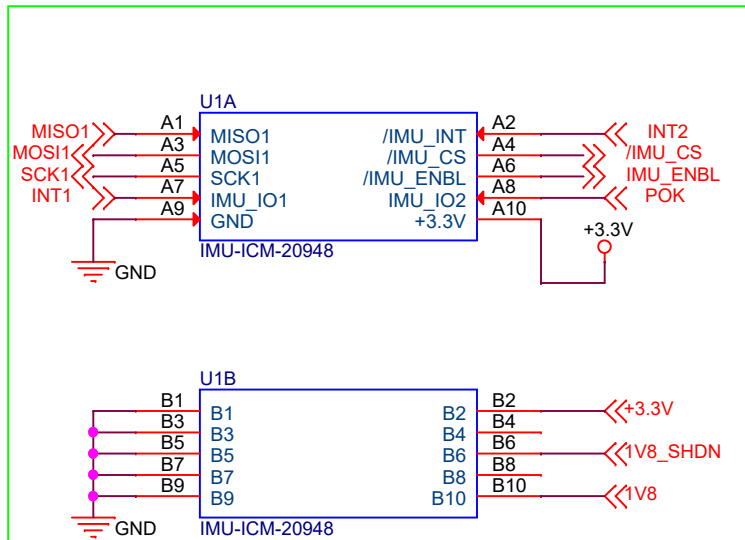
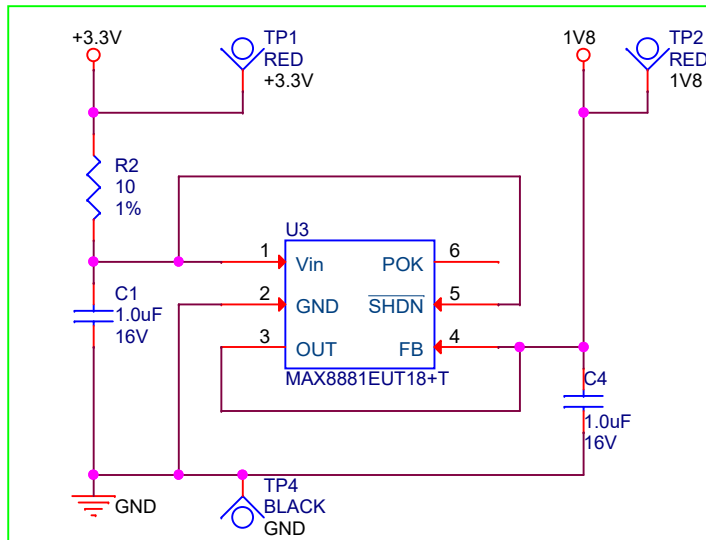
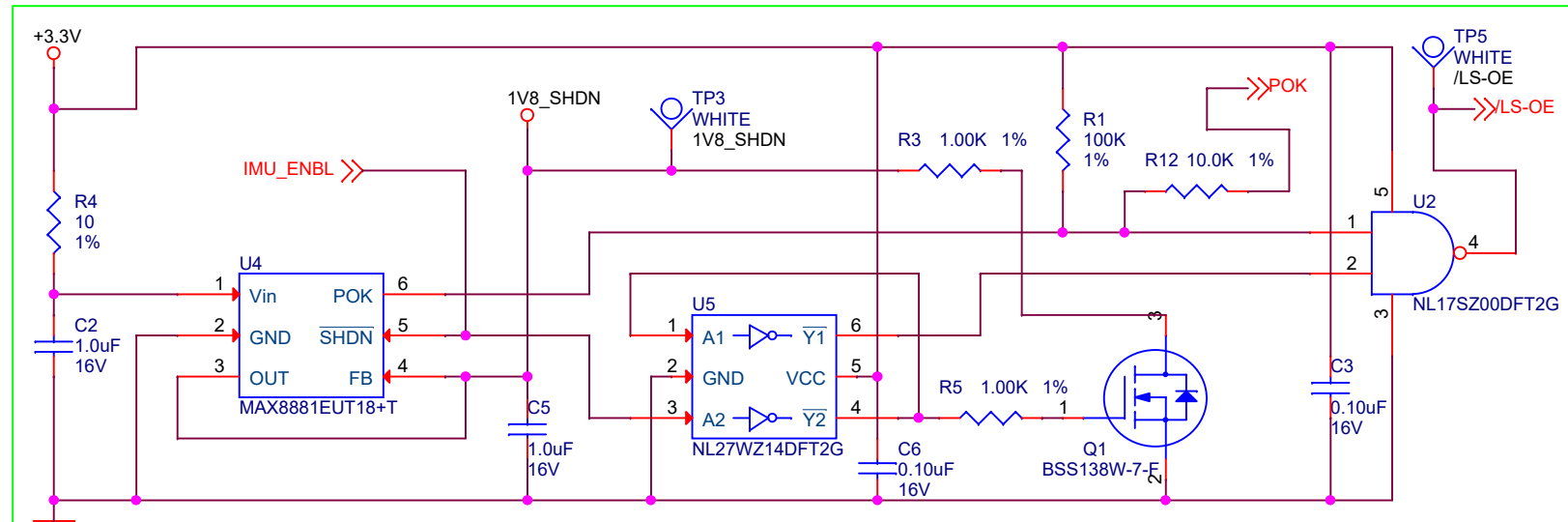




