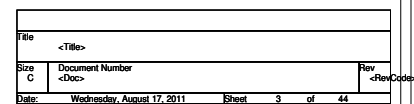
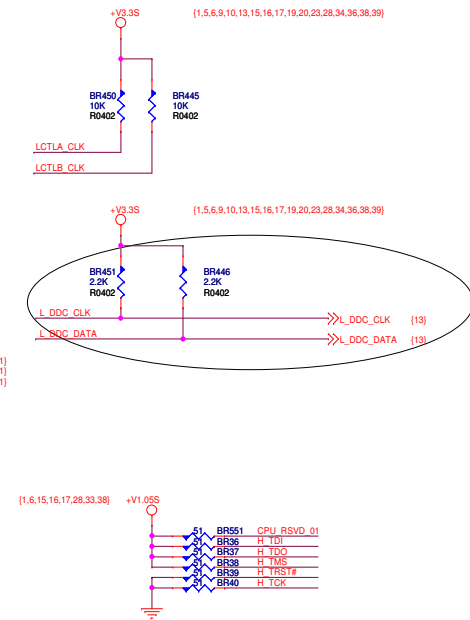
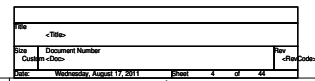
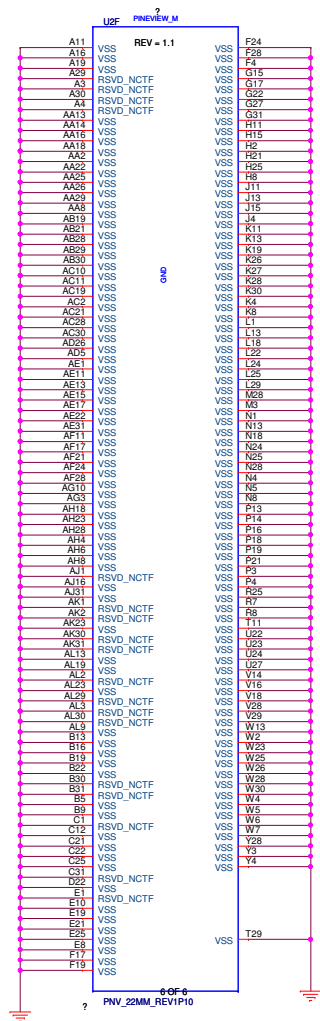
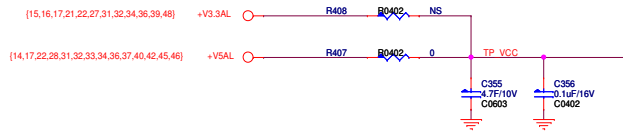
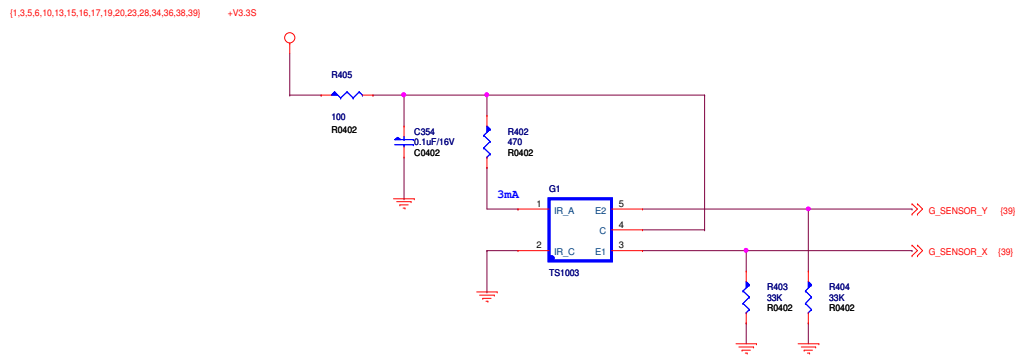


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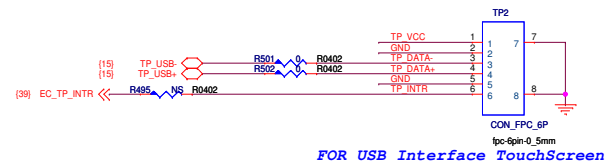






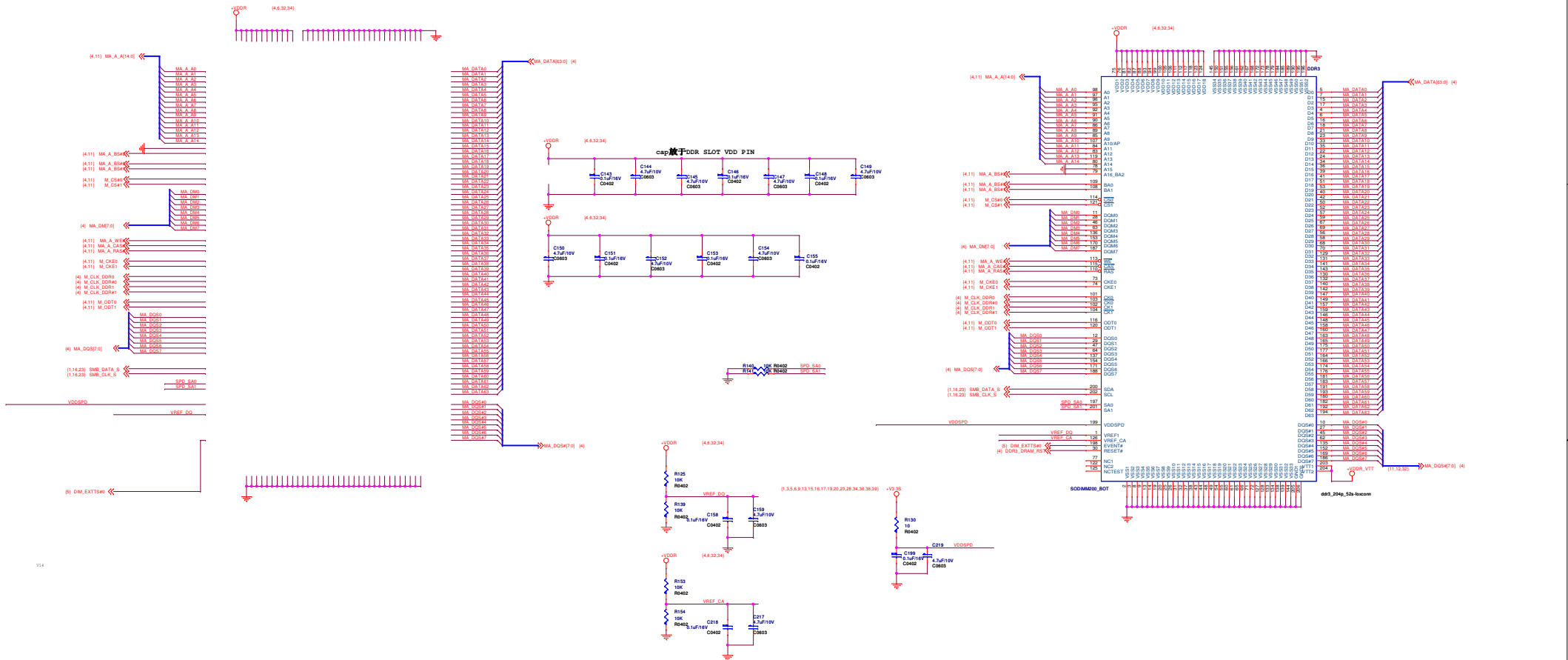


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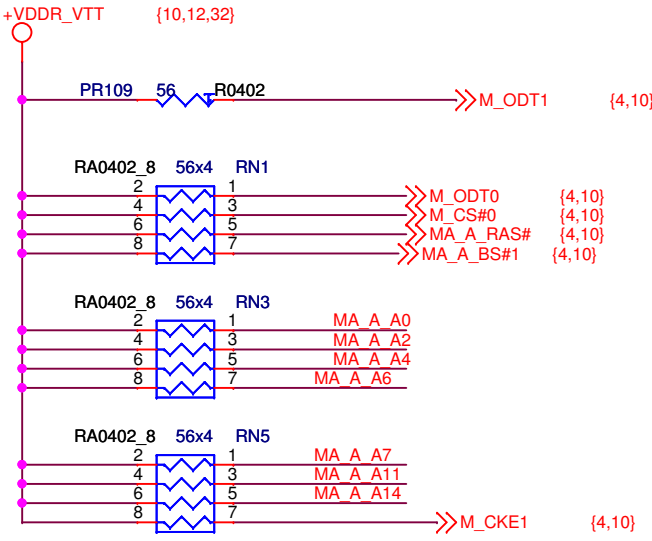
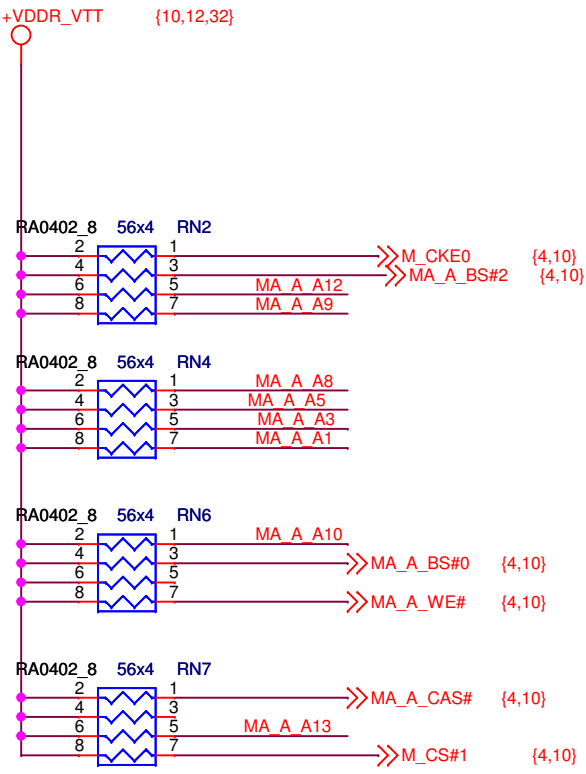


