

Model : USB Bluetooth Debug Card

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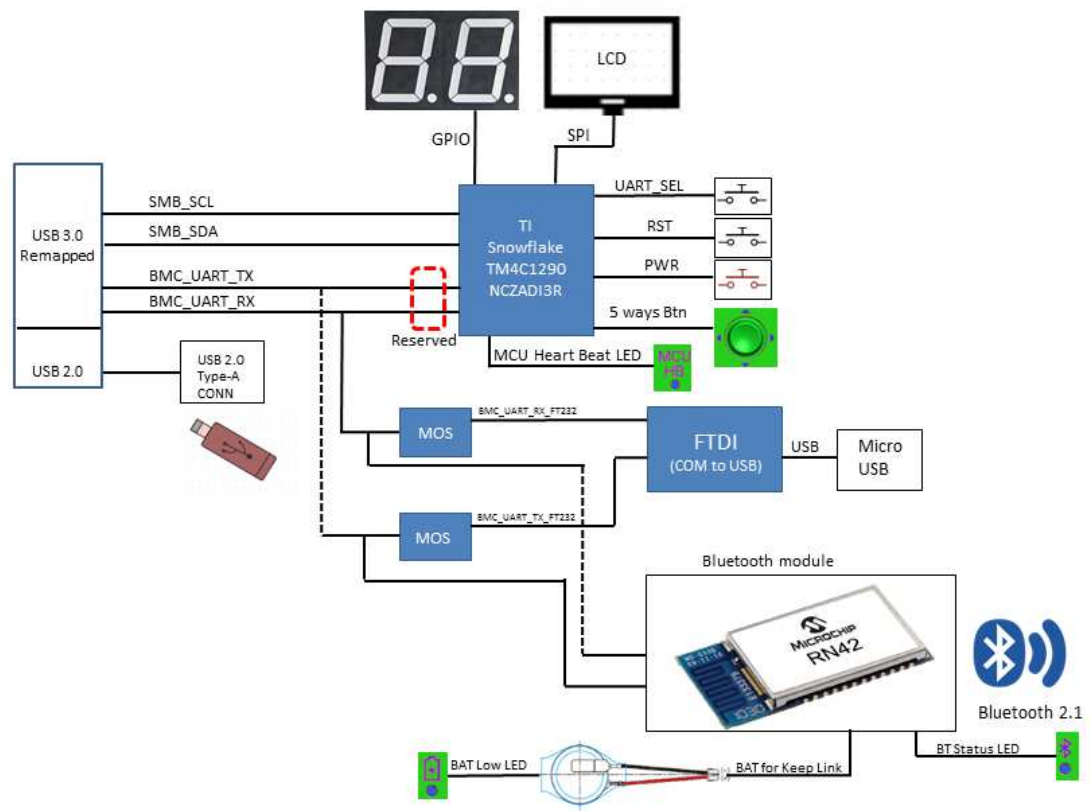
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