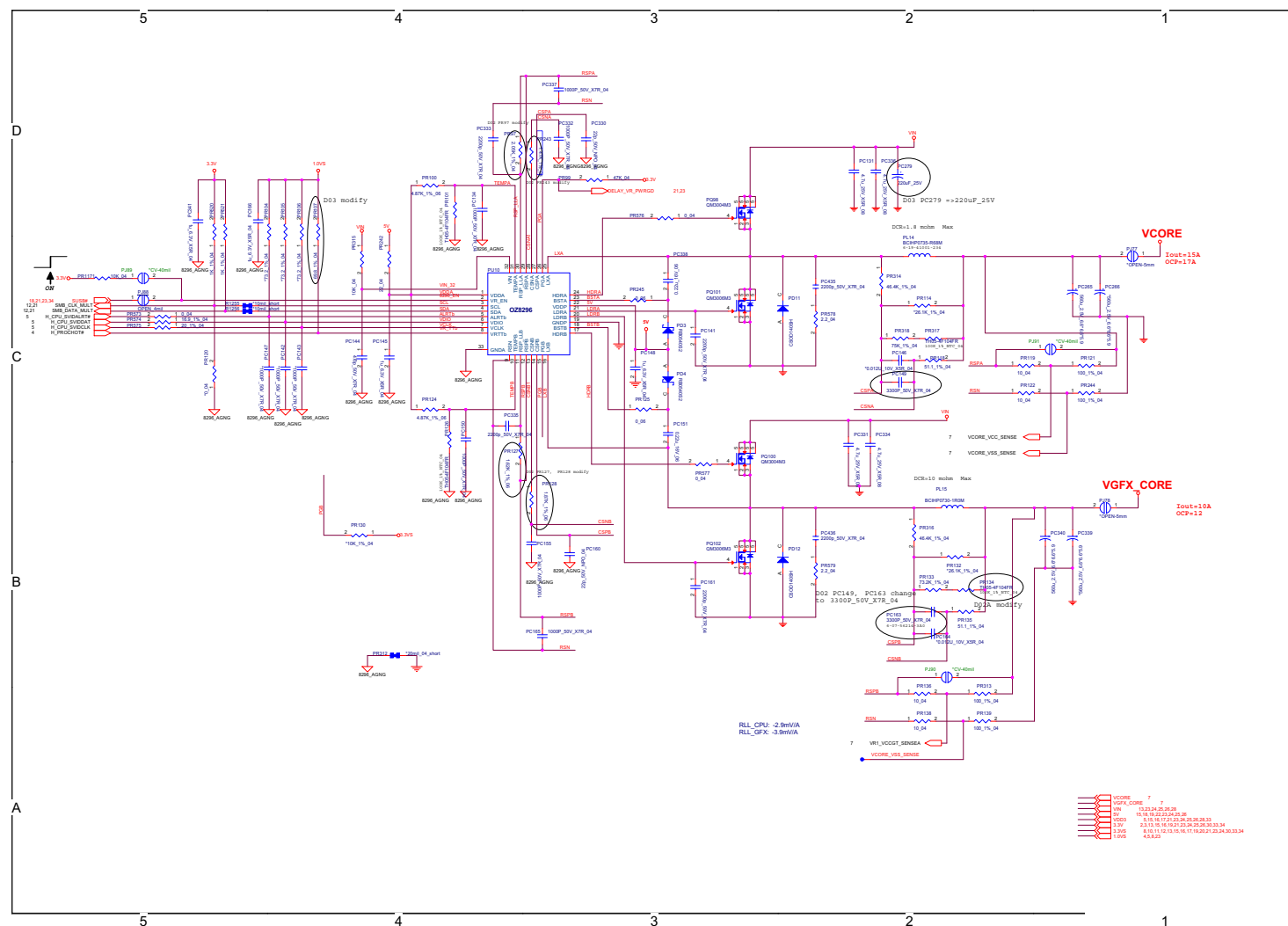
# 1.0V, 1.05VS, 1.24V



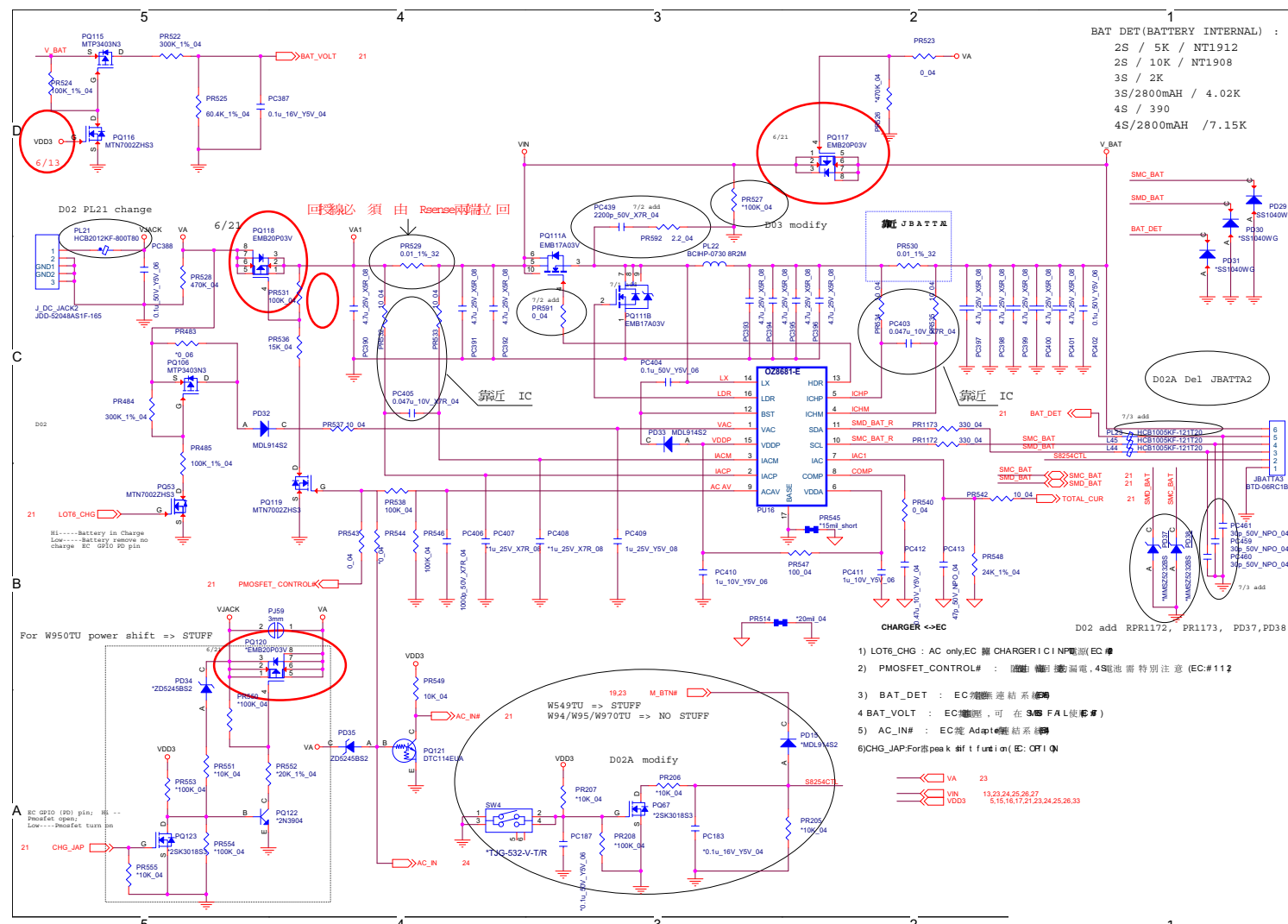


