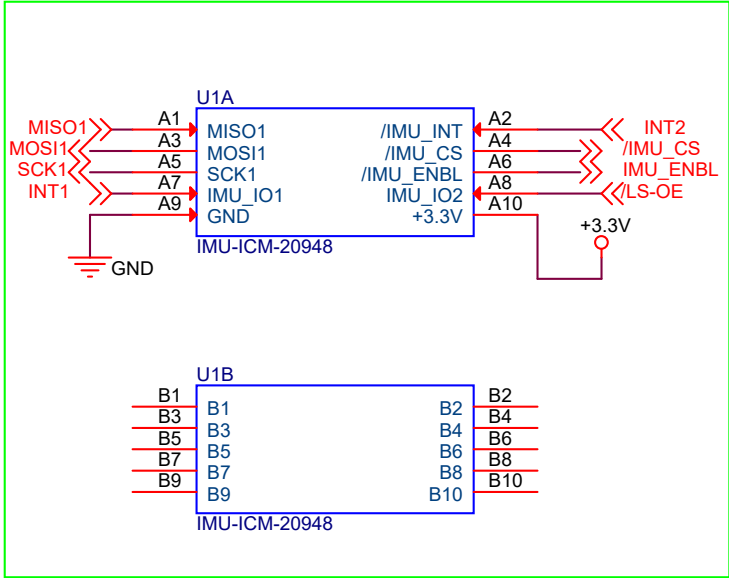
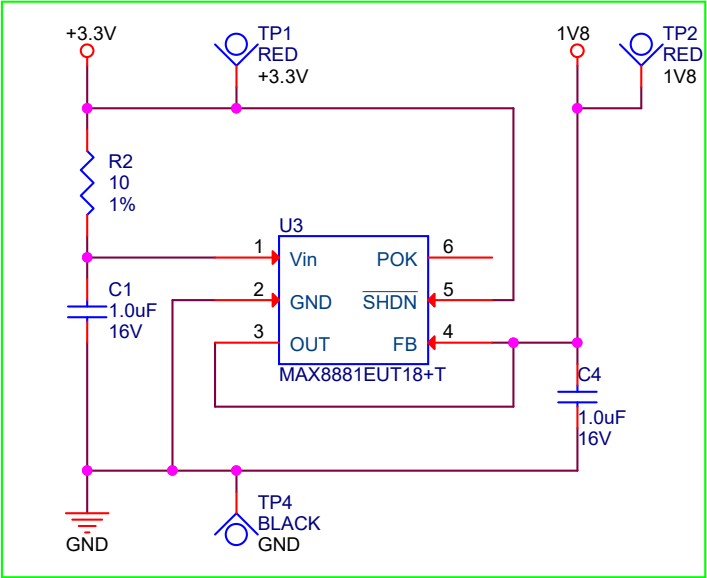
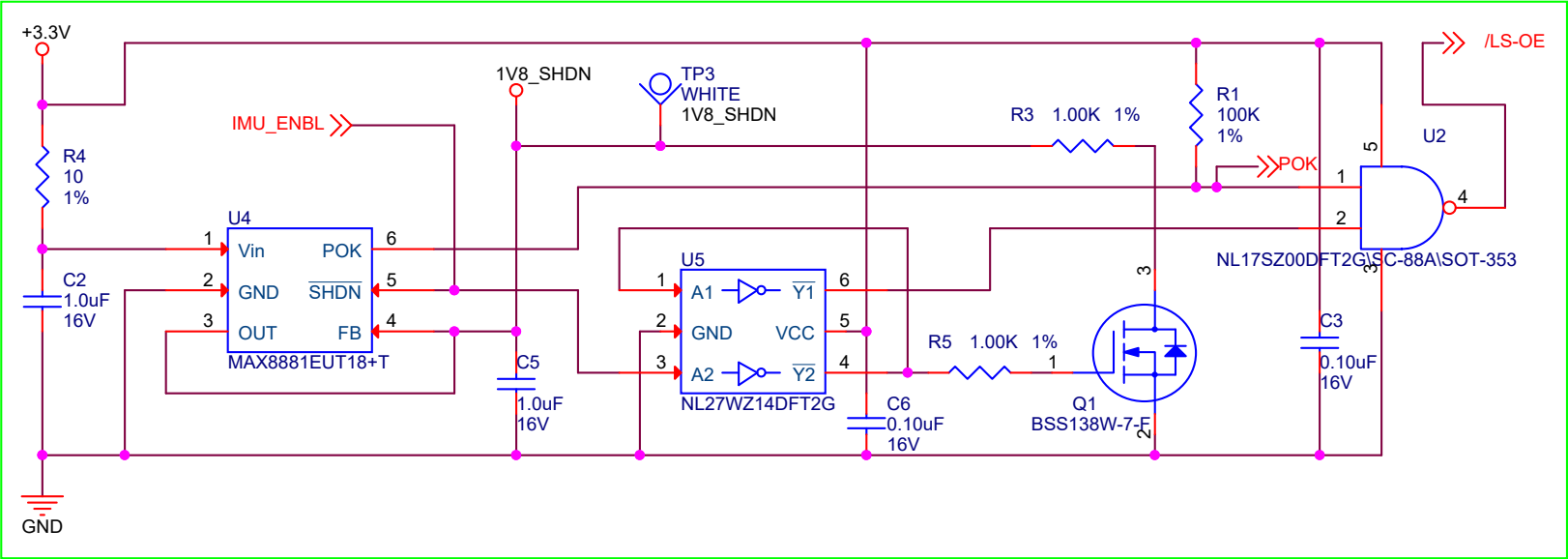




