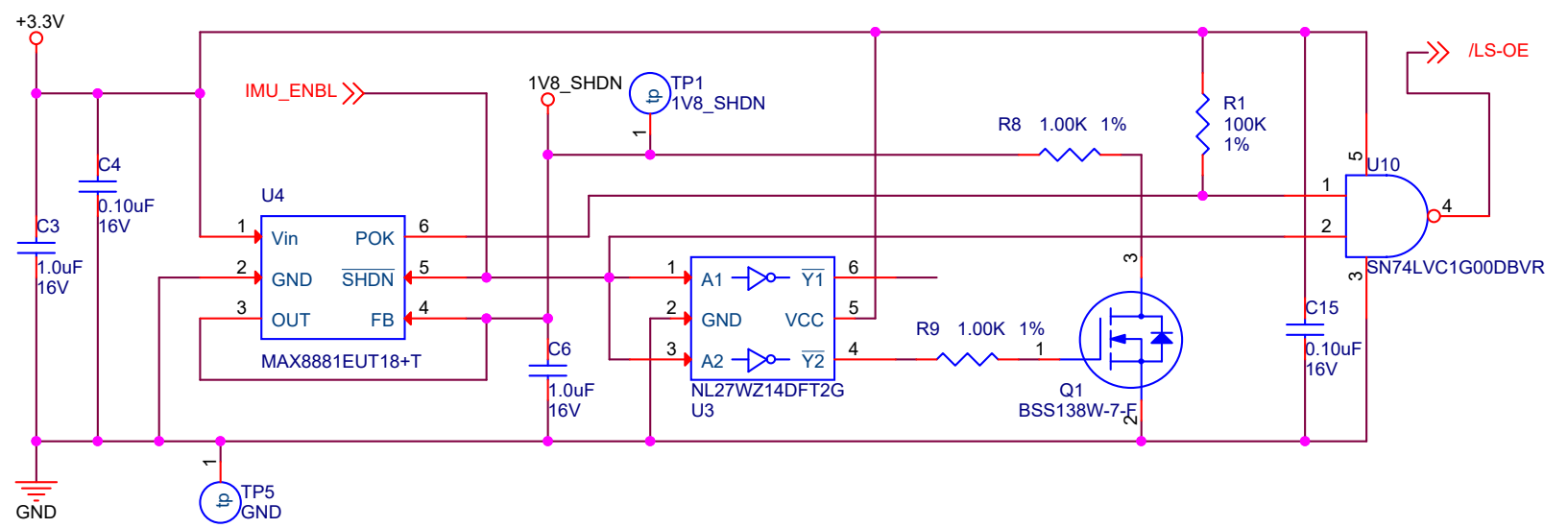
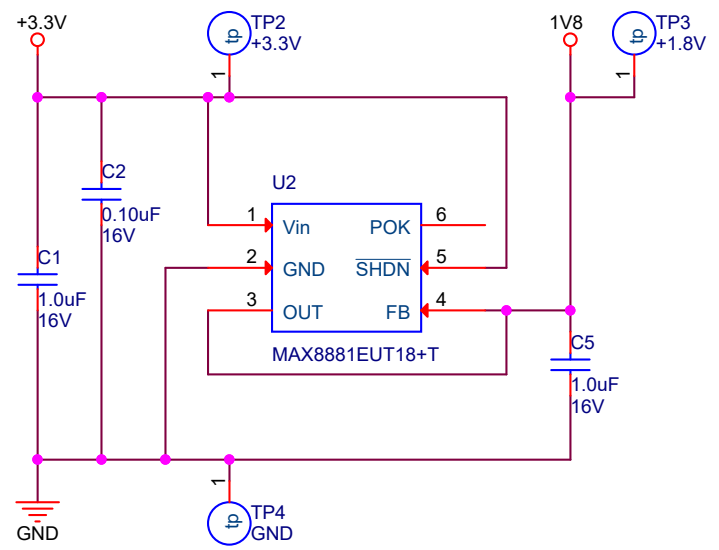
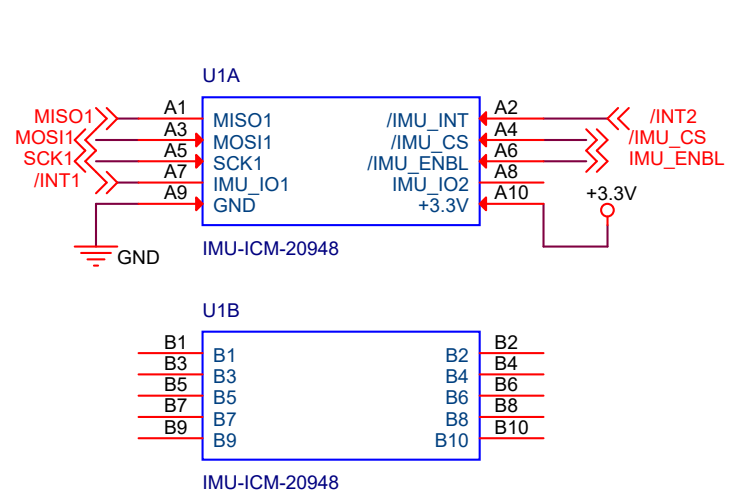