## VCore

**Sheet 27 of 34**  
**VCore**



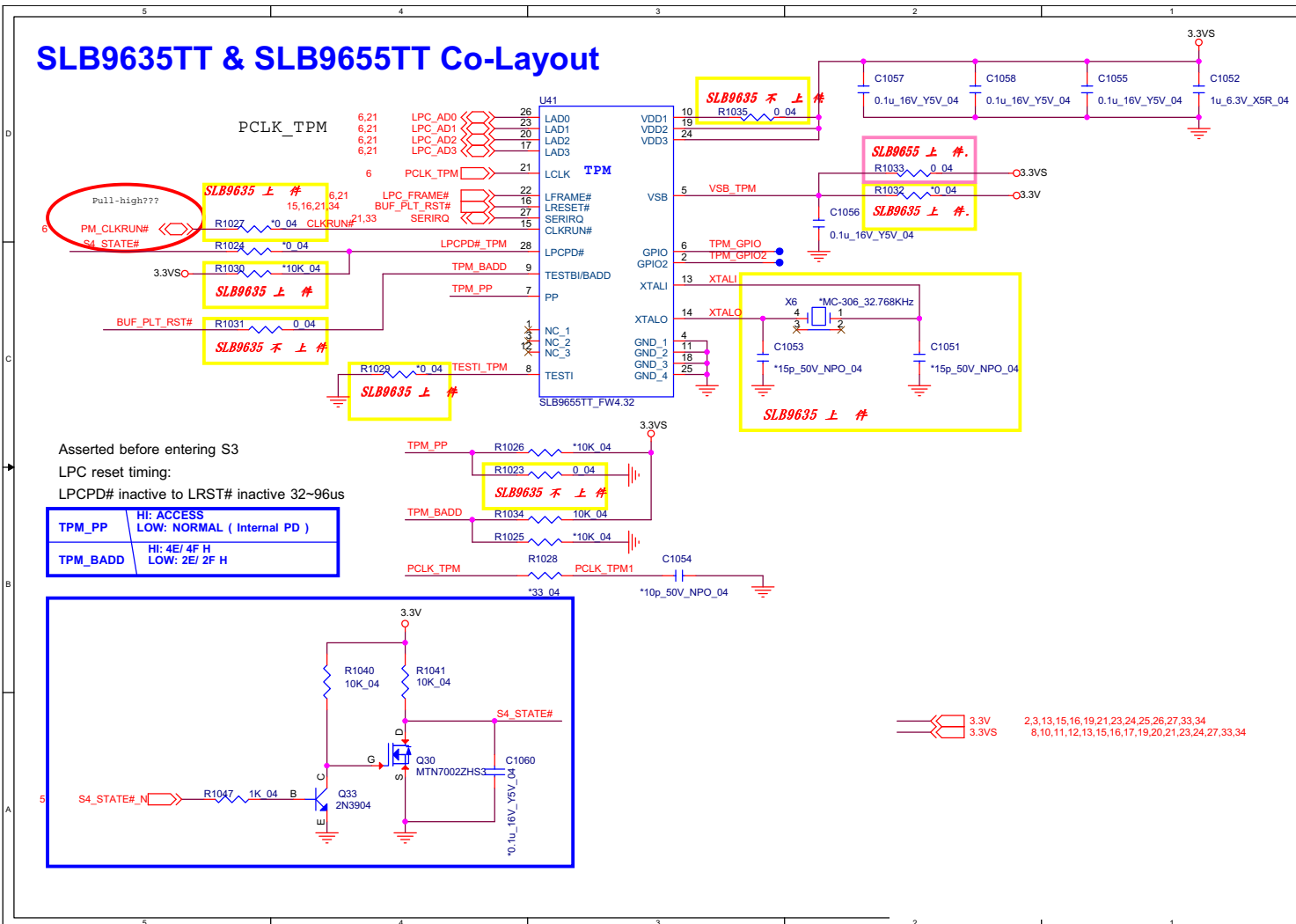
## AC IN, Charger

Sheet 28 of 34  