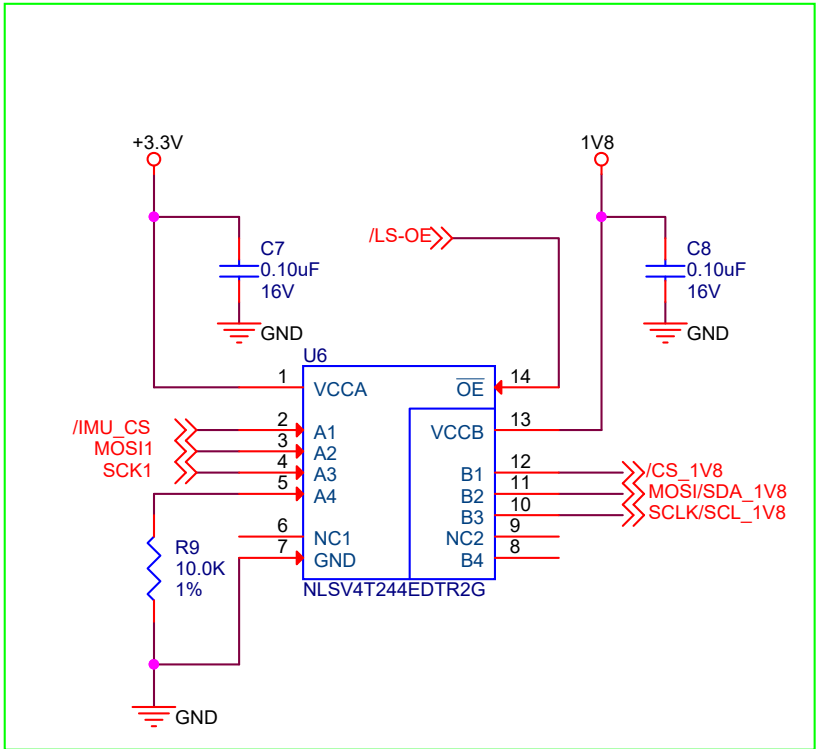
10020895-MOB3 interface connectors



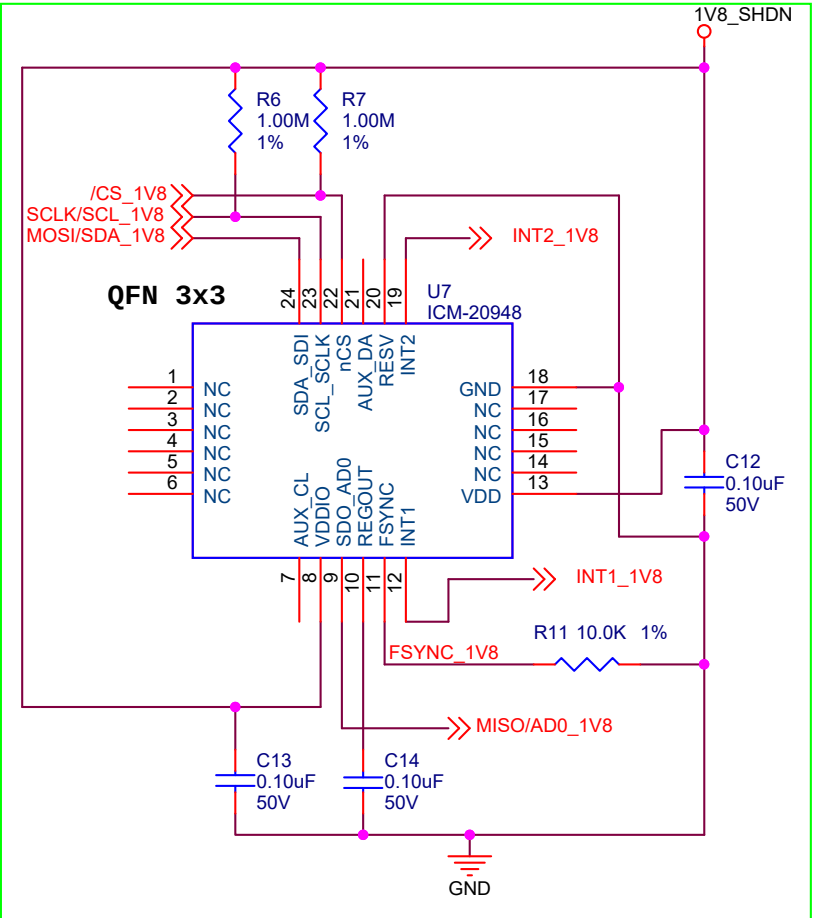
1V8 power, always ON



1V8\_SHDN power, controlled by /IMU\_ENBL signal. POK signal is generated when 1V8\_SHDN power drops to 90% of nominal

