vA

Hello!

Glad to have you on board for the project!

As the board sits, we have the components and circuits in their general position, and a rough wire up completed. We are looking for someone to put the final polish on the design. Listed below is a list of changes that should be completed:

Footprint Changes:

1) Add physical area to footprint library of TL9210AF260Q. Update SW1, SW2, SW3, SW4, and SW6 in the PCB. Adjust components as necessary to ensure there are no conflicts.
2) Change J39 to a 2-pin 2.0mm **right angle** JST connector footprint. Align with edge of board accordingly.
3) Add physical area to footprint library of YSS-19-1202-N. Update SW5 in the PCB. Adjust component as necessary to ensure that there are no conflicts.

Layout Changes:

POWER AREA

1) J2 terminal block should be moved to the edge of the PCB
2) Align vertical centers of SW6 and D9. D9 should be placed below SW6.
3) Please adjust C4-PWR-IN trace width to accommodate a minimum of 3A.
4) Entire “Power Area” block should be moved up to the edge of the PCB.

FUNCTIONAL COMPUTER AREA

1) J15, J16, J17, J23, J20, J21 should shift down as a block to create space between J15 and power area. This area will be used for labeling the pins of J15.

INA AREA

1) INA40_V-, INA41_V-, INA42_V-, INA43_V- trace widths should all be adjusted to handle 1.5A.

2) All four of the INA circuits should be identically laid out and aligned. Spacing between footprints, traces, and vias should be consistent across modules.
    a) INA Block can be shifted right in order to make room for V- power traces to connect to J1. If needed, board width can be adjusted to accommodate for clean power paths.

ADS AREA

1) +5V trace should be able to accommodate 2A. Please adjust trace width accordingly.

BUTTONS AREA

1) Add a physical area for components SW2, SW3, SW1, SW4 footprints. Adjust terminal blocks J32, J33, J26, and J34 accordingly.
2) Move J18 + SW1 + J26 furthest to the left to place buttons in numerical order.
3) Move Entire “Buttons” block down to the edge of the PCB.

DUT AREA:

1) Please wire up J1

DUT BATTERY:

1) Move J39 and J40 down to the bottom of the PCB
2) Move down “ADS” block area to be above the button block area. Add space in between the individual INA circuits with the extra room created by moving down the ADS circuit.