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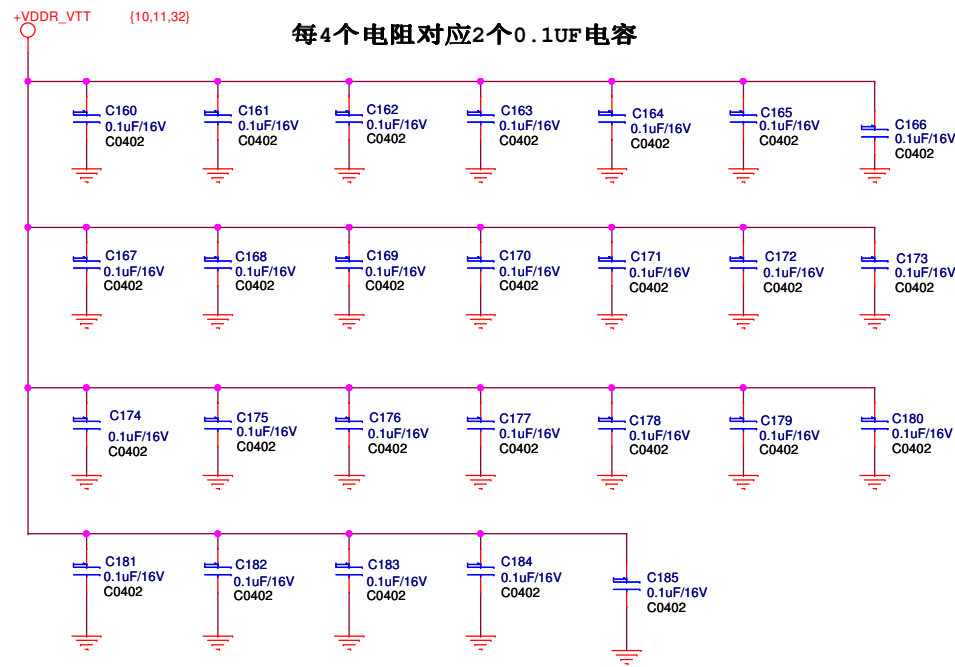




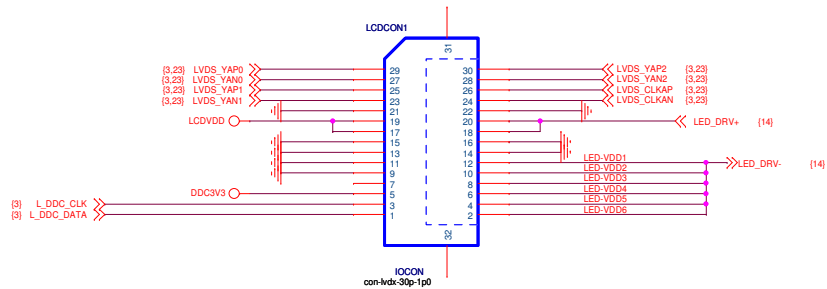
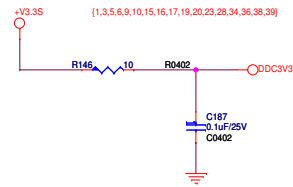
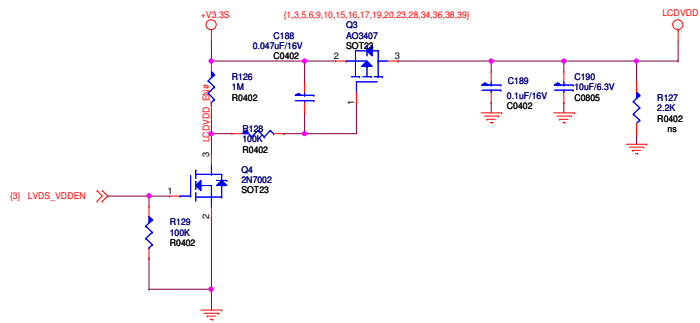
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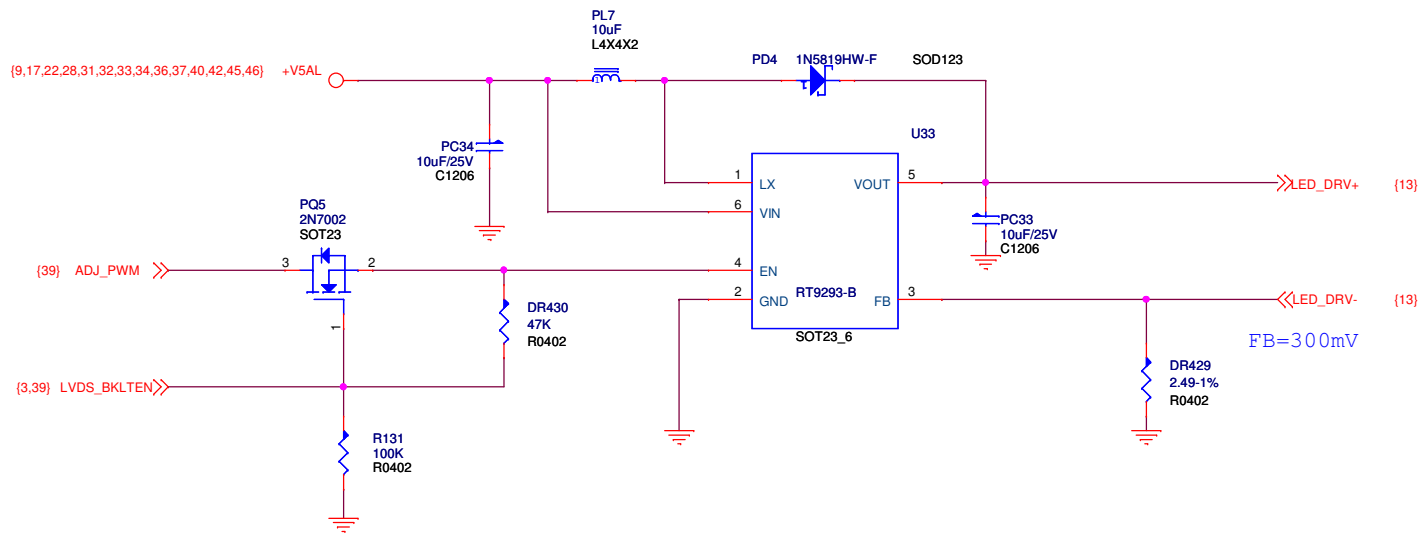


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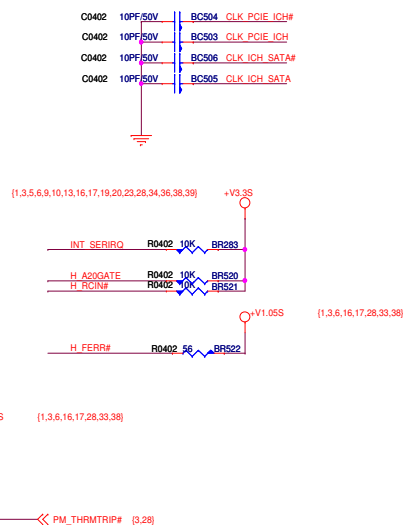
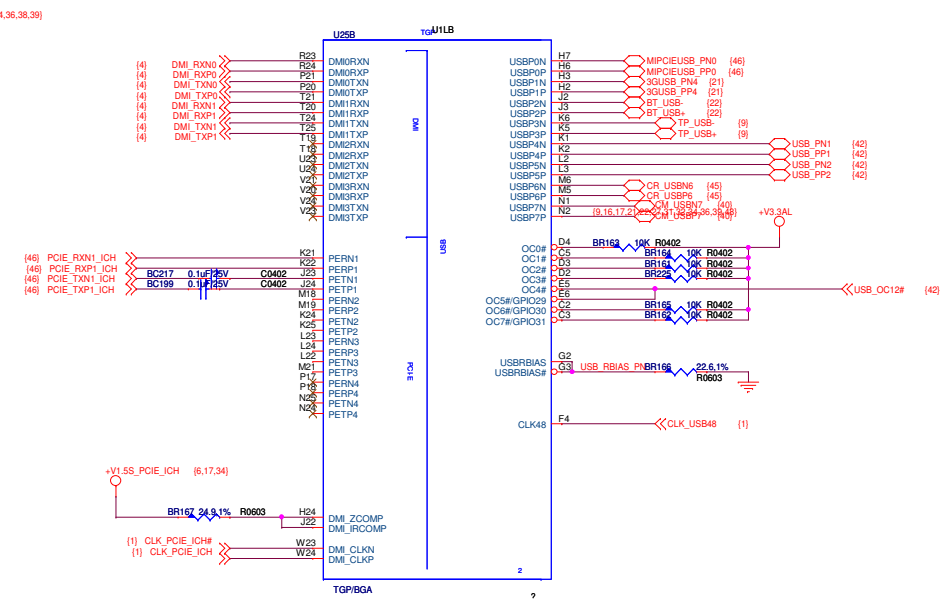
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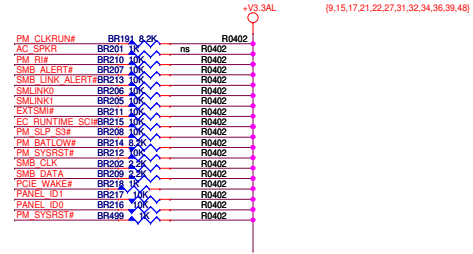
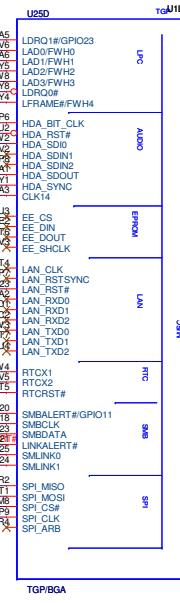
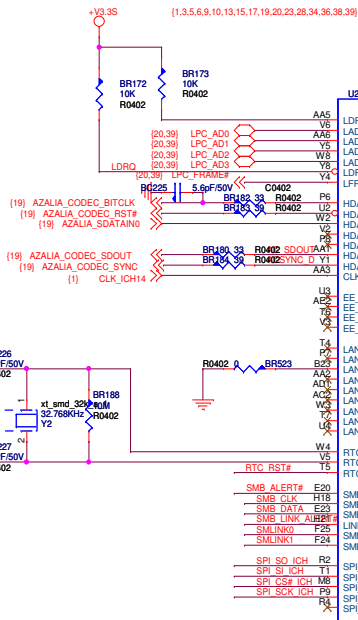
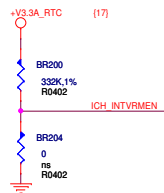
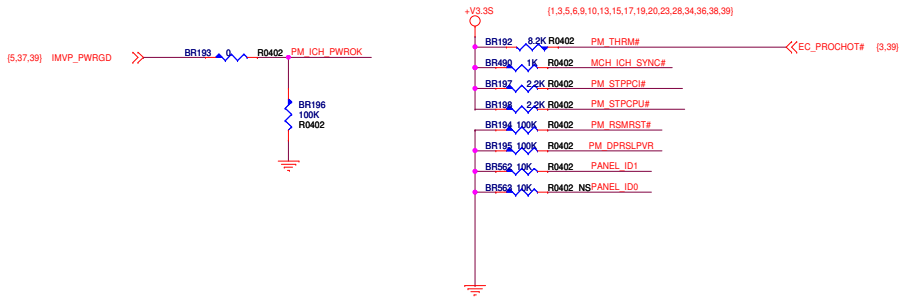
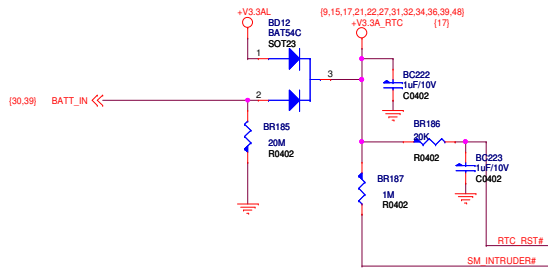
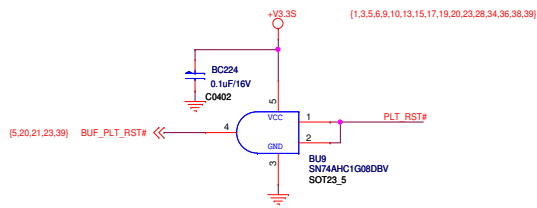