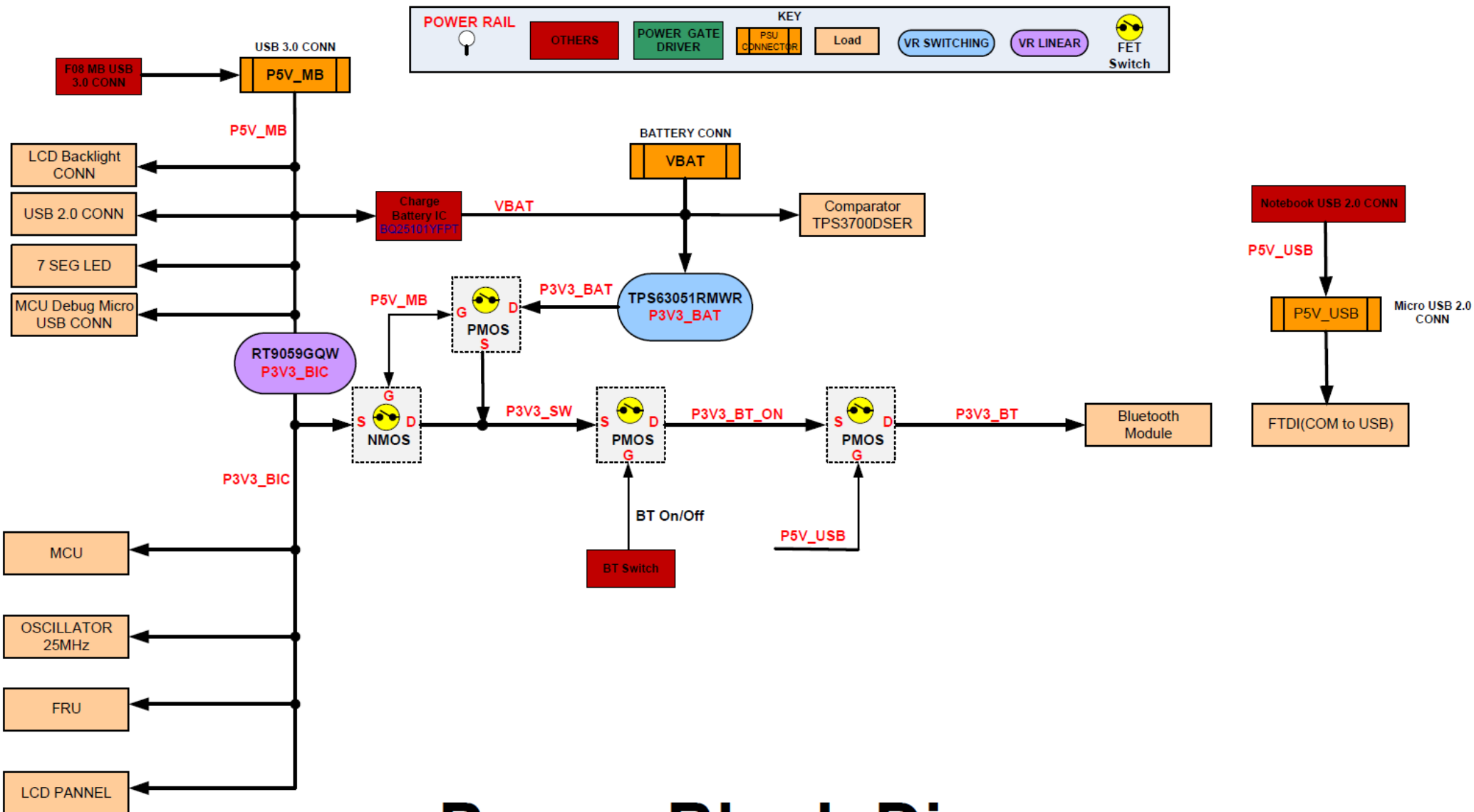
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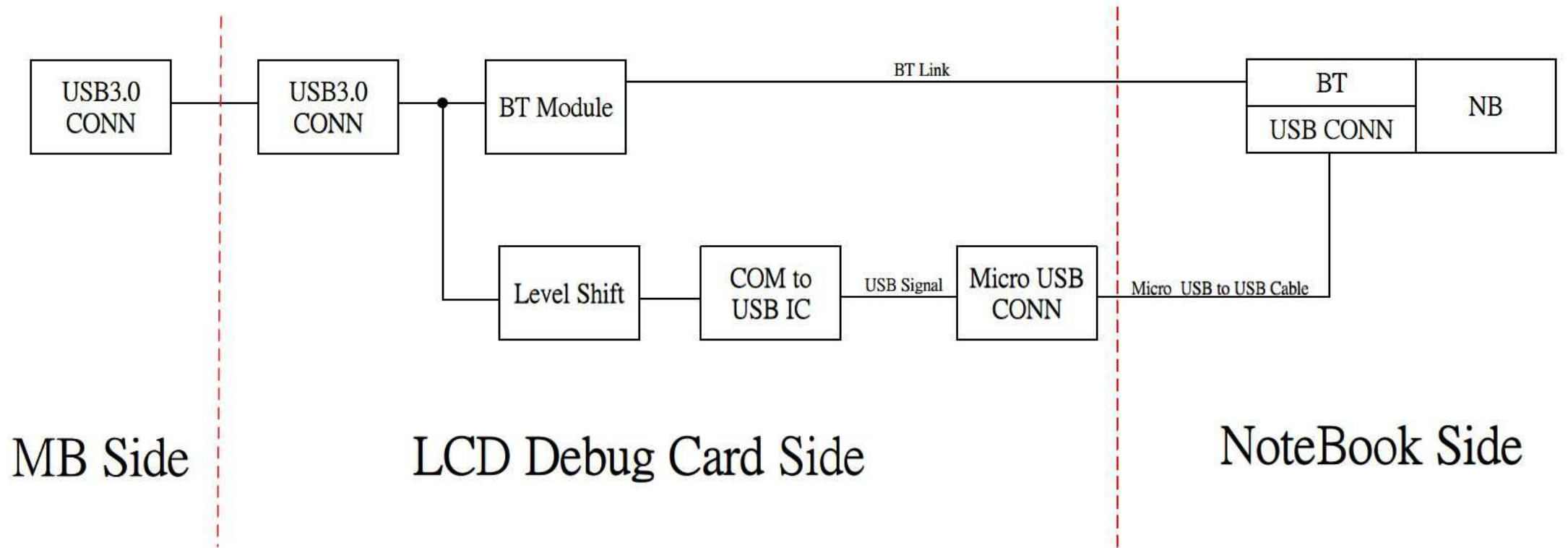
BLOCK DIAGRAM