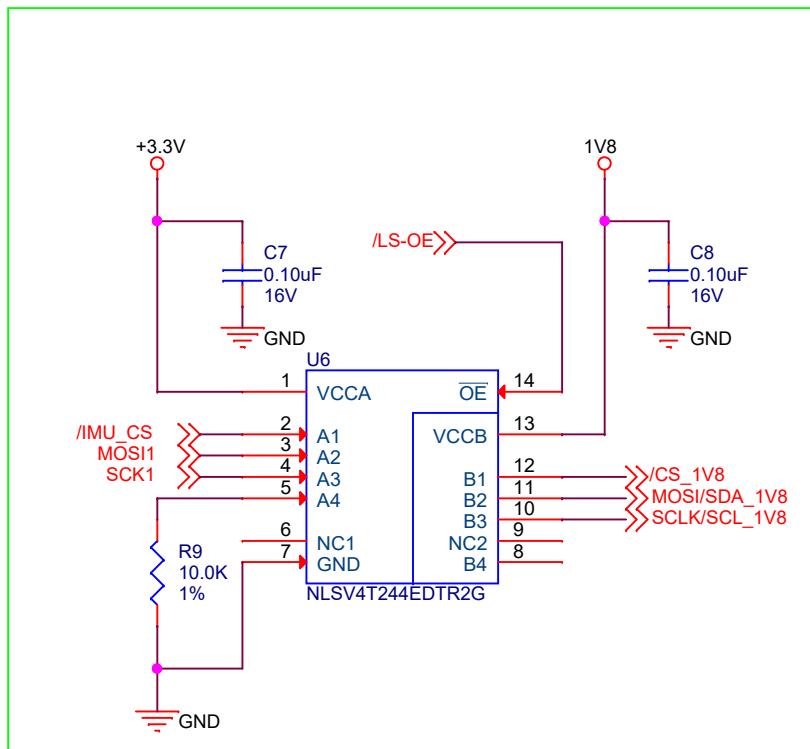
10020895-MOB3 interface connectors



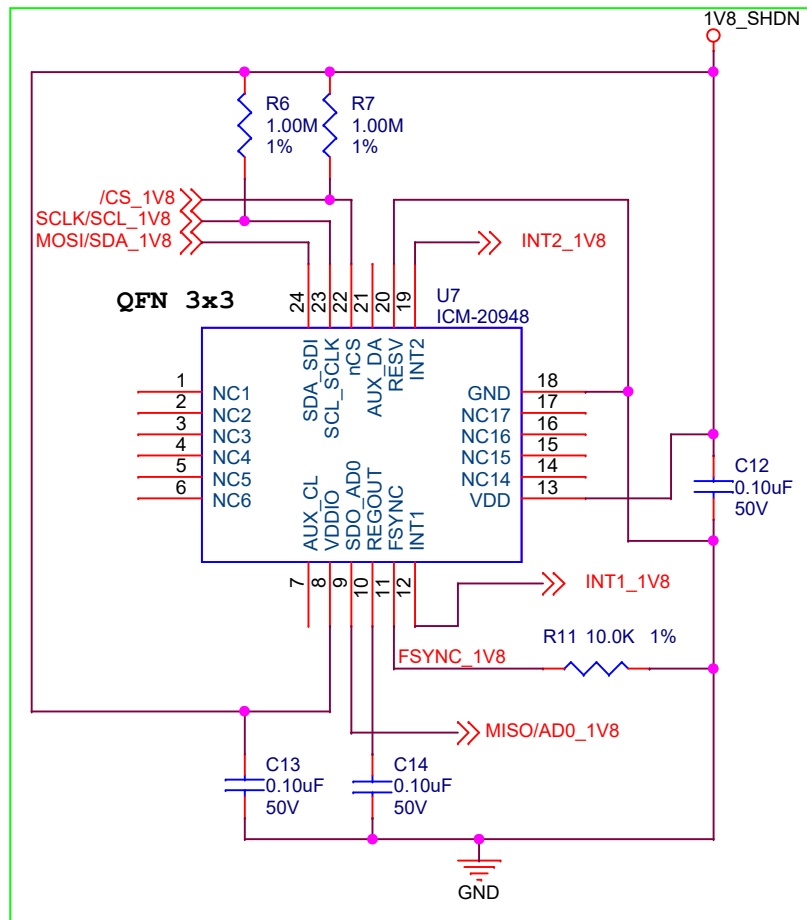
1V8 power, always ON



1V8_SHDN power, controlled by /IMU_ENBL signal. POK signal is generated when 1V8 SHDN power drops to 90% of nominal

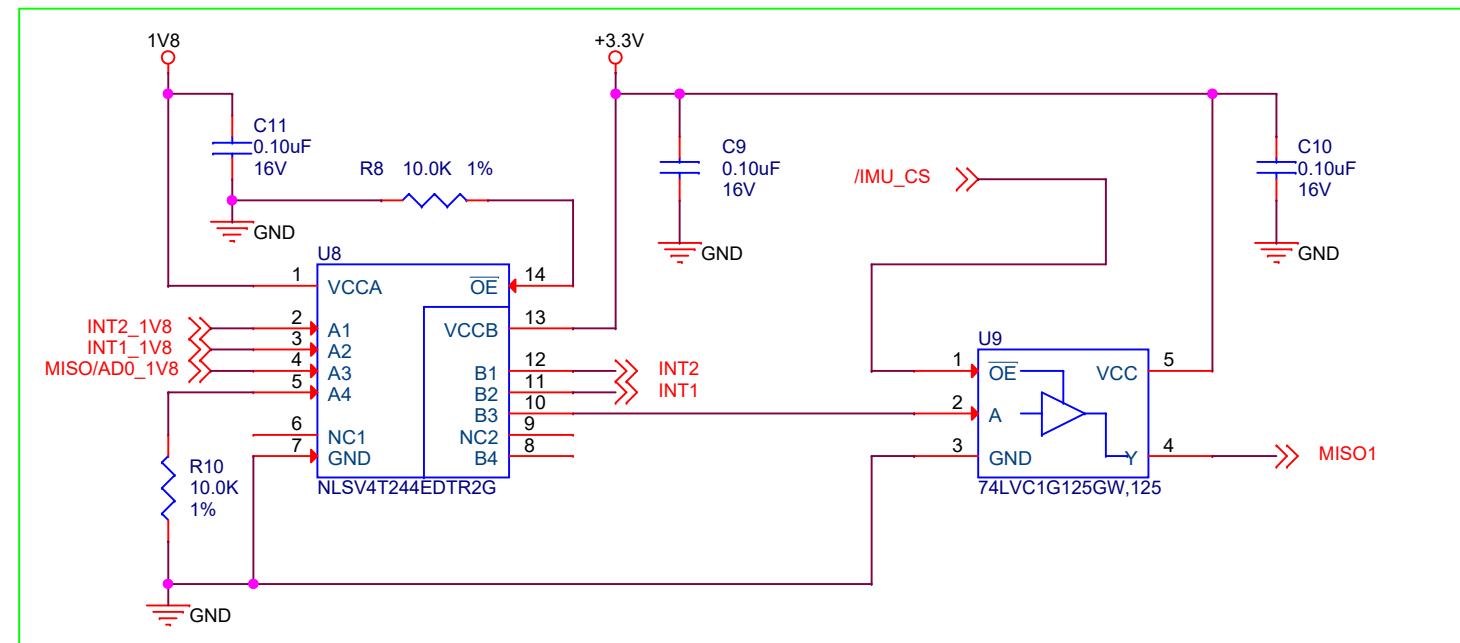


Level shifter 3.3V > 1.8V
Always ON
Outputs are controlled to tri-state
when 1V8_SHDN goes to 90% of
nomimnal



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

		Monterey Bay Aquarium Research Institute 7700 Sandholdt Rd, Moss landing CA 95076	
Engineer Klimov 831-775-1914		Page Title BEDS Bridge Board (BBB1)	Project: 901023
Size B	Doc. or Part Number <Doc>	File Name (auto) 10020895-BBB1	Rev 0
Page Modify Date (auto): Design Modify Date (auto):		Tuesday, April 21, 2020 Tuesday, April 21, 2020	Sheet: 1 of 1
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