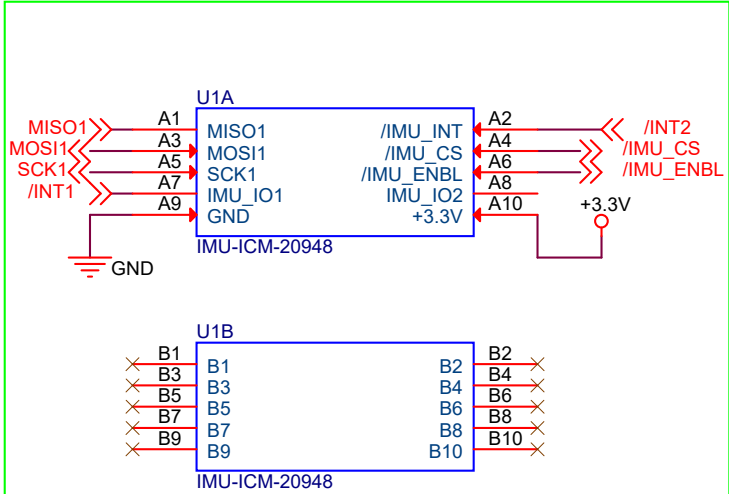
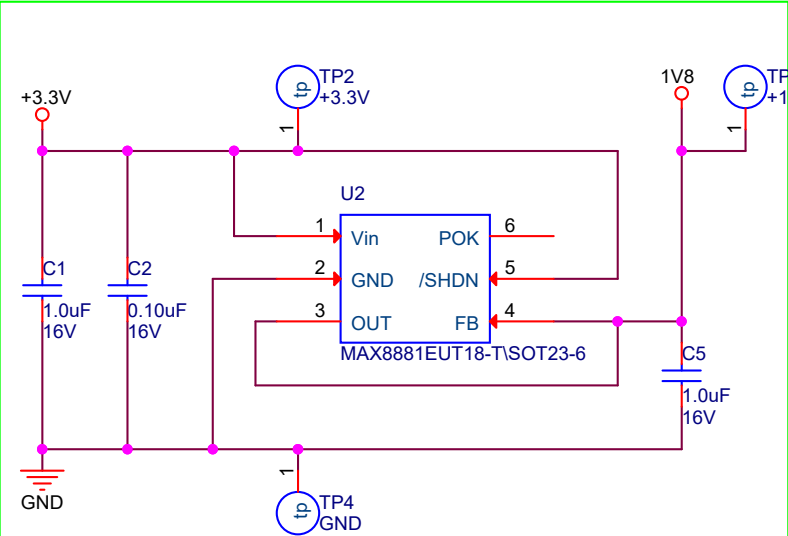
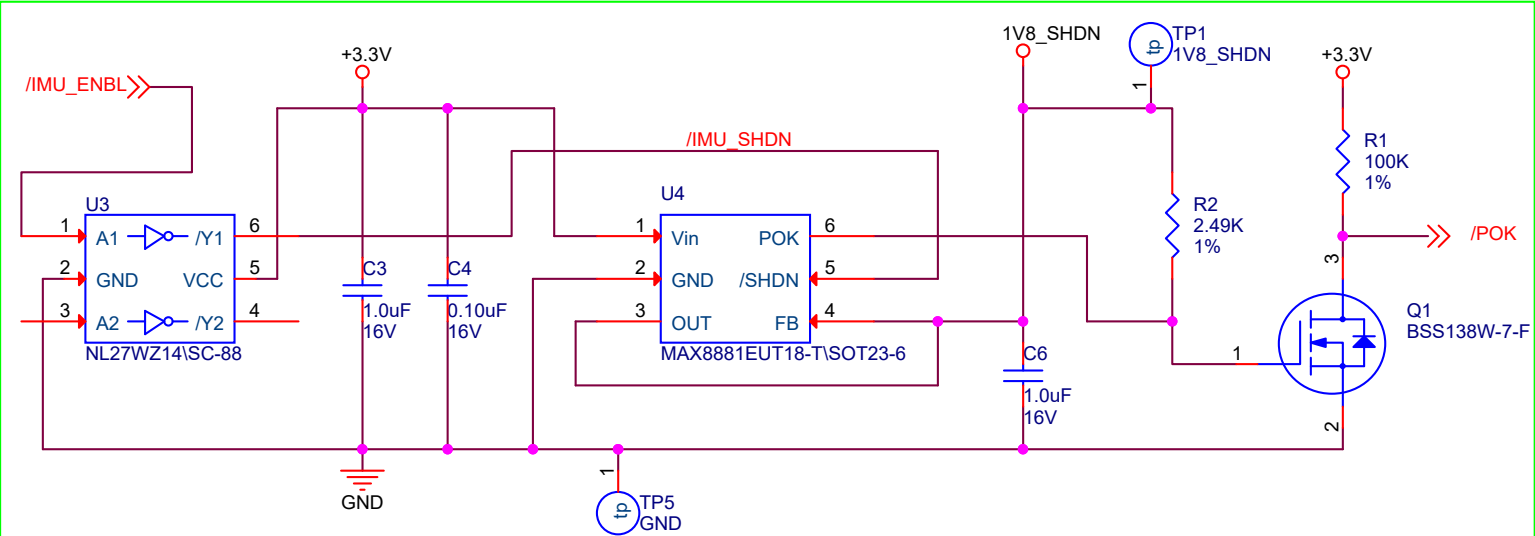