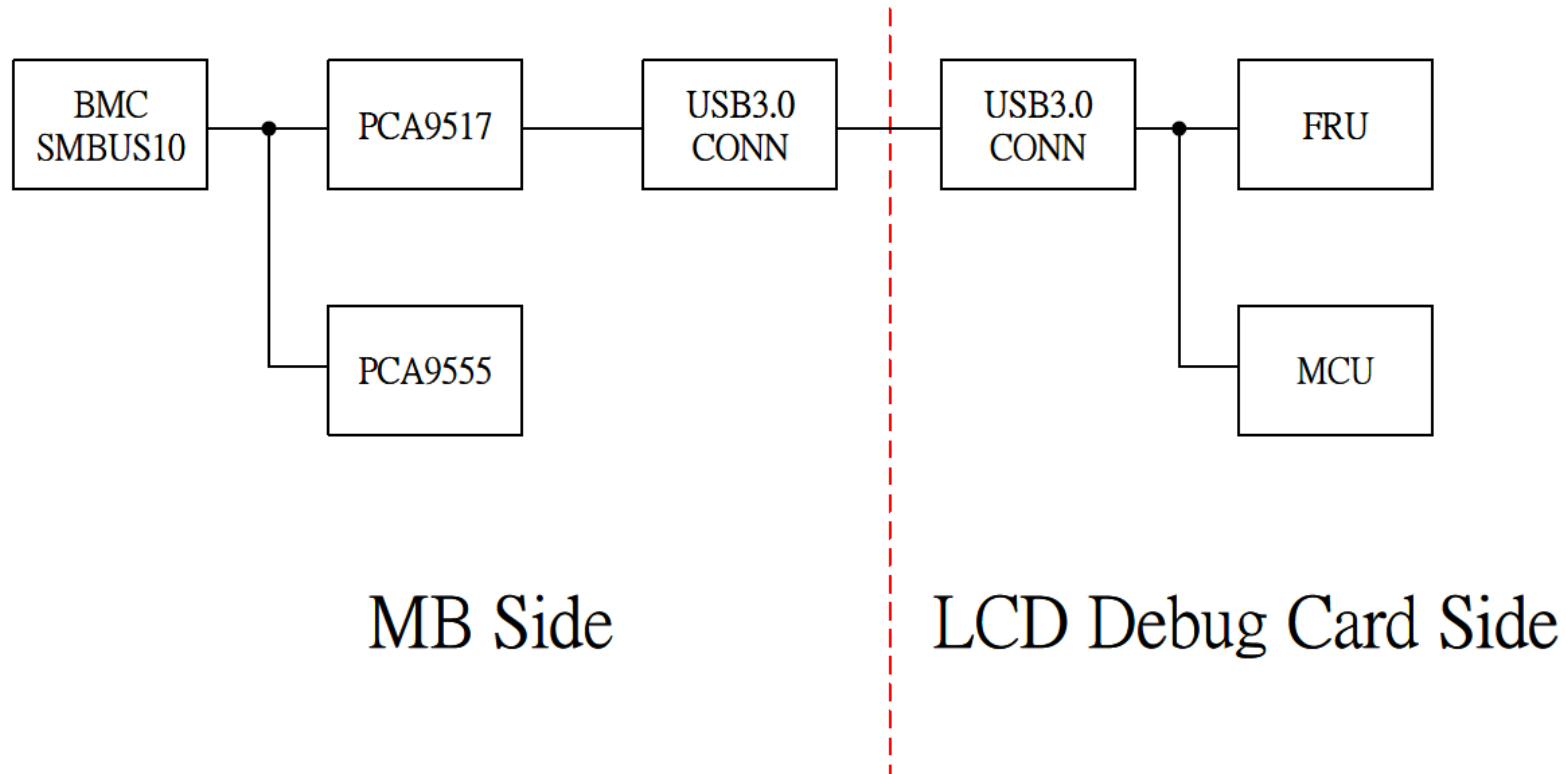
Power Block Diagram