AC In, Charger

**Sheet 29 of 34**  
**Audio Board**



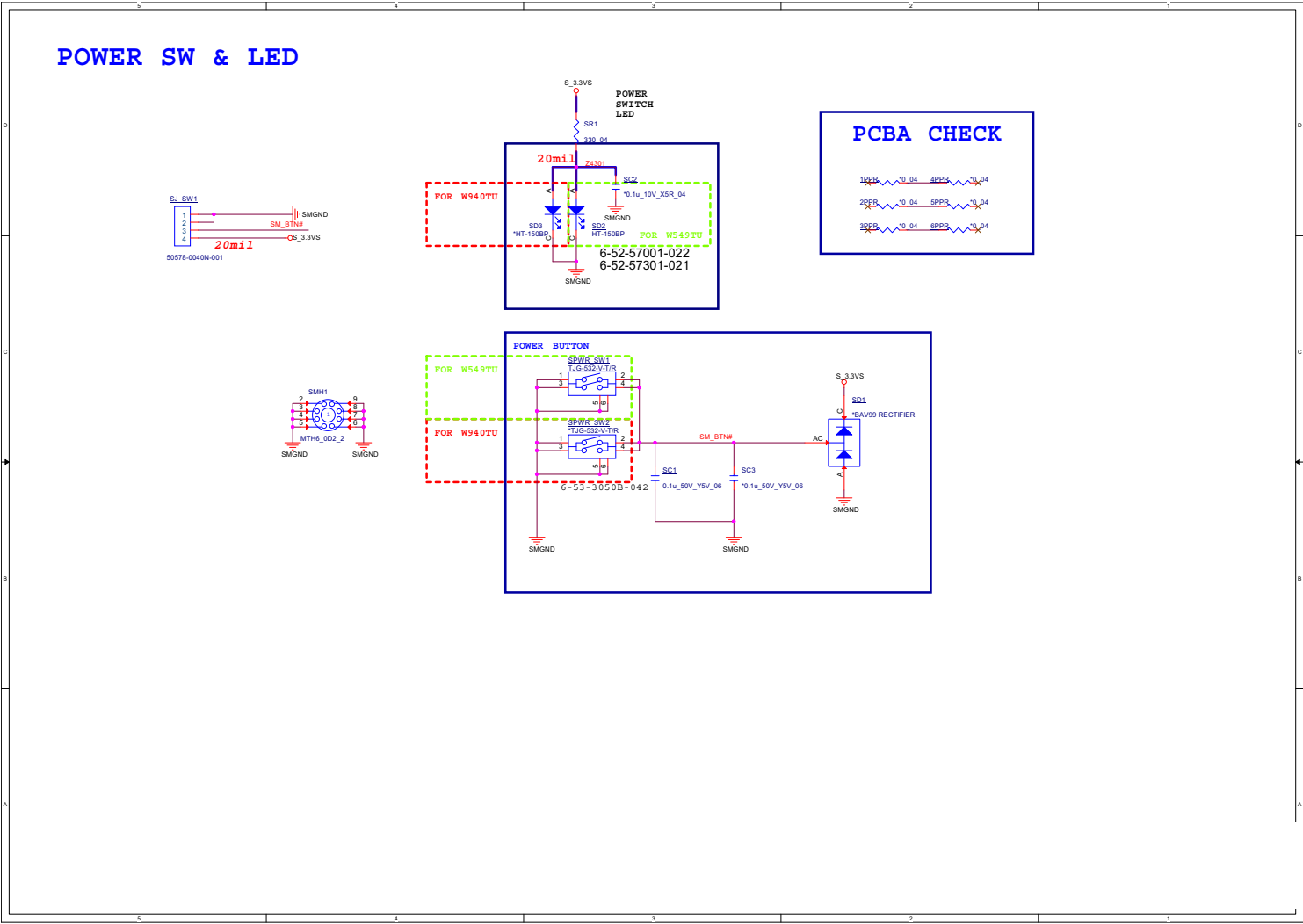
