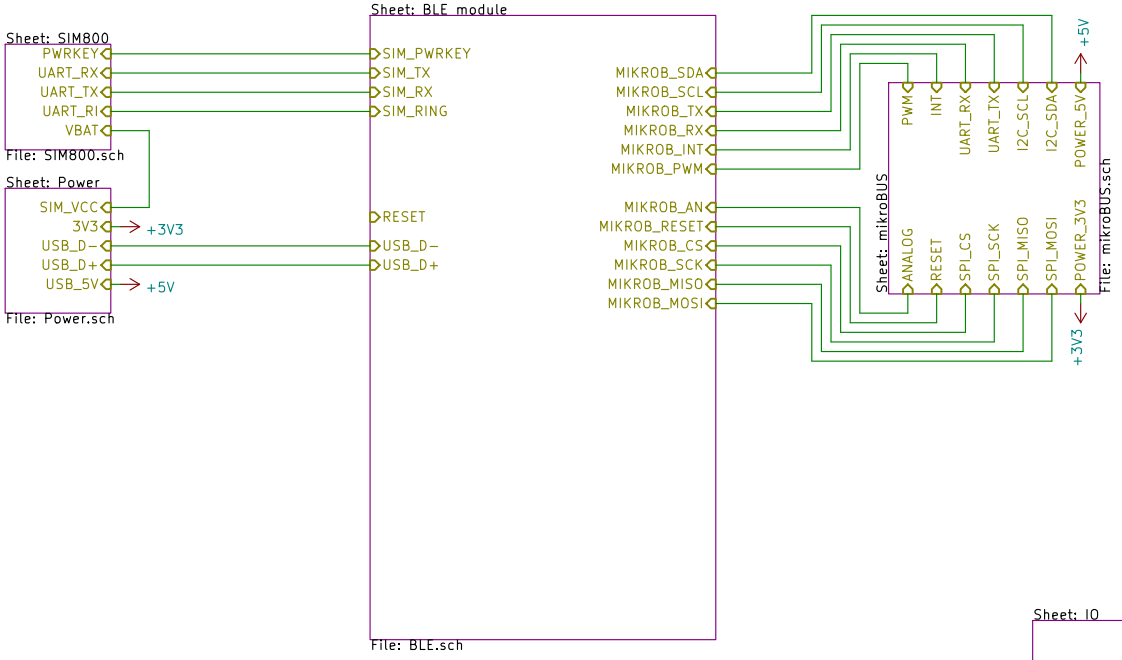


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**Title: uGSM-2G-BLE-board**

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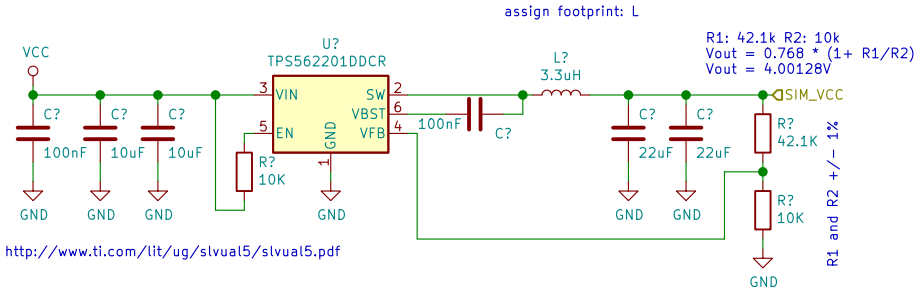
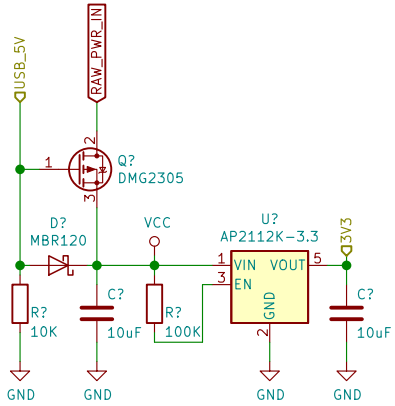
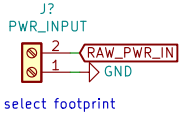
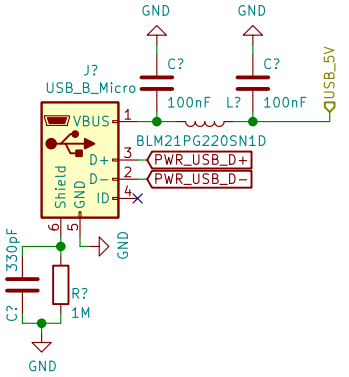
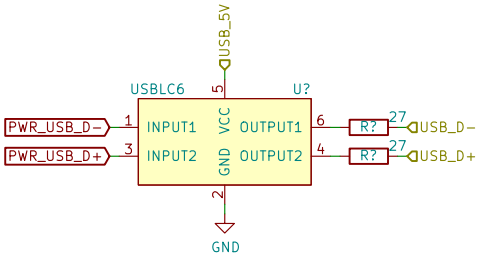
**!! check http://www.ti.com/lit/ds/symlink/tps562201.pdf Layout Guidlines !!**