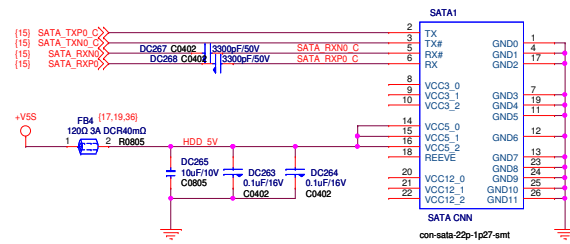
6x6 LEDs
 $V=3V * 6 = 18V$
 $I=20mA * 6 = 120mA$
 $W=2.1W$

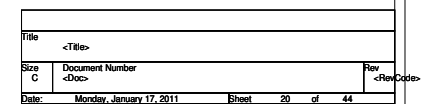
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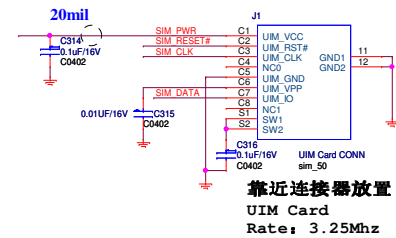


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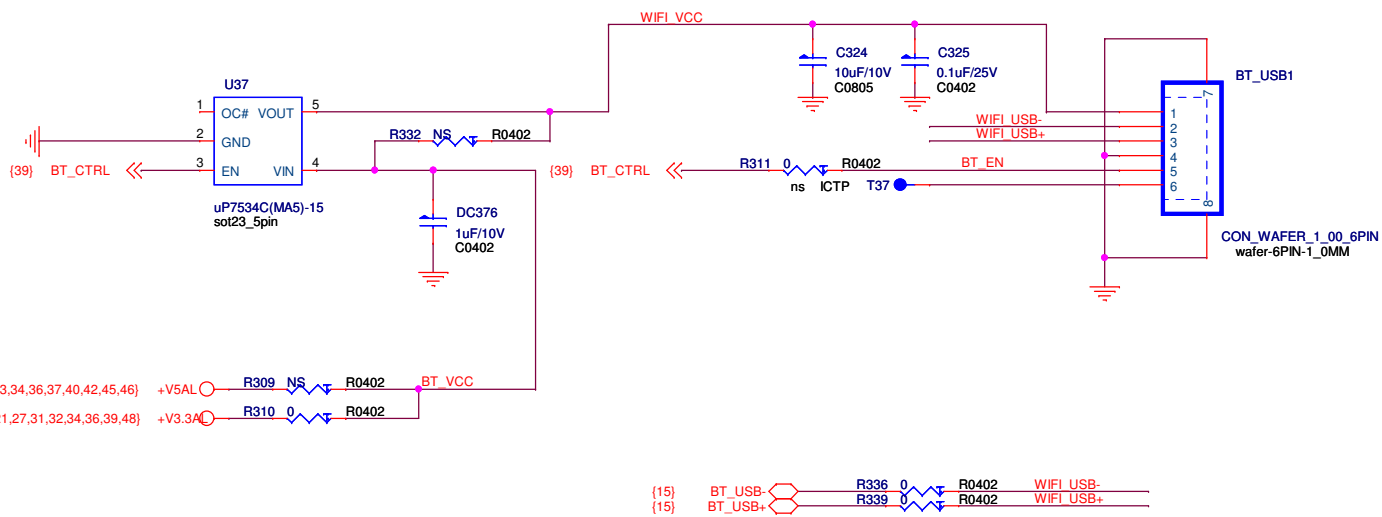