## TPM

Sheet 30 of 34  
TPM

Schematic Diagrams

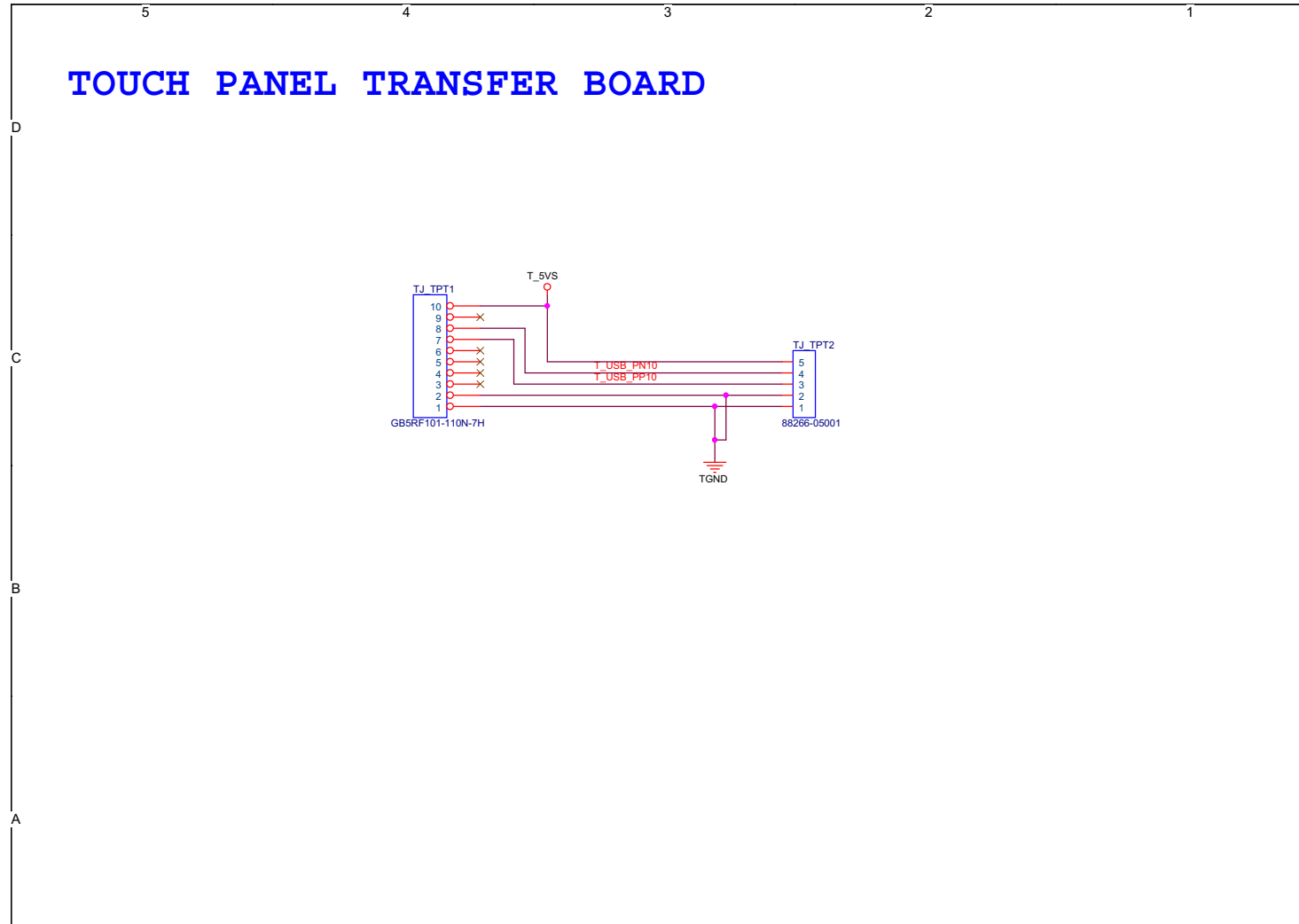
SW Board

Sheet 31 of 34  