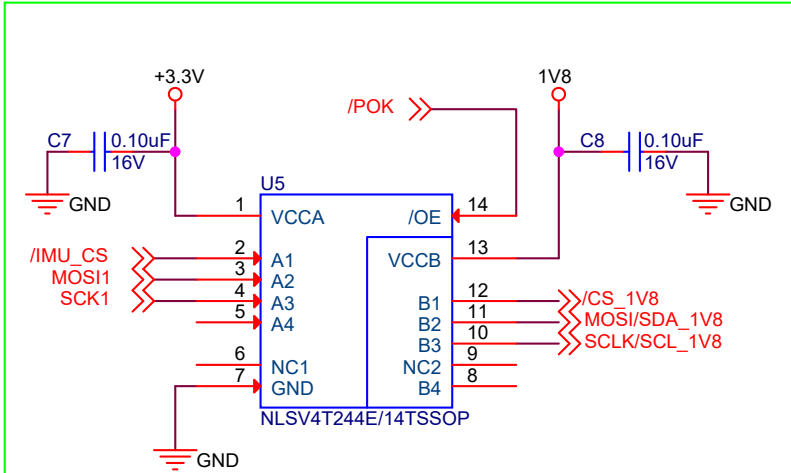
10020895-MOB3 interface connectors



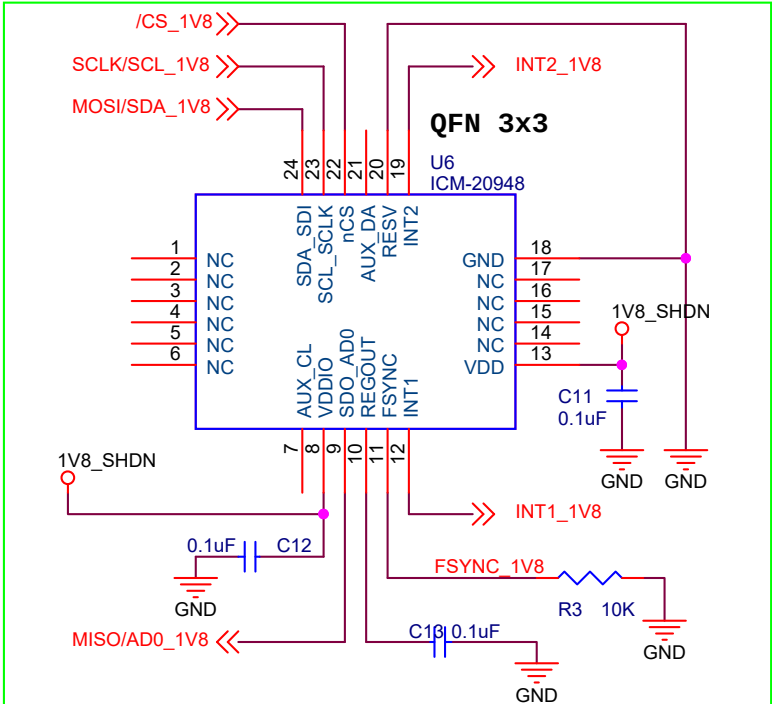
1V8 power, always ON



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

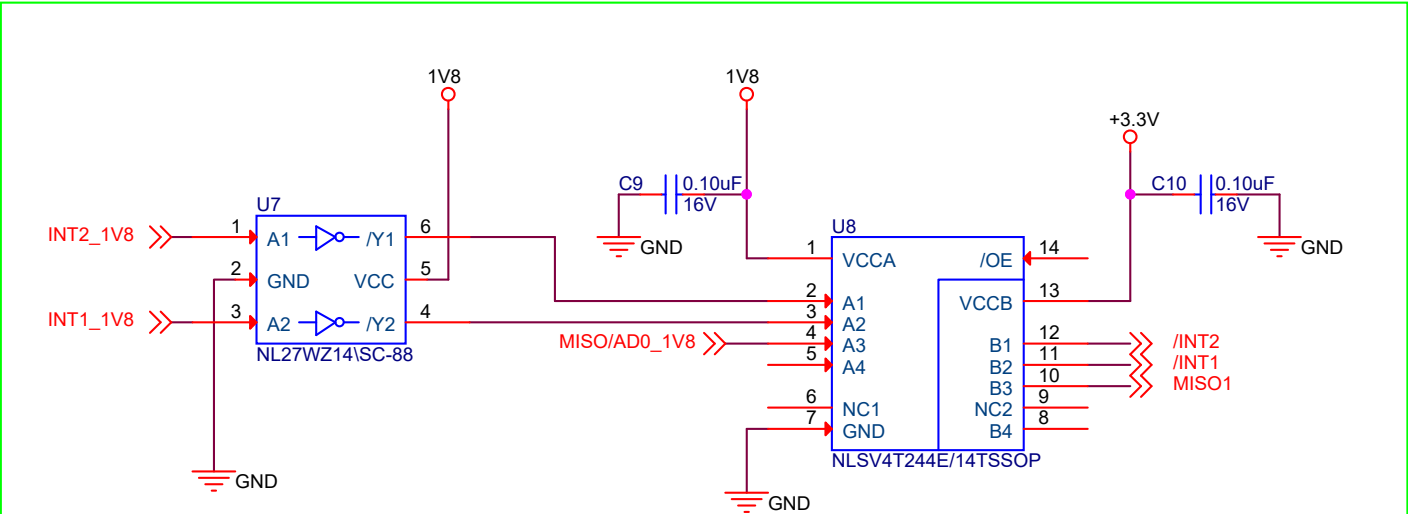


Level shifter 3.3V > 1.8V
Always ON
Outputs are controlled to tri-state when 1V8_SHDN goes to 90% of nominal



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

IMU powered by 1V8_SHDN power (can be shut down)



Level shifter 1.8V > 3.3V. This part is always-on. Inverters are used so shutting down the IMU does not produce interrupt signals

DRAFT

		Monterey Bay Aquarium Research Institute 7700 Sandholdt Rd, Moss landing CA 95076	
Engineer Klimov		Page Title BEDS Bridge Board (BBB1)	
Size B		Project: 901023	
Doc. or Part Number <Doc>		File Name (auto) 10020895-BBB1	
Page Modify Date (auto): Monday, December 16, 2019		Rev 0	
Design Modify Date (auto): Monday, December 16, 2019		Sheet: 1 of 2	
Full path (auto): X:\TECH\SERVICES\PCB_LAYOUT\OPEN_WORK_SPACE\10020895-BBB1\10020895-BBB1.DSN			