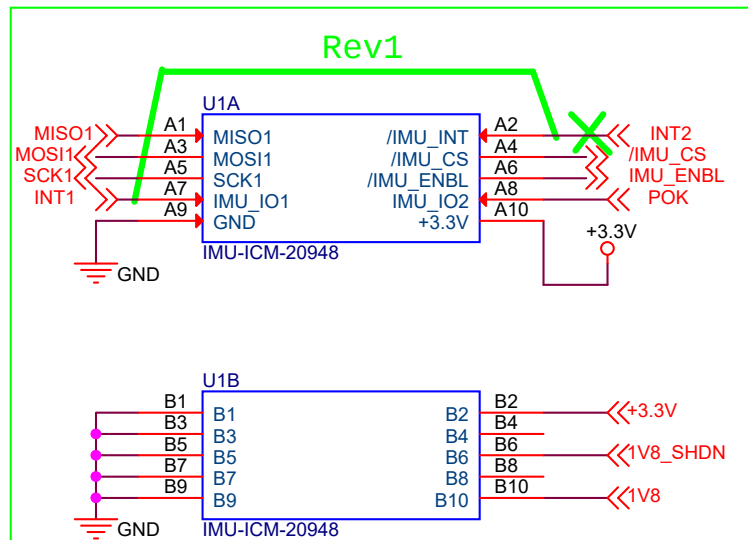
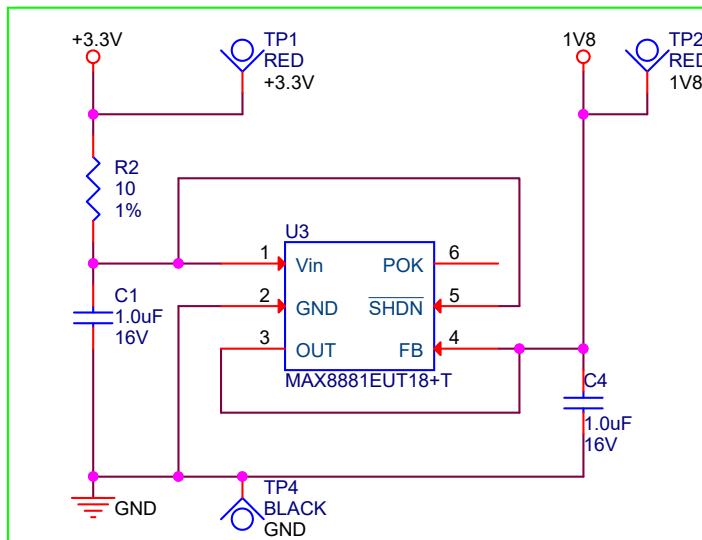
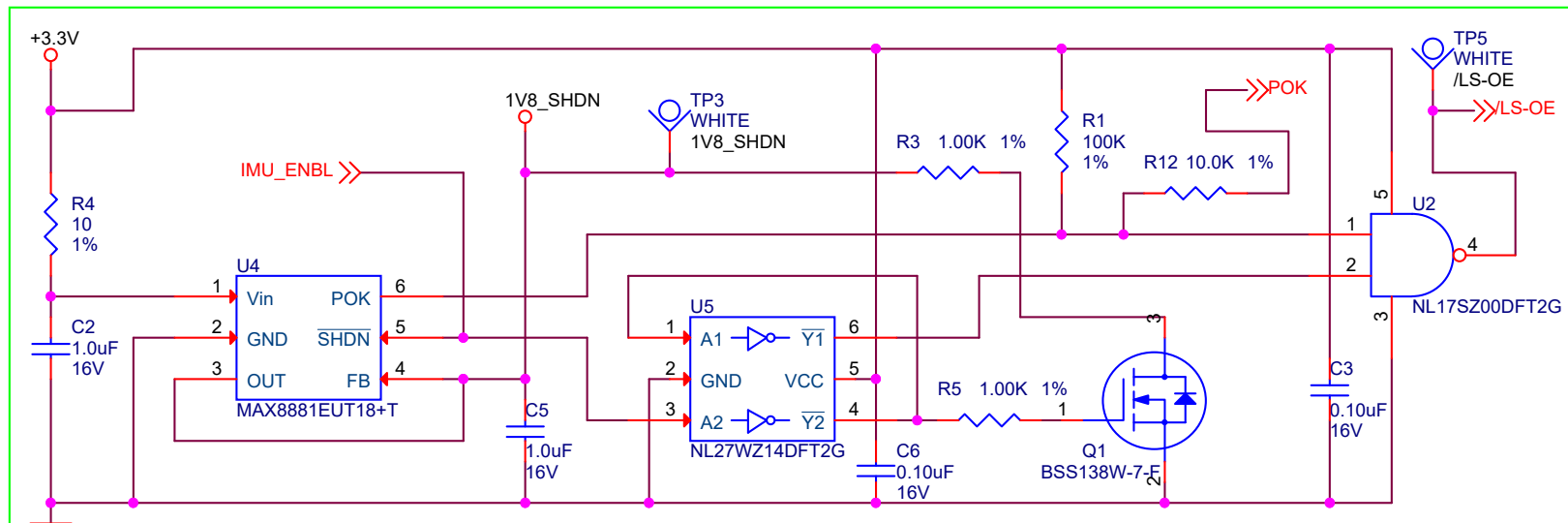