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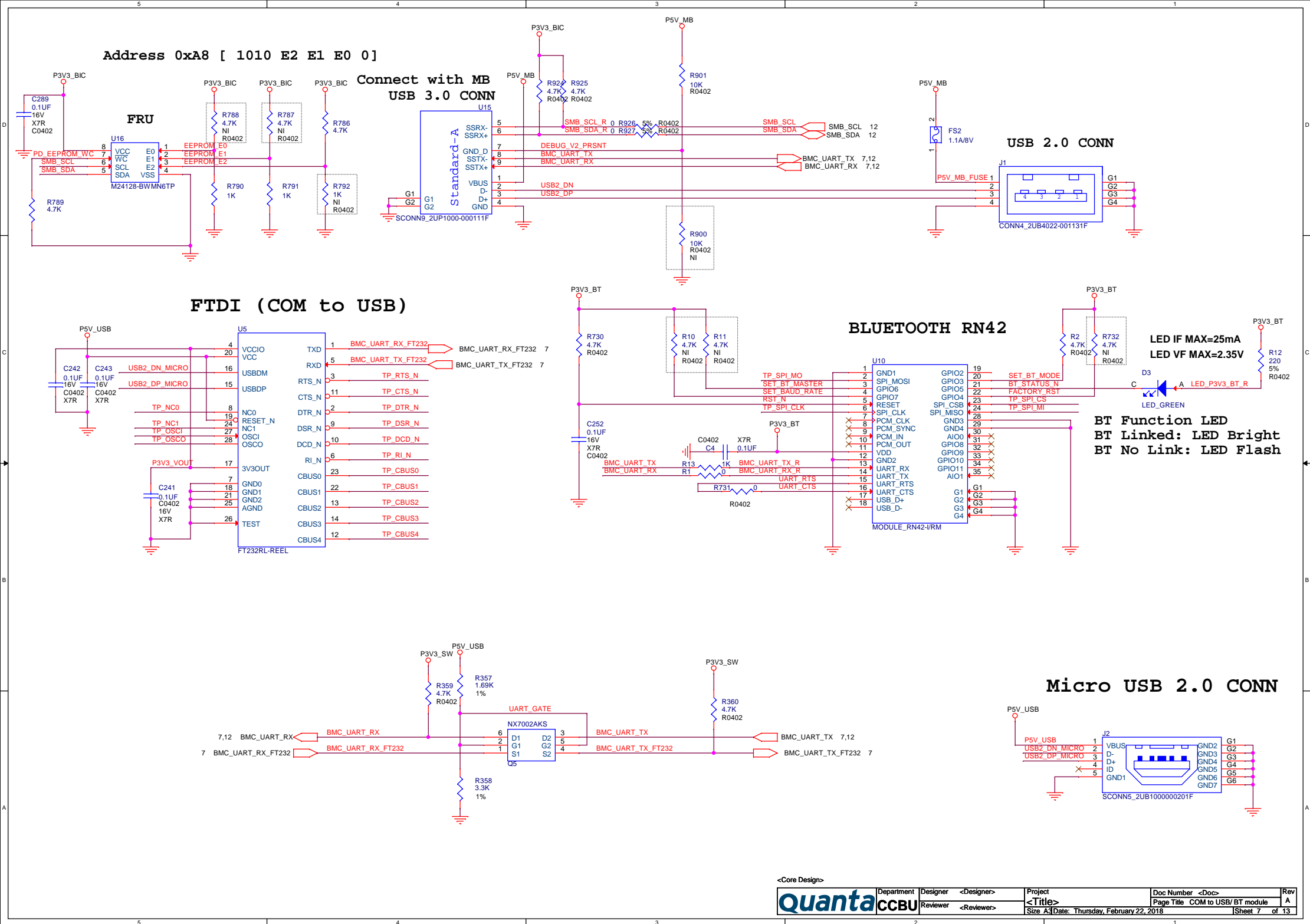