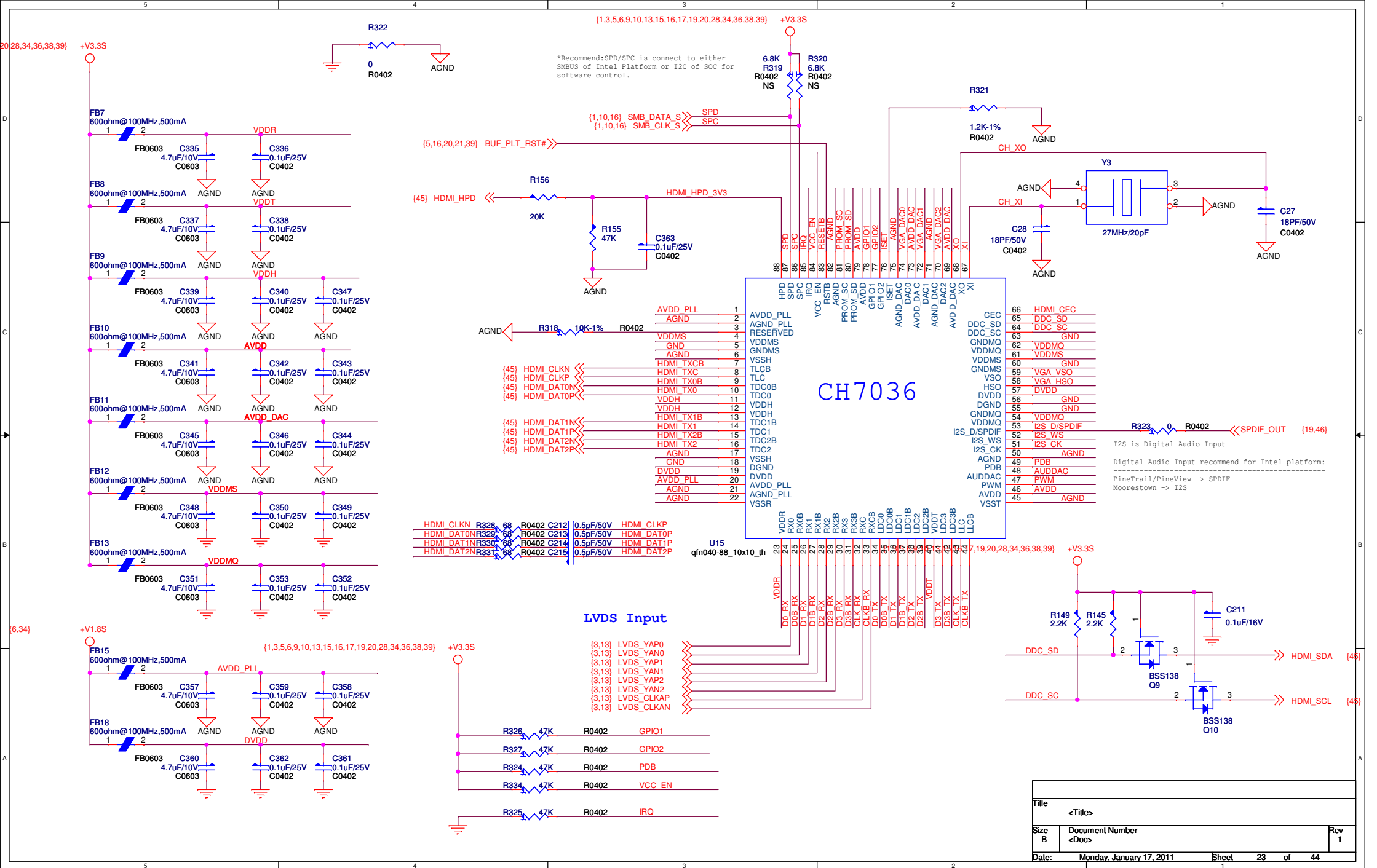


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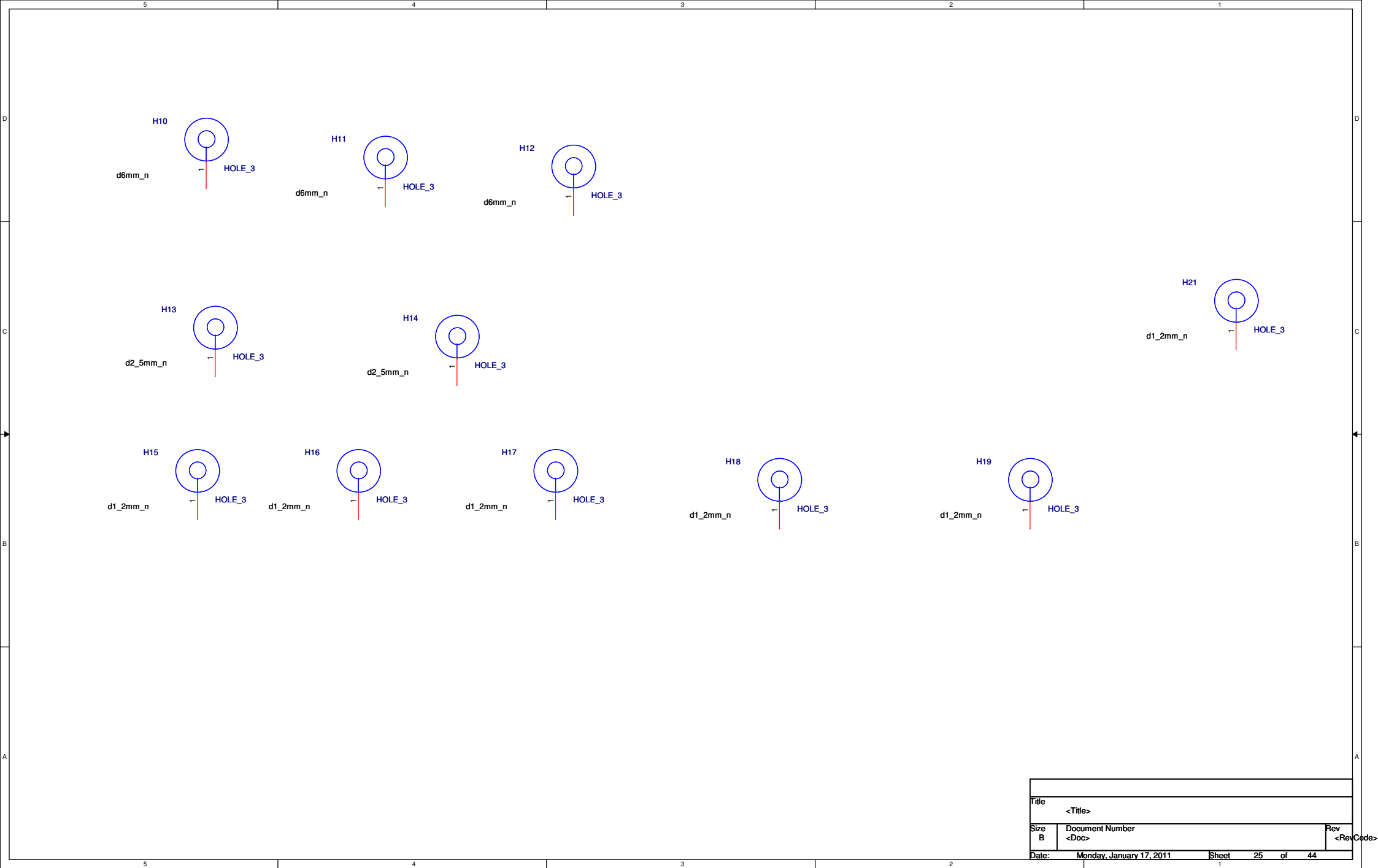
增加可选配的模块.如蓝牙, GPS等外设.

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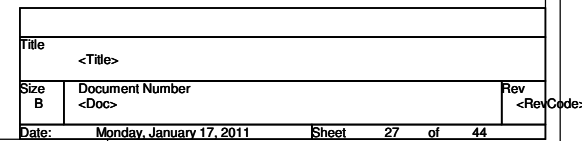


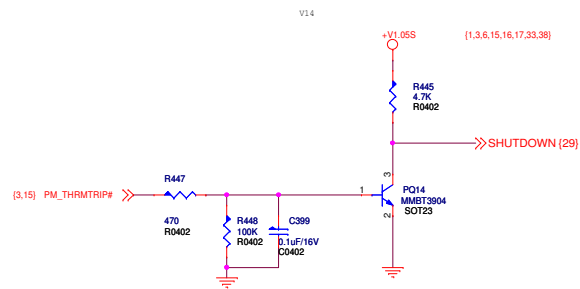
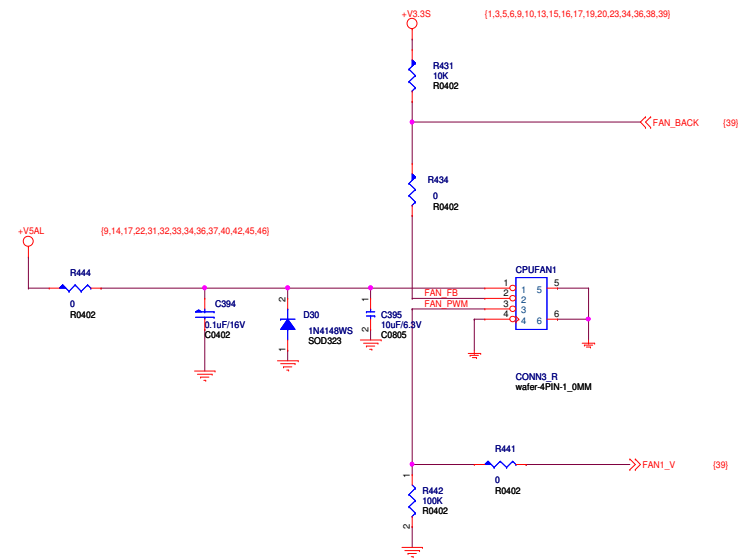
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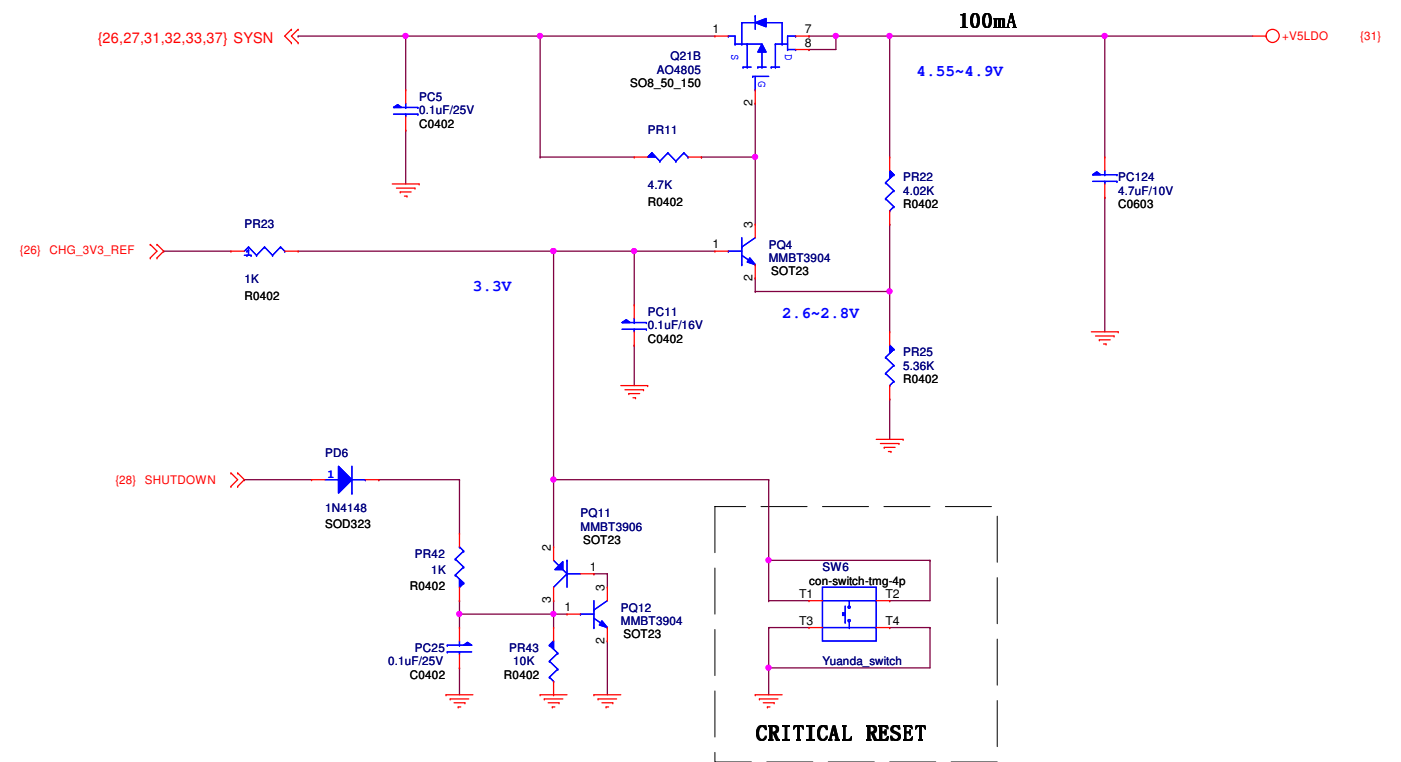
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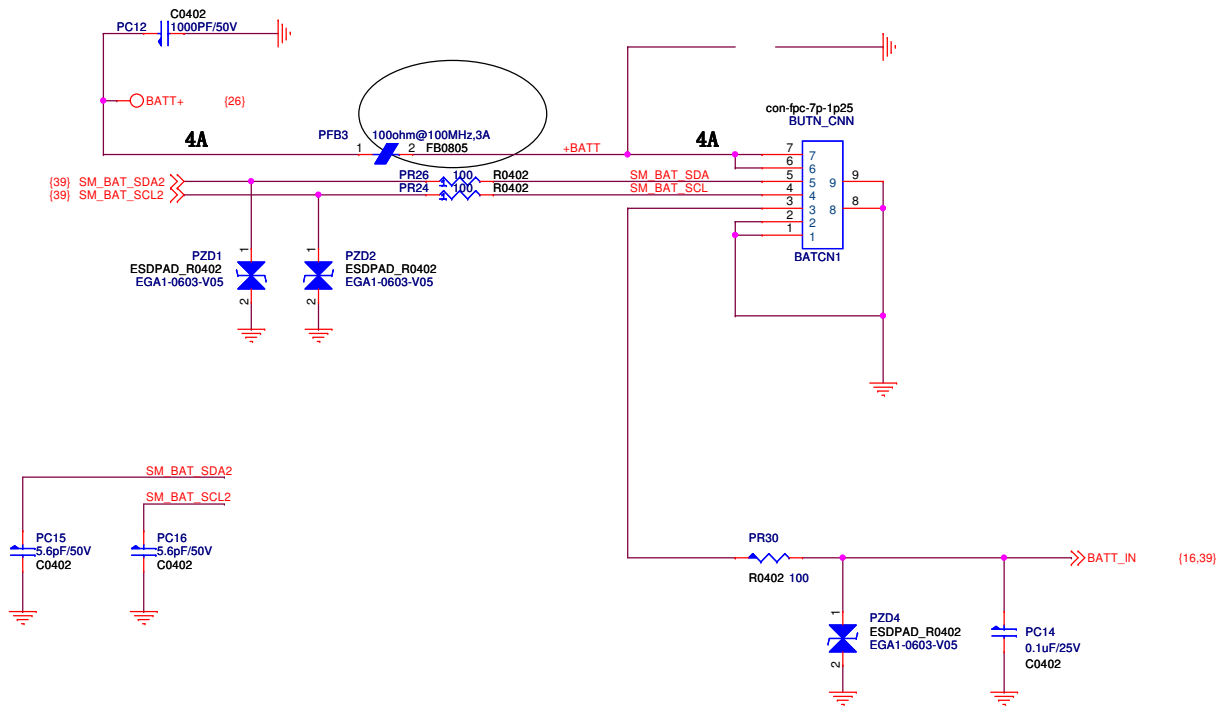