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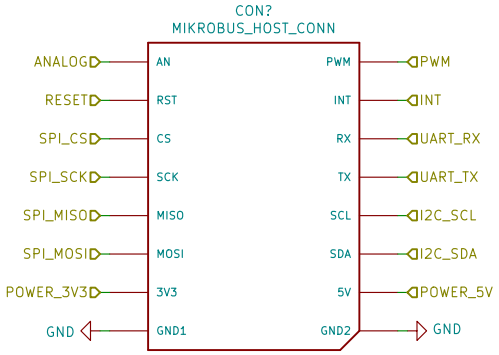


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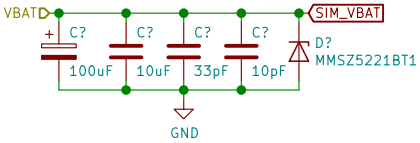
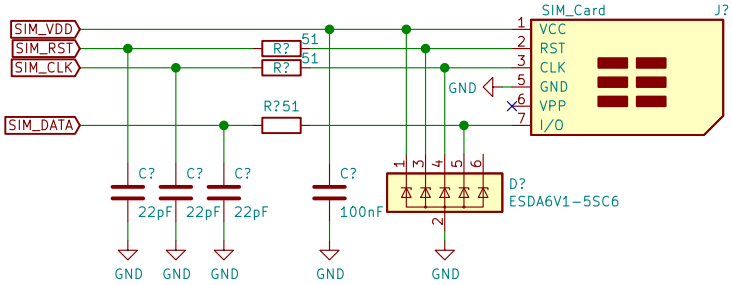
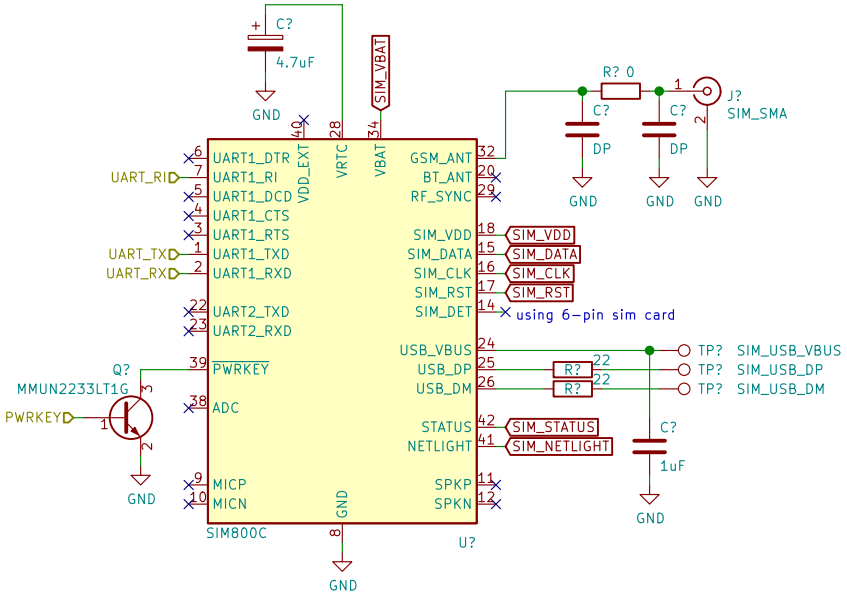
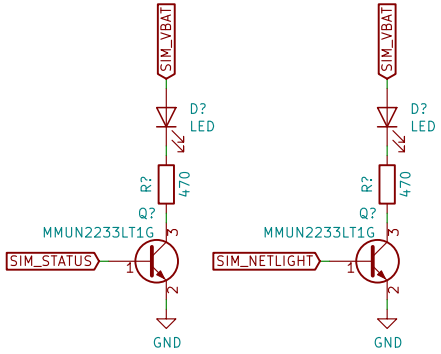
! Not only VBAT but also return GND are very important in layout
! The positive line of VBAT should be as short and wide as possible;
! The correct flow from source to VBAT pin should go though Zener diode then huge capacitor;
! Pin 36 and Pin37 are GND signals, and shortest layout to GND of power source should be designed;
! There are 10 GND pads in the module; these pads could enhance the GND performances.
On the upper layer of these pads, do not trace any signal if possible.