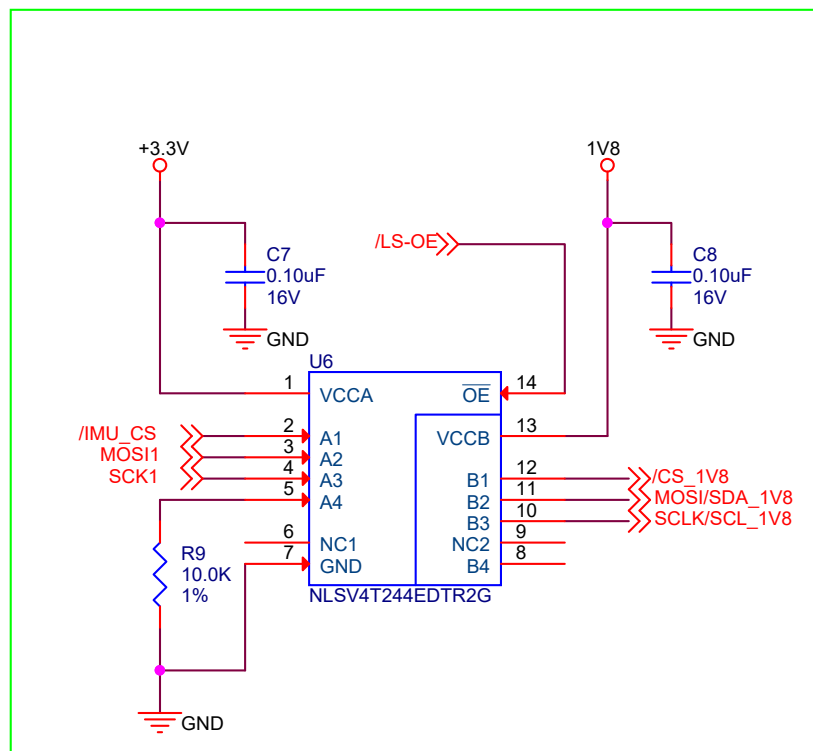
10020895-MOB3 interface connectors



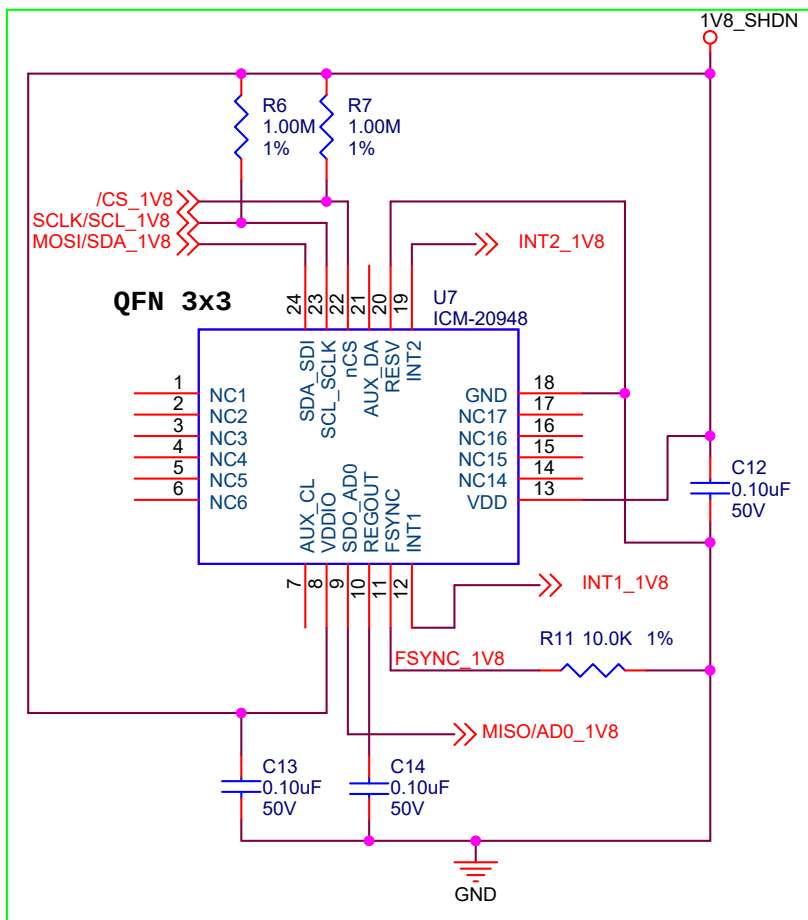
1V8 power, always ON



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

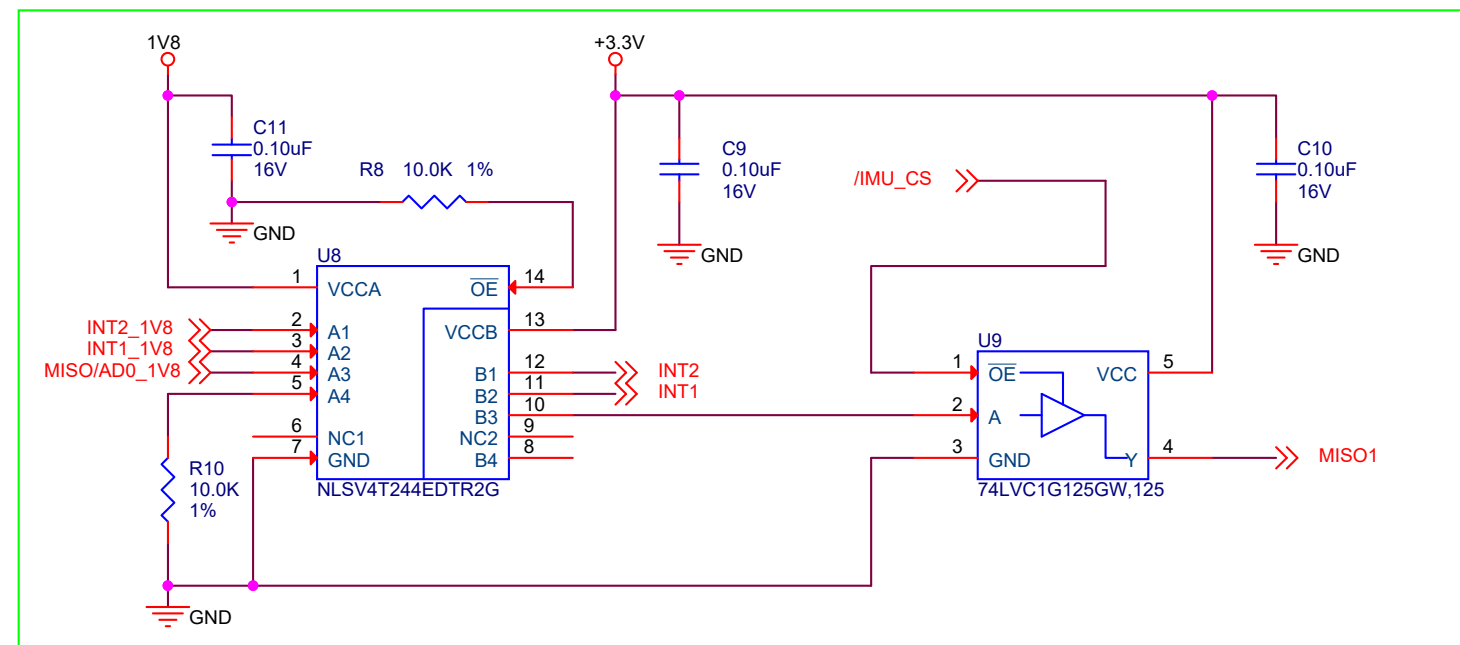


Level shifter 3.3V > 1.8V
Always ON
Outputs are controlled to tri-state
when 1V8_SHDN goes to 90% of
nomimal



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 MIS01 on /IMU CS signal only

```
Rev0(04/21/2020): Initial release
Rev1(10/01/): U1.A2 disconnected from INT2
and connected to U1.A7 (INT1)
```

		Monterey Bay Aquarium Research Institute 7700 Sandholdt Rd, Moss landing CA 95076	
Engineer Klimov		Page Title BEDS Bridge Board (BBB1)	
831-775-1914		Project: 901023	
Size B	Doc. or Part Number <Doc>	File Name (auto) 10020895-BBB1	Rev 1
Page Modify Date (auto):		Thursday, October 01, 2020	
Design Modify Date (auto):		Thursday, October 01, 2020	
Full path (auto):		Sheet:	
		1 of 1	

X:\TECHSERVICES\PCB_LAYOUT\OPEN_WORK_SPACE\10020895-BBB1\10020895-BBB1.DSN