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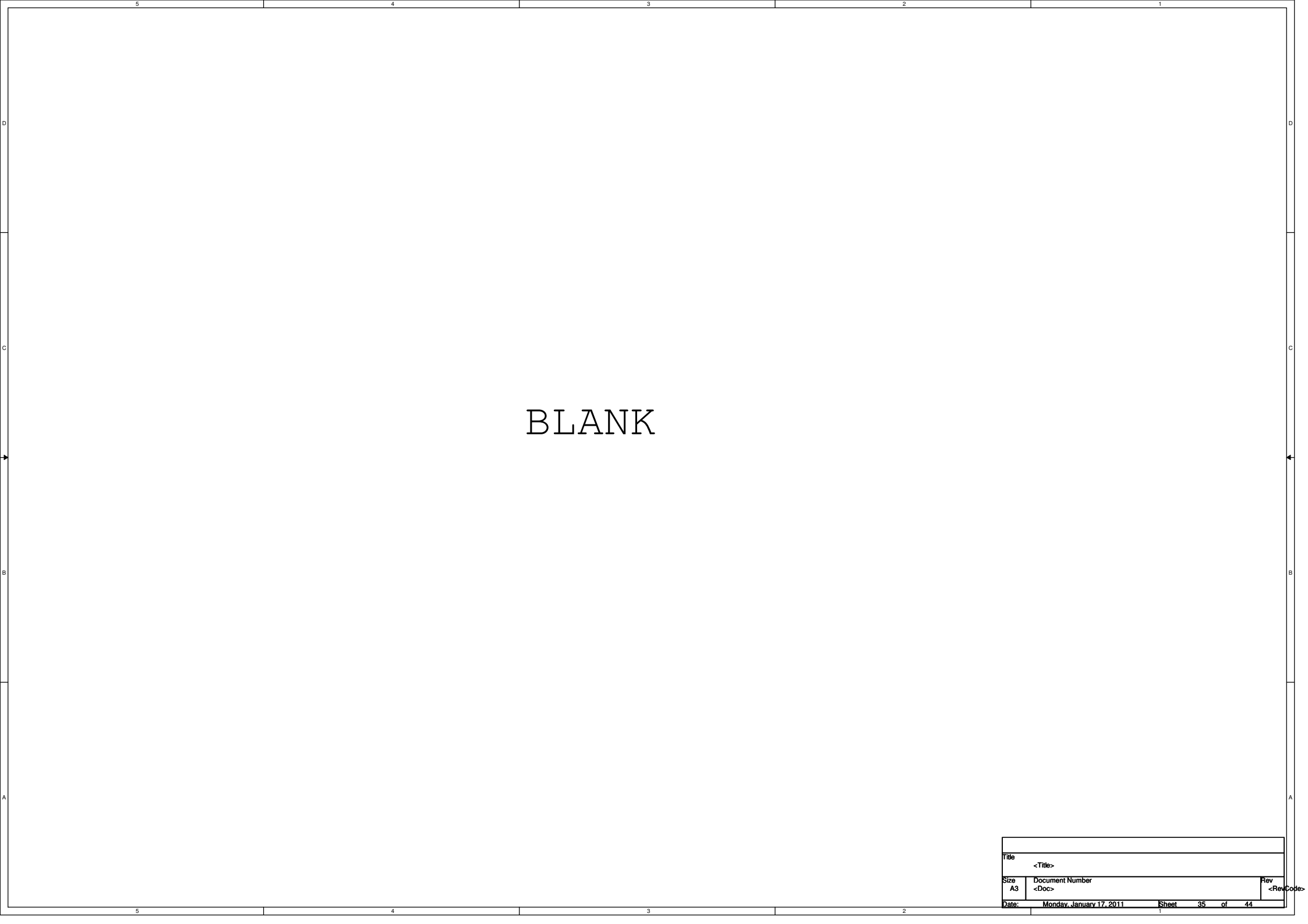