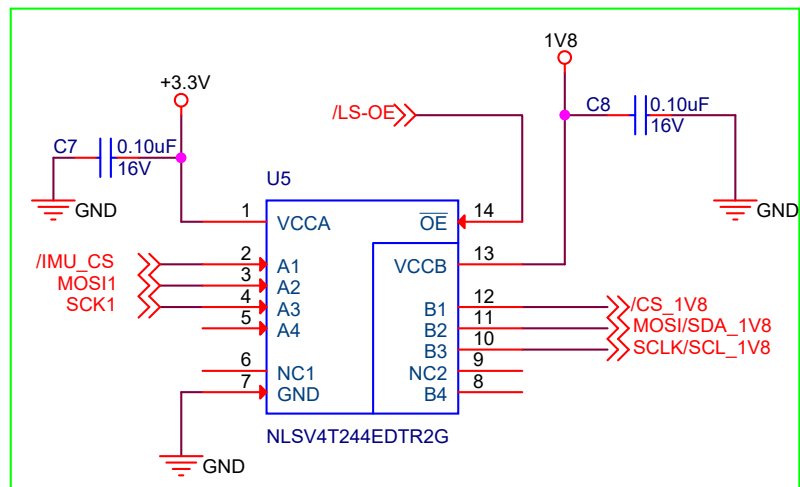
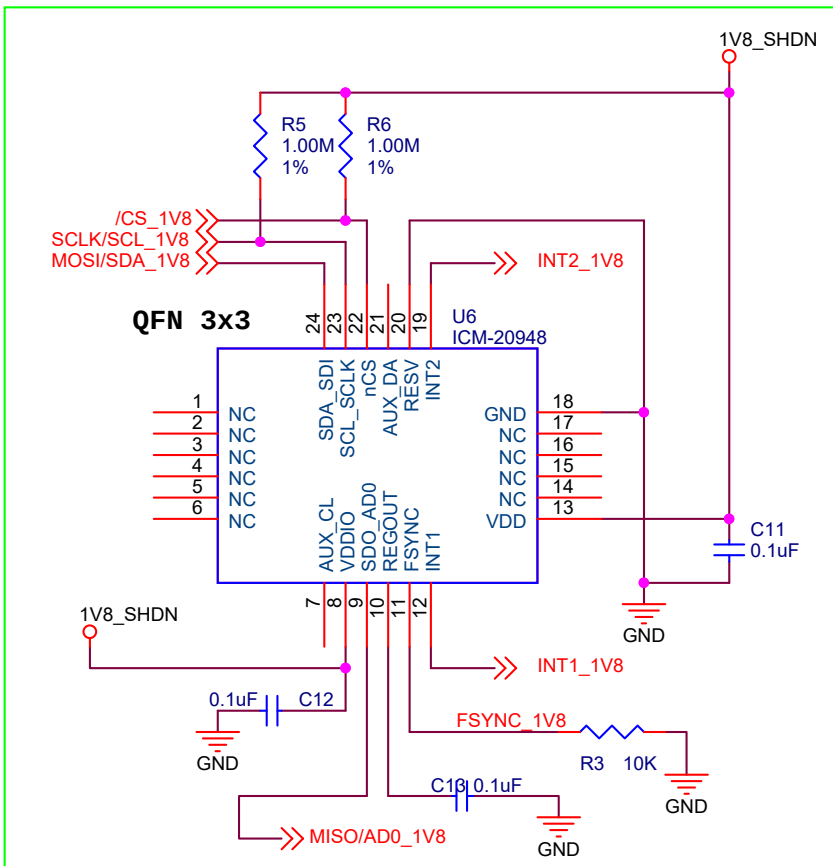




10020895-MOB3 interface connectors 