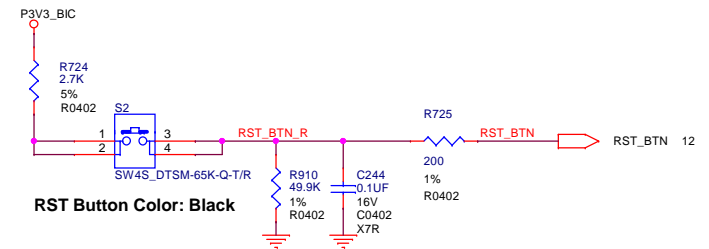
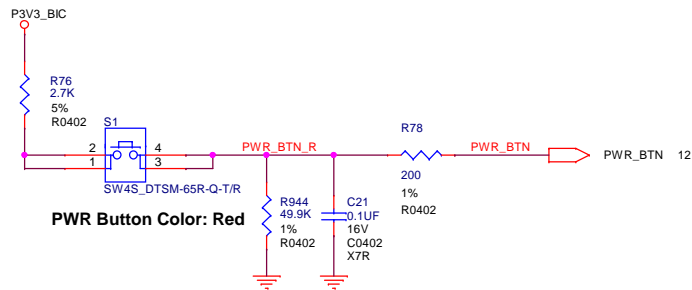
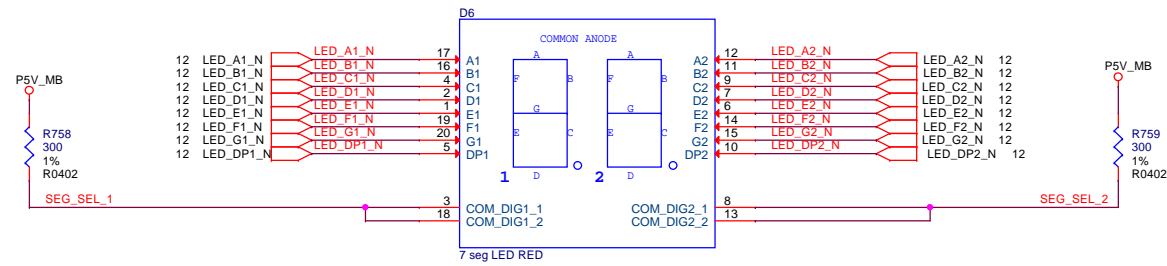
UART Block Diagram