! SIM card holder should be far away from GSM antenna
! SIM traces should keep away from RF lines, VBAT and high-speed signal lines
! The traces should be as short as possible
! Shielding the SIM card signal by ground well
! Keep SIM card holder's GND connect to main ground directly

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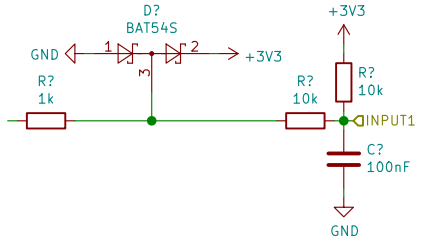


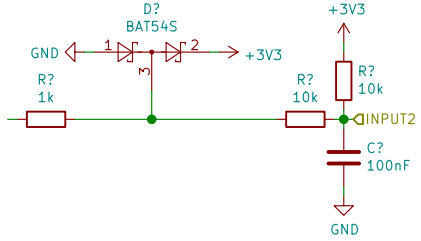


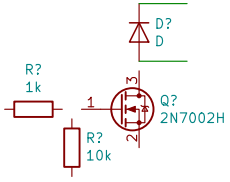


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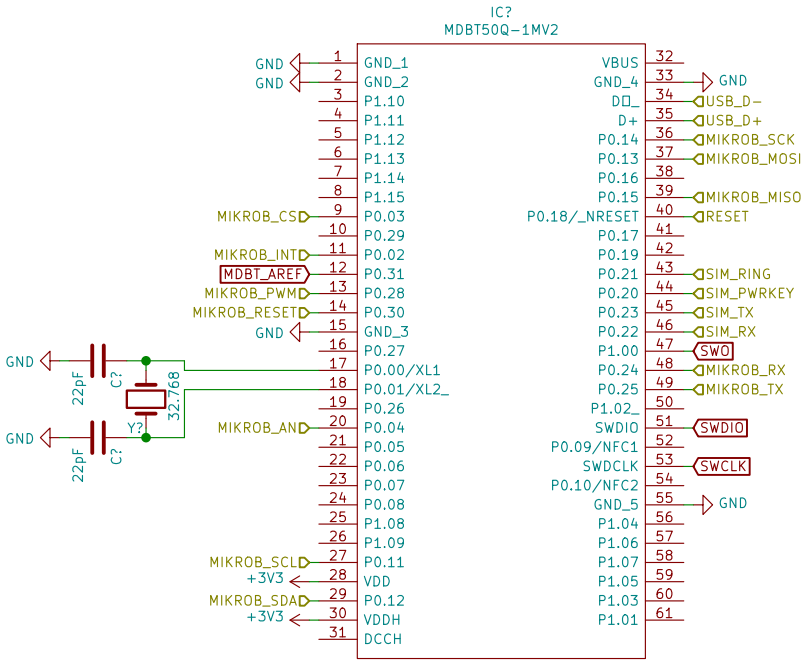


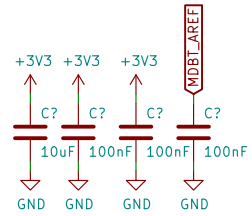



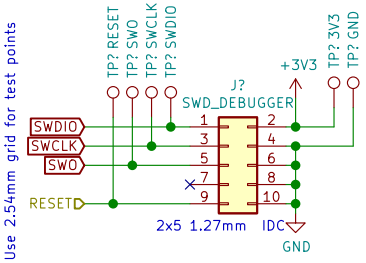


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