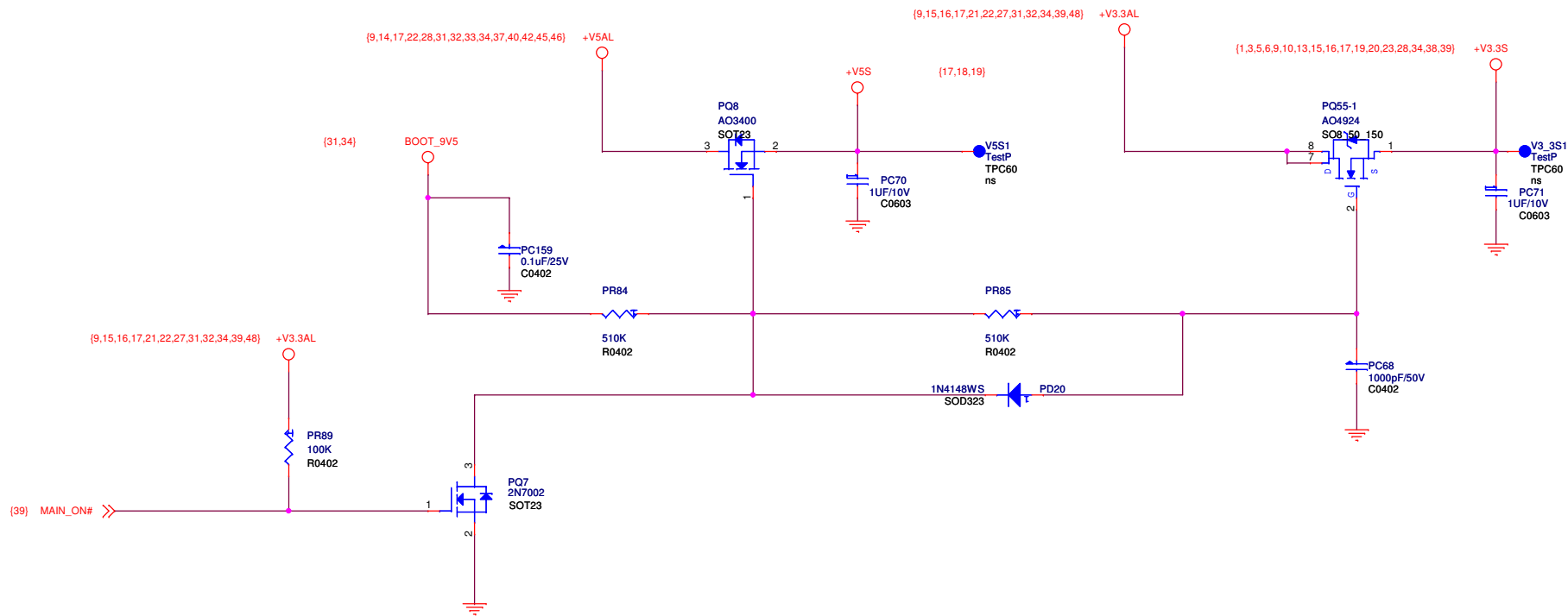


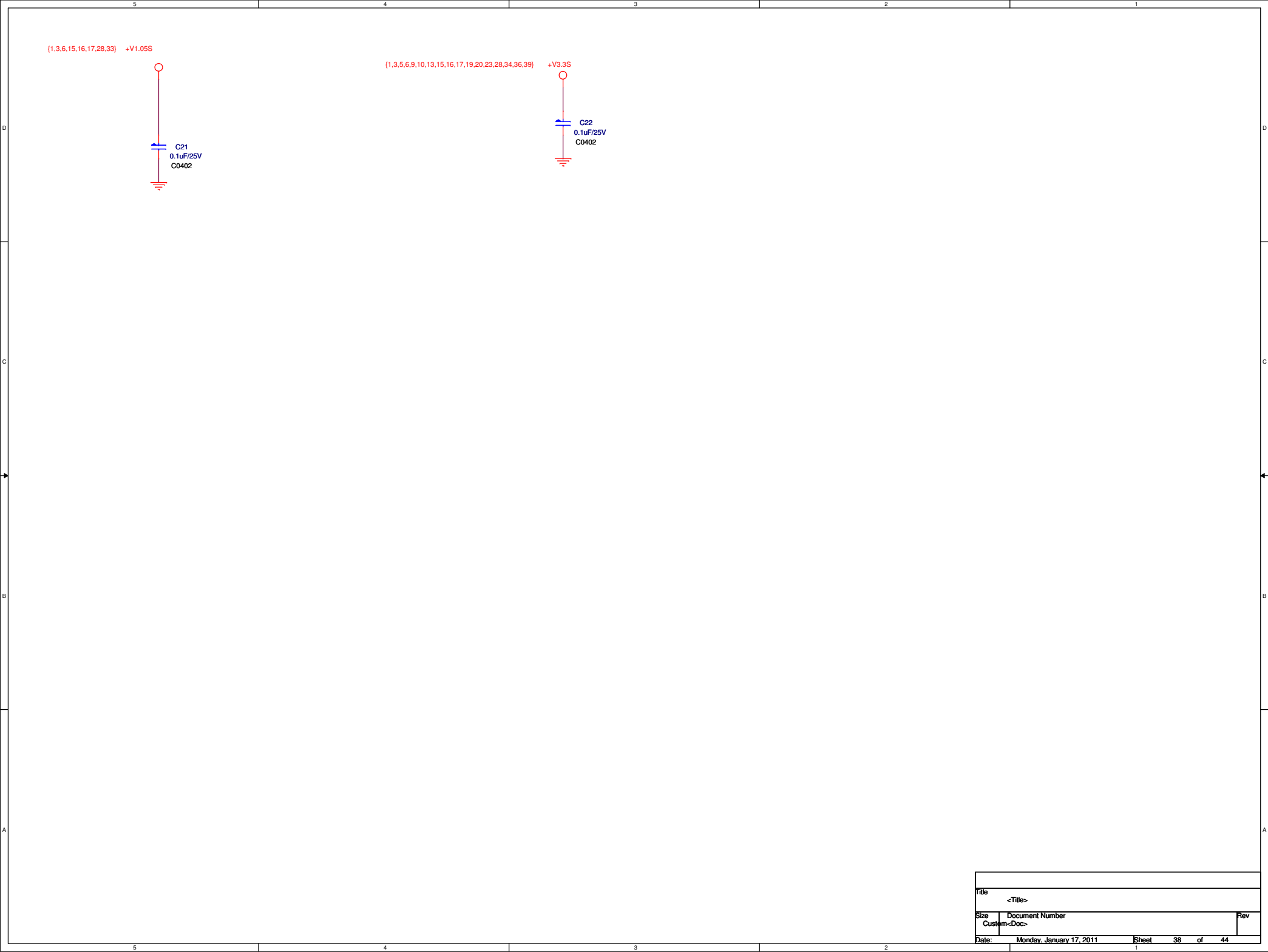
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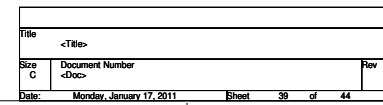
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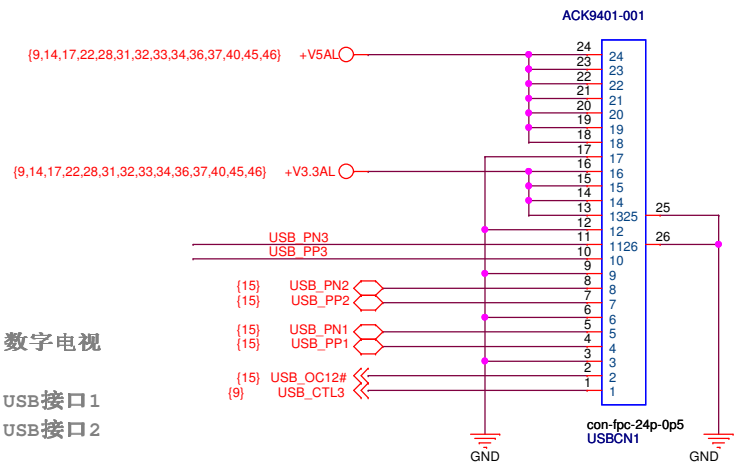


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主板连接器

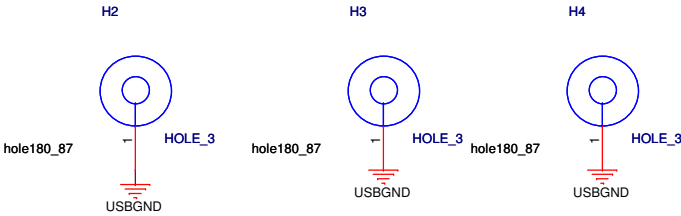
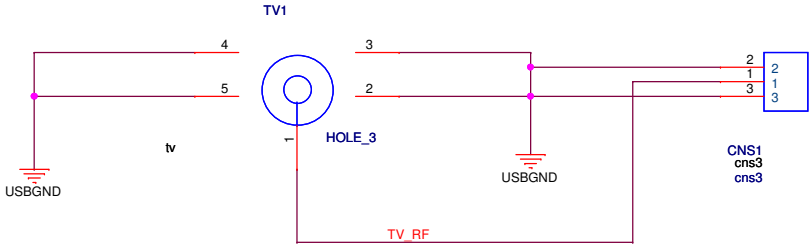
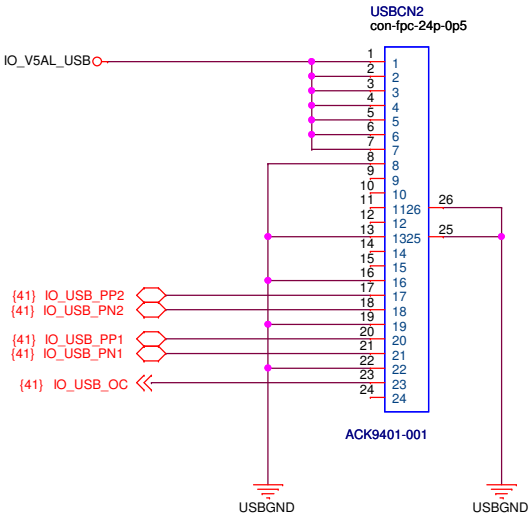
USB小板连接器



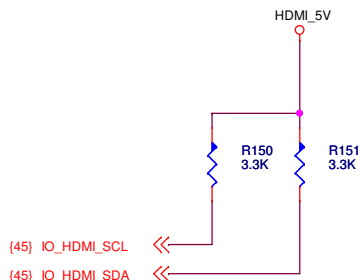
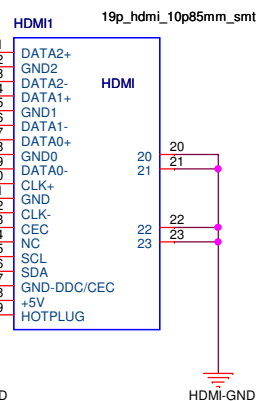
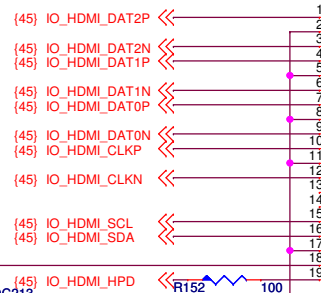
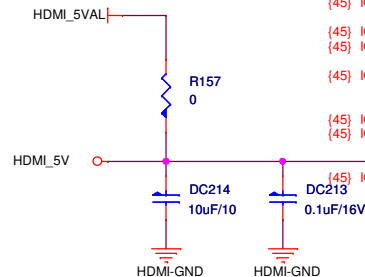
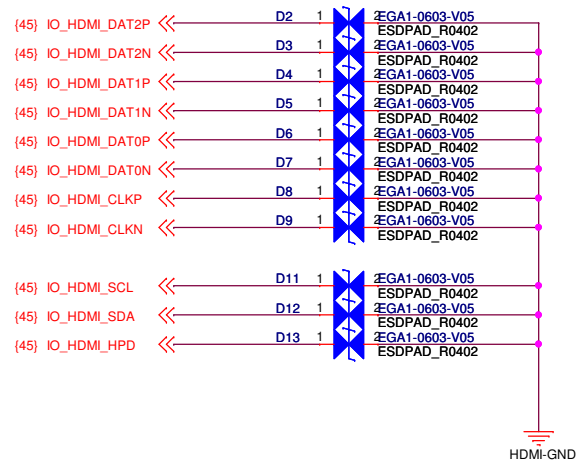
数字电视