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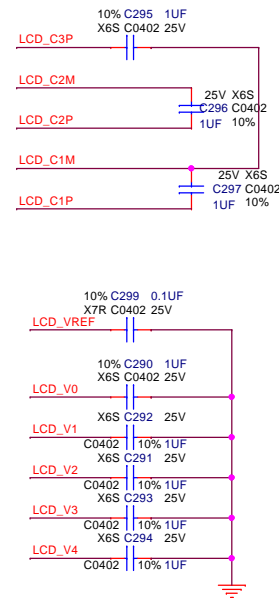
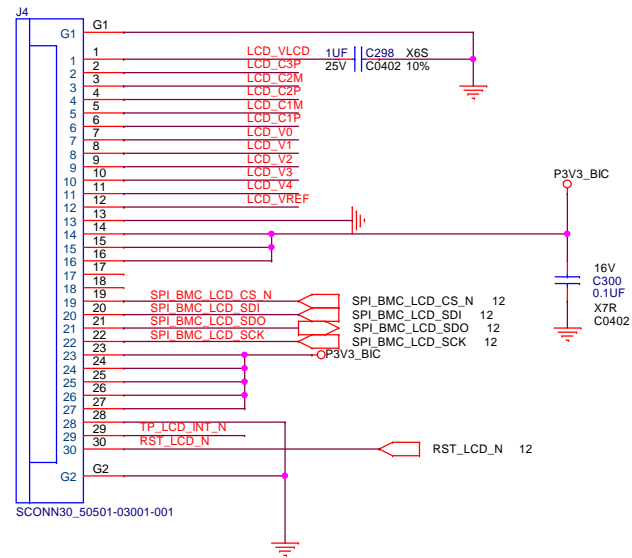
SMBUS Block Diagram



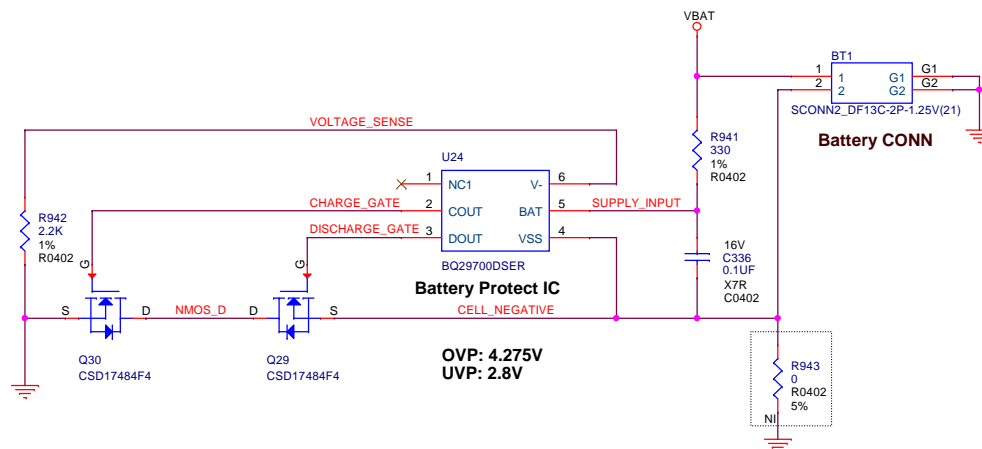
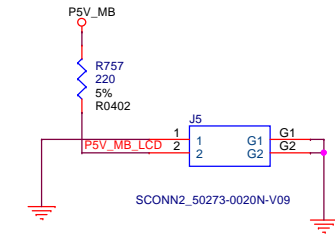


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LCD FPC connector



LCD Backlight connector

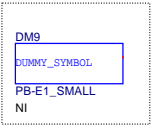


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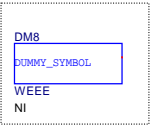
LASER MARK