SW Board





# Touch Panel Board

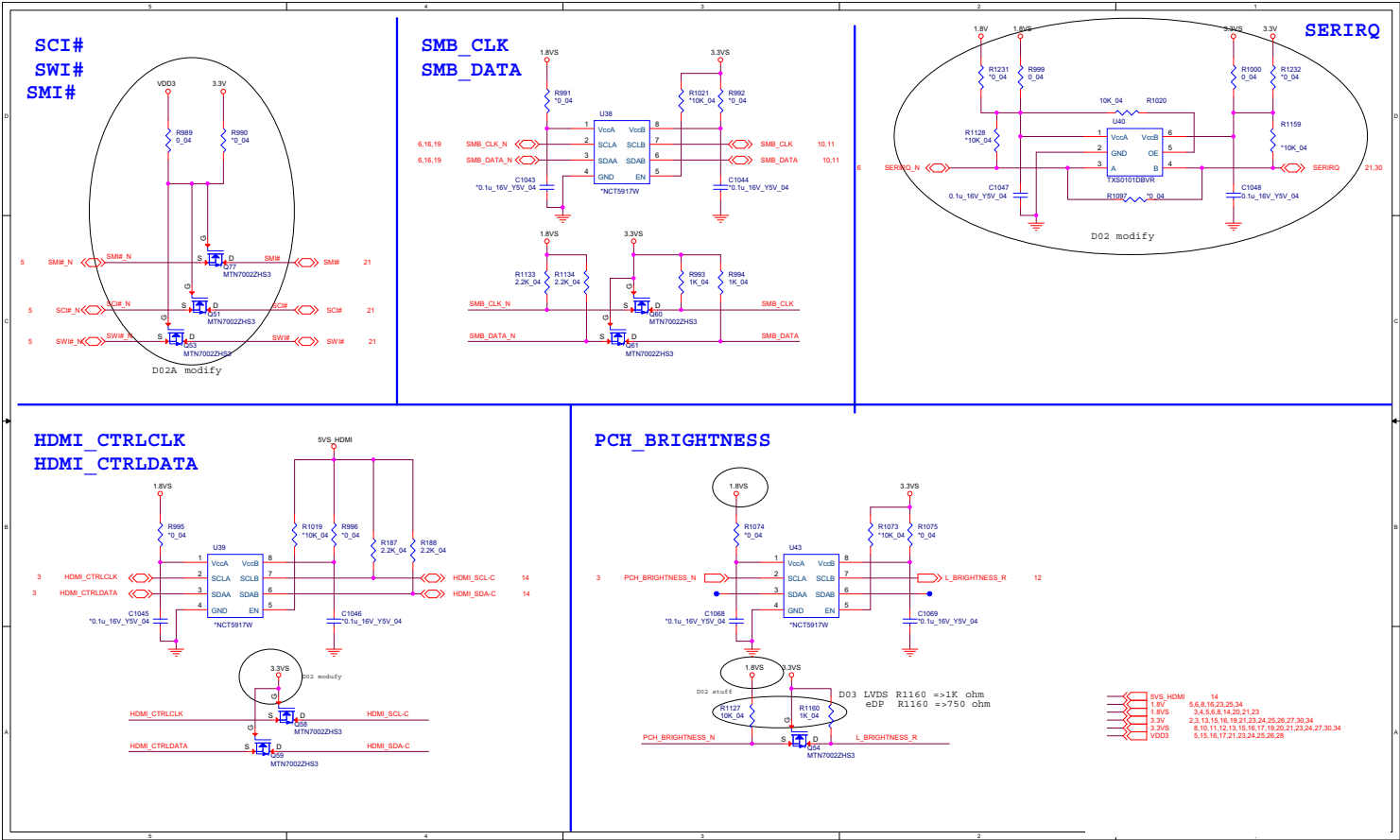


**Sheet 32 of 34**  
**Touch Panel Board**

Schematic Diagrams

Level Shifter 1

Sheet 33 of 34  
Level Shifter 1



## Level Shifter 2 B - 35