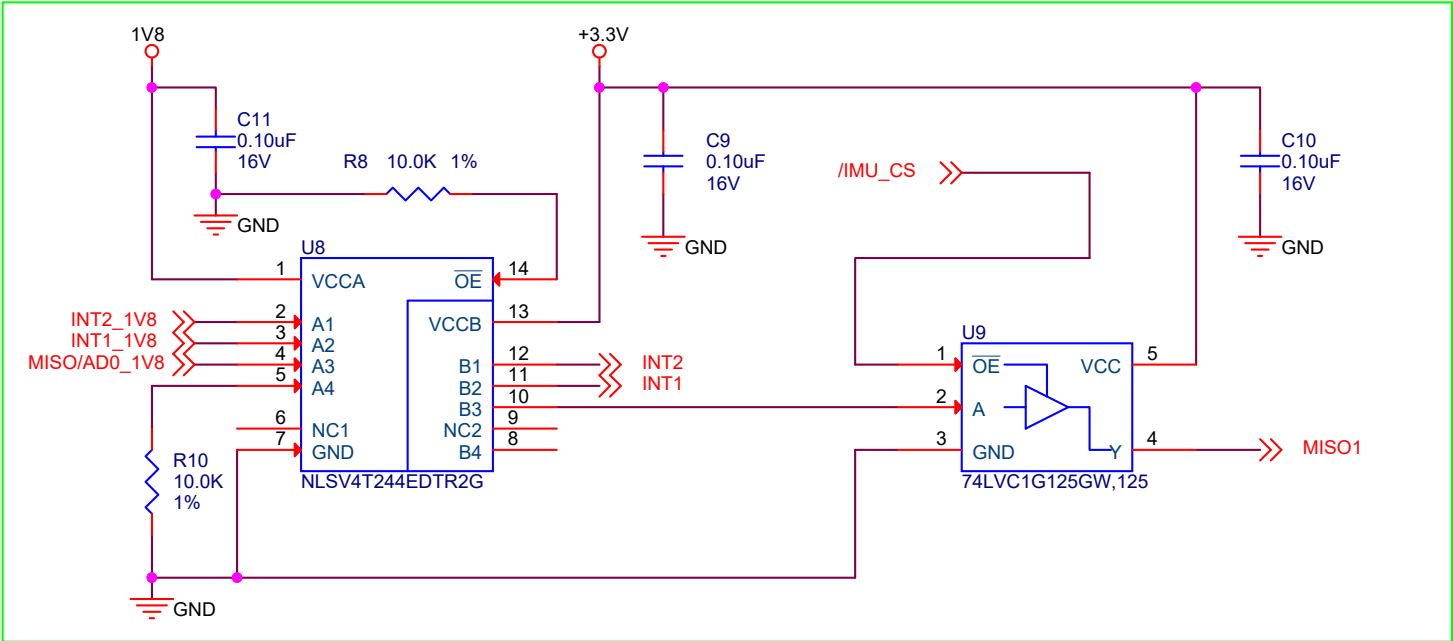


Level shifter 3.3V > 1.8V  
Always ON  
Outputs are controlled to tri-state when 1V8\_SHDN goes to 90% of nomimnal



IMU powered by 1V8\_SHDN power  
(can be shut down)

ICM-20948 currents at 1.8V VDD/VDIO  
3.11mA in 9-Axes mode  
1.23mA gyro only  
68.9 uA accelerometer only  
90 uA magnetometer only  
8 uA full chip sleep mode



Level shifter 1.8V > 3.3V. This part is always-on.  
Output buffer enable MISO1 on /IMU\_CS signal only

# DRAFT

|                                                                                       |                              |                                                                                      |                    |
|---------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------------------|--------------------|
|  |                              | Monterey Bay Aquarium Research Institute<br>7700 Sandholdt Rd, Moss landing CA 95076 |                    |
| Engineer<br>Klimov 831-775-1914                                                       |                              | Page Title<br><b>BEDS Bridge Board (BBB1)</b>                                        | Project:<br>901023 |
| Size<br>B                                                                             | Doc. or Part Number<br><Doc> | File Name (auto)<br>10020895-BBB1                                                    | Rev<br>0           |
| Page Modify Date (auto):<br>Design Modify Date (auto):<br>Full path (auto):           |                              | Monday, March 09, 2020<br>Monday, March 09, 2020                                     | Sheet:<br>1 of 2   |
| X:\SERVICES\PCB_LAYOUT\OPEN_WORK_SPACE\10020895-BBB1\10020895-BBB1.DSN                |                              |                                                                                      |                    |