PB-E1



WEEE

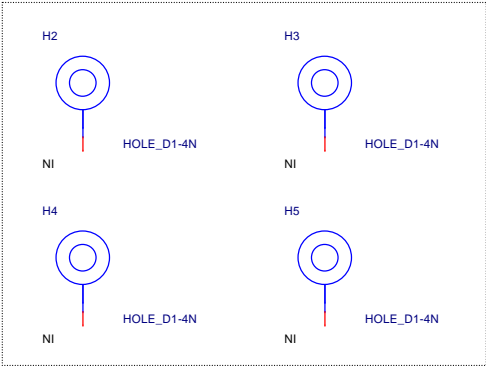


ME parts brkt LCD Rubber

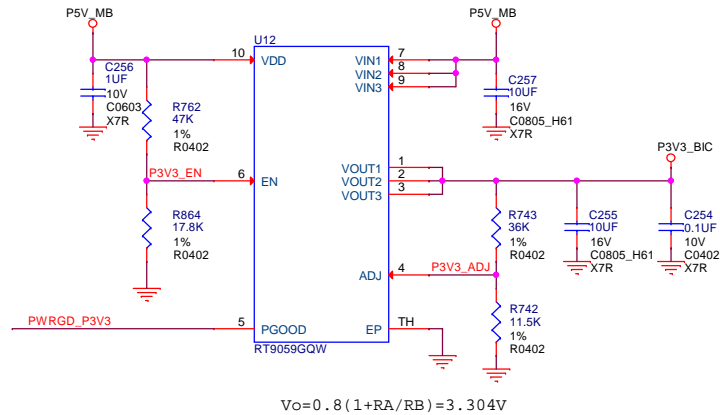
TP7
TP_BOM

<Part Number>

LCD HOLE



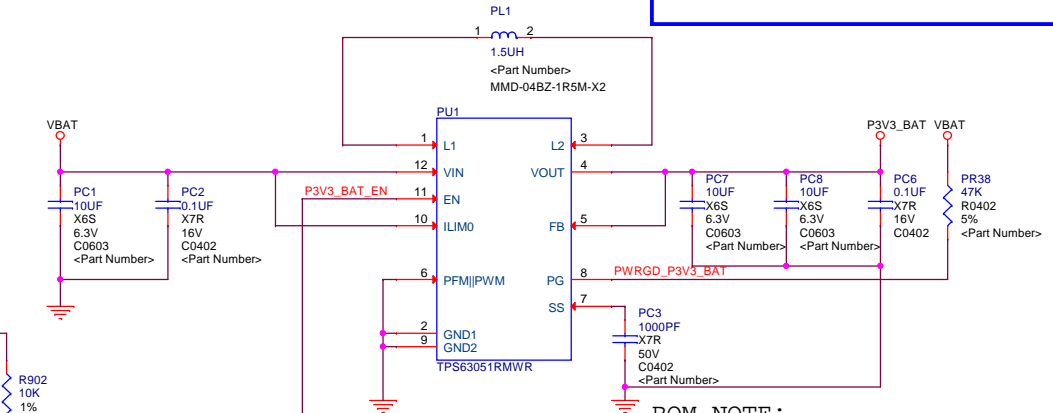
P5V_MB to P3V3 LDO



VBAT to P3V3_BAT BUCK_BOOST

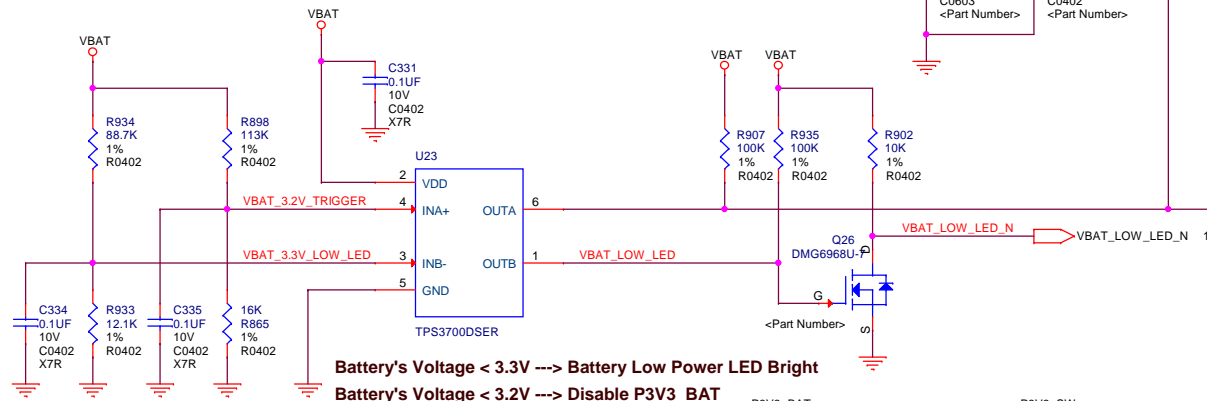
Design specification

Output Voltage = 3.3V±5%
Output Ripple & Noise < 30mV
Transient Tolerance = 330mV
TDC = 0.1A
Max current = 0.3A
Over-Current Protection(IC Rating) = 0.48A
Current Step = 0.05A
Slew Rate = 0.05A/us
Work frequency = 2.5MHZ
Efficiency > 80% @TDC