USB接口1

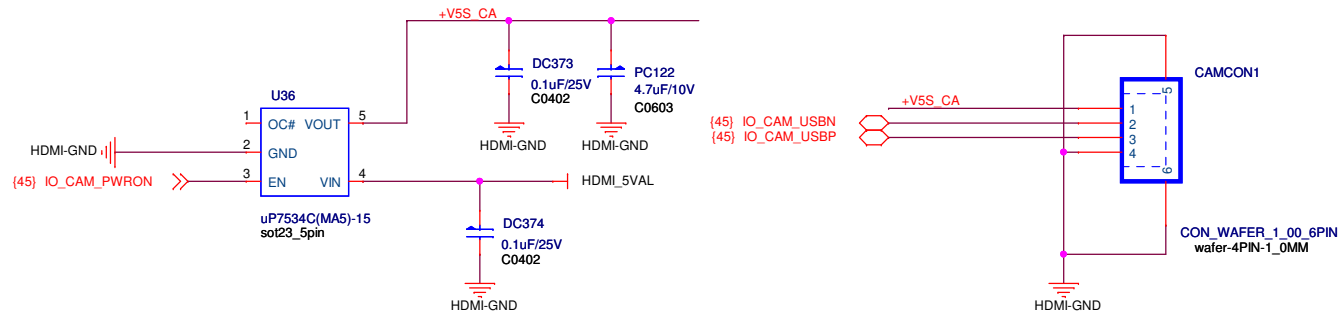
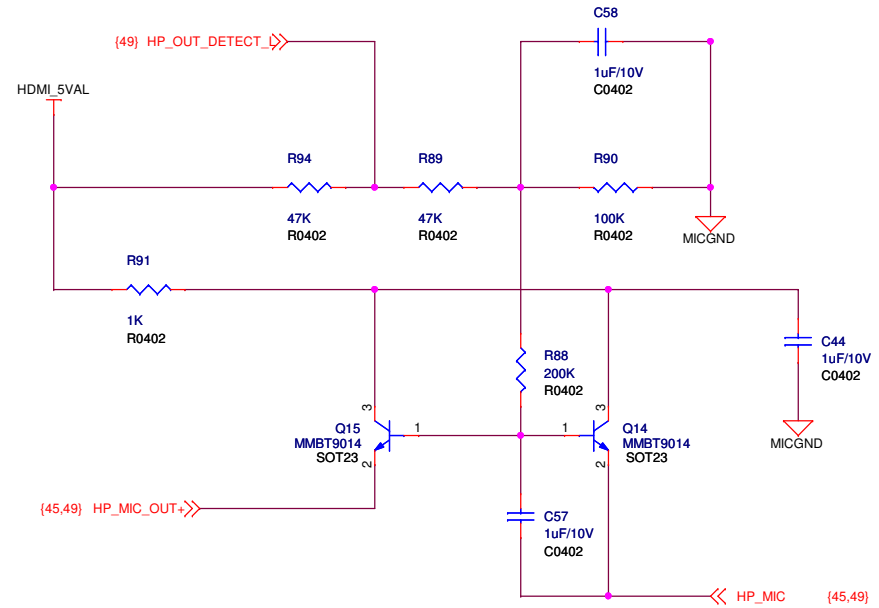
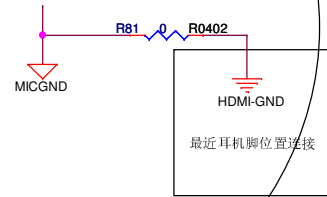
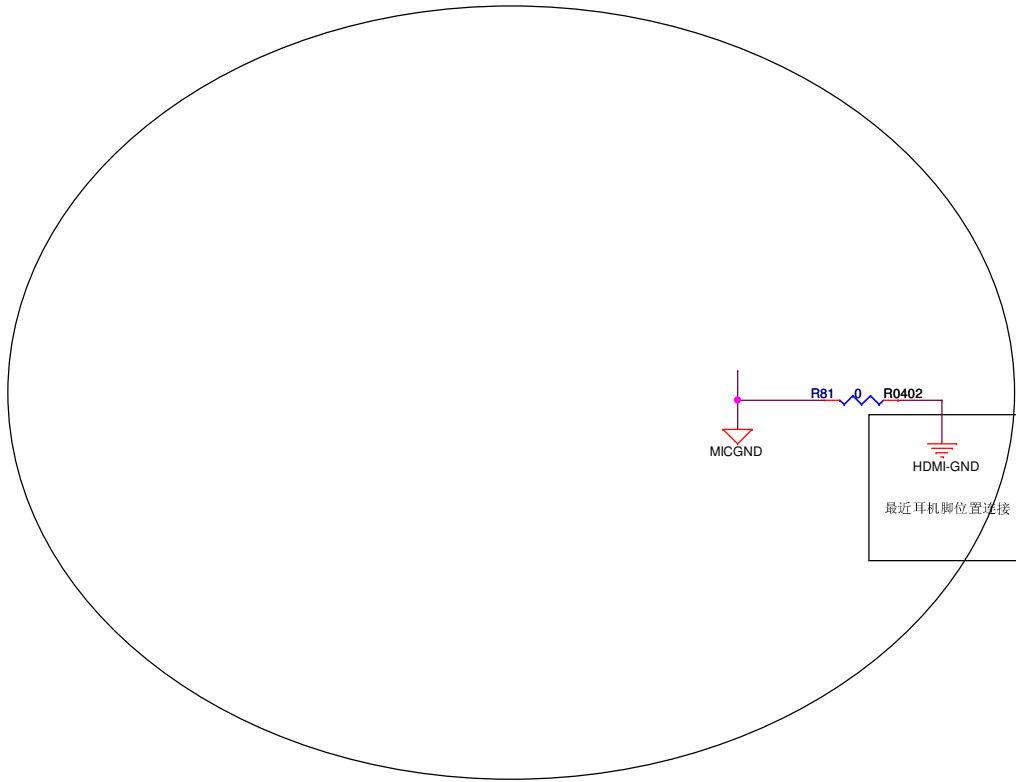
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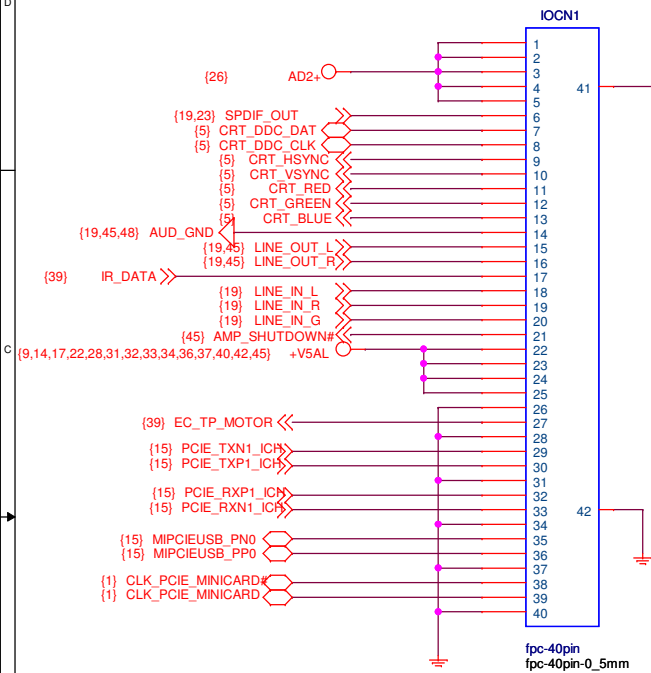
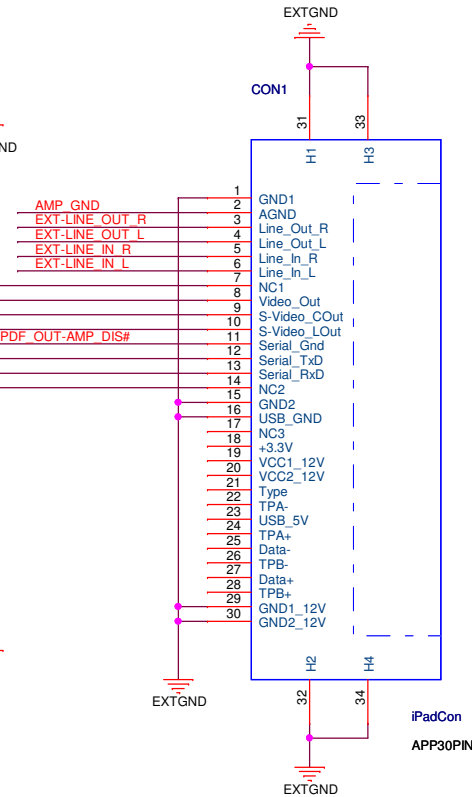
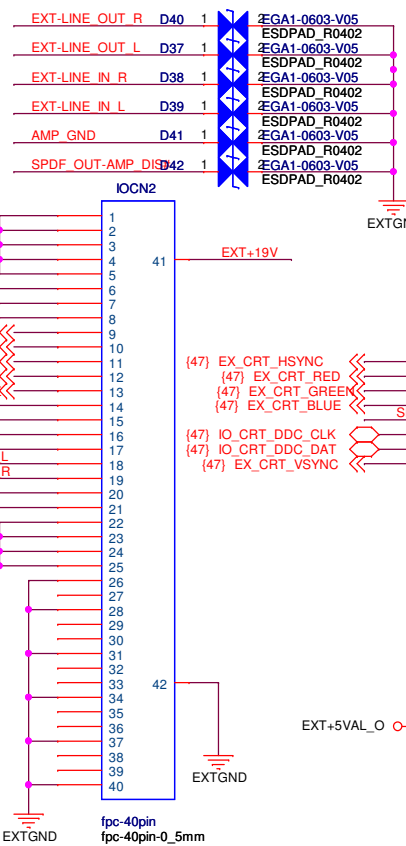
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AD2+

铺铜干涉, 改为AD2+

[illegible]

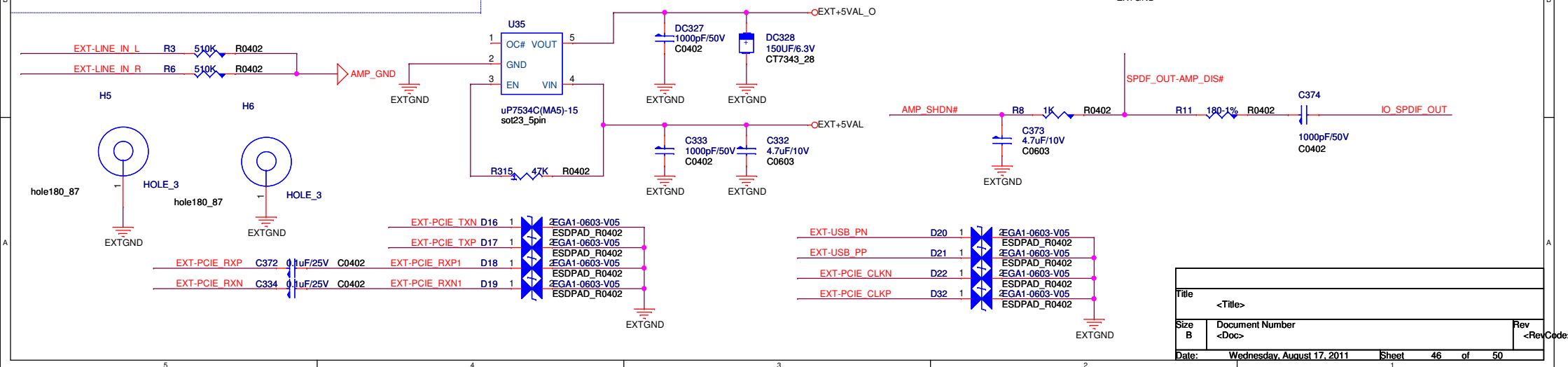
If you disassemble the original apple-ipod-dock-connector-cable and look at the connector itself, on the back side, where it is soldered, you can see the number 1 and 30 (e.g. pin 1 and 30). In this description NUMBERING is INVERSED: pin 1 is pin 30 and pin 29 is pin 2, so, don't look at numbers on connector.

The remote control, iTalk and other serial devices use Apple Accessory Protocol for communication with iPod. This protocol was introduced with the 3rd generation iPods, and is also compatible with the 4th generation iPods and mini iPods. The connections uses a standard 8N1 (one startbit 8 data bits 1 Stopbit) serial protocol, 19200 baud (higher rates up to 57600 also possible, but speed faster than 38400 may cause problems with large amounts of data), delay of 12 microseconds inserted between end of the stopbit and the beginning of the next startbit (also working without this delay).
Electrical: high +3,3V low 0V
default line state: high. Codes used for communication with peripherals are here

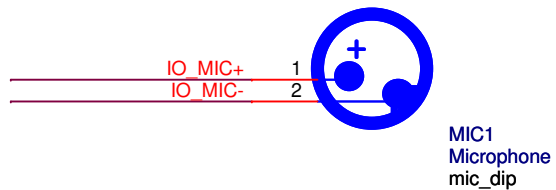
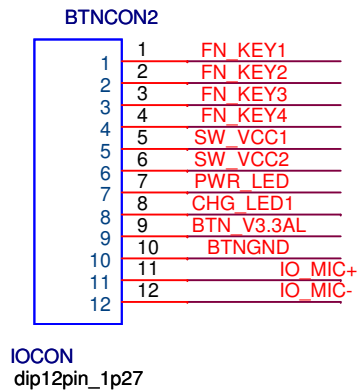
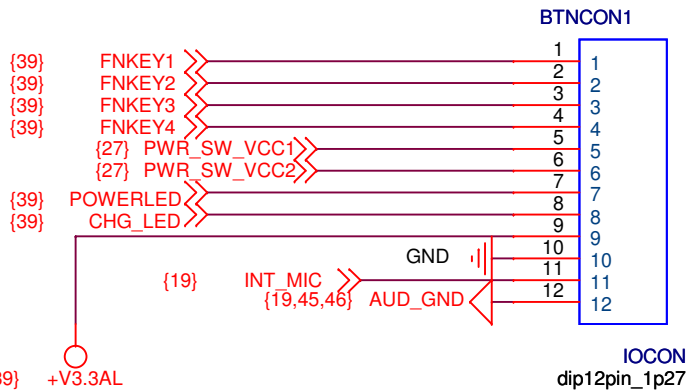
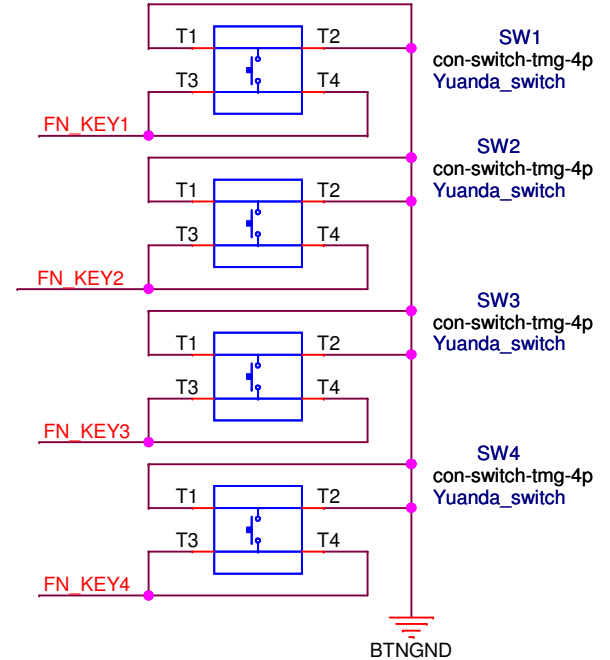
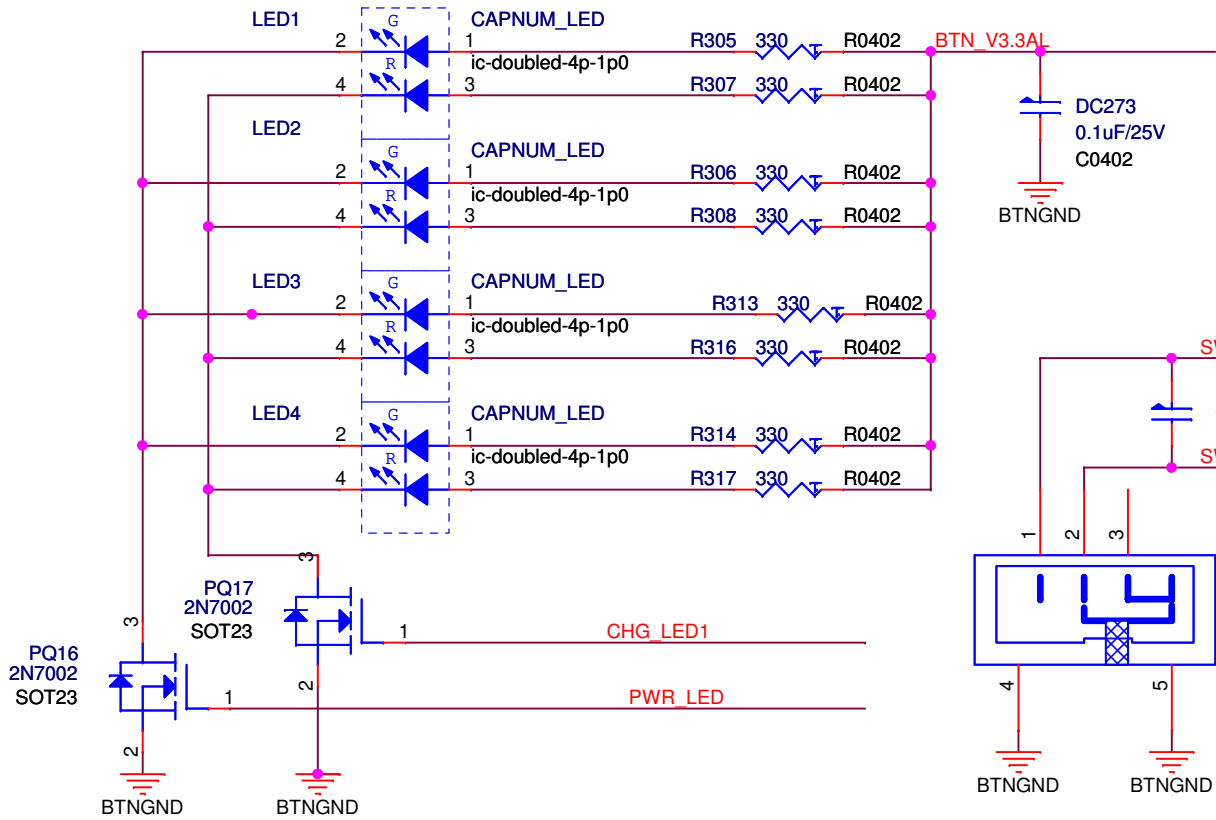
This device may be connected to the firewire computer port by straight cable (TPB+/-, TPA +/- should be twisted pairs in cable)

iPod Nano 4th Gen no longer will charge from 12 volts on the firewire pins. If you tie pins 25 and 27 together through a 10K ohm resistor while applying +/- 5 volts to pins 23 and 15 (or 16) that it will charge. If you don't tie 25 and 27 together, it won't charge.

iPod Touch 2G requires pin 11 connected to 15/16, then connect that to pin 21 with a 68kOhm resistor to use the audio line out. This is because the device needs to be told to redirect the signal to the Line Out pins rather than to the built-in speaker. This explains why certain accessories won't work with the iPod Touch 2G and maybe even the iPod Touch 3G. The Nano 5G will require the pin 11 connection but not the 68kOhm resistor for redirecting audio.



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主板连接器

KEY小板连接器

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