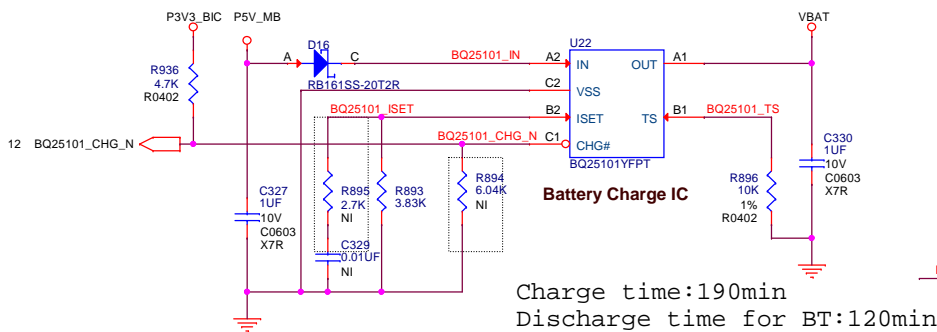
BOM NOTE:

Q13 will use BAM34150000
Vth max= - 1 V



Battery's Voltage < 3.3V ---> Battery Low Power LED Bright

Battery's Voltage < 3.2V ---> Disable P3V3_BAT



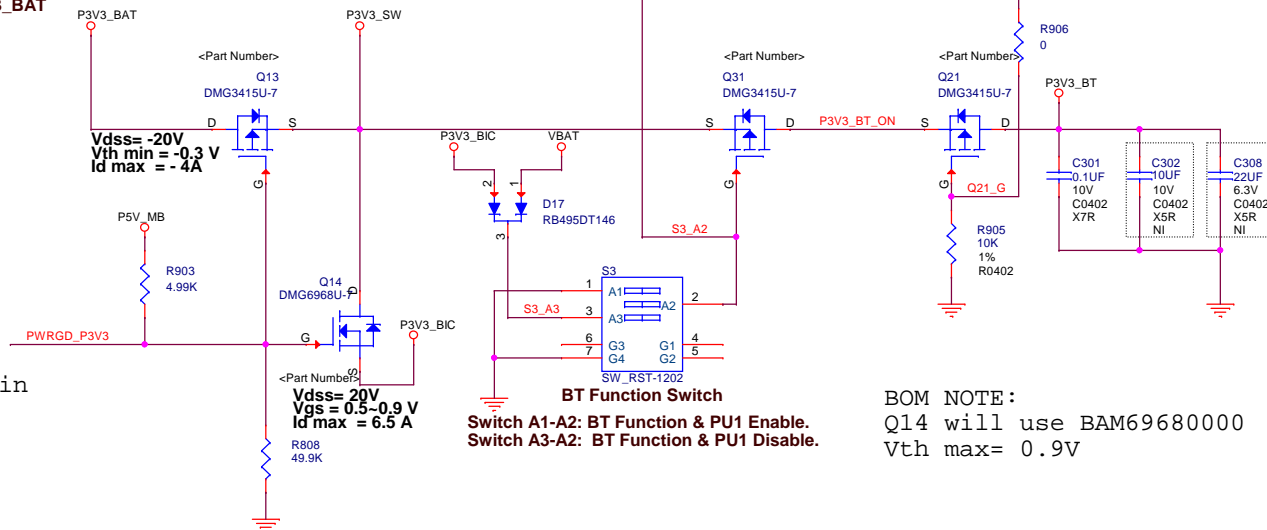
Charge time:190min

Discharge time for BT:120min

U22 CHG#:

Low (FET on) indicates charging and open drain (FET off) indicates no charging or the first charge cycle complete.

After termination, if the OUT pin voltage drops to VRCH (100mV below regulation) then a new charge is initiated.



BT Function Switch

Switch A1-A2: BT Function & PU1 Enable.
Switch A3-A2: BT Function & PU1 Disable.

BOM NOTE:

Q14 will use BAM69680000
Vth max= 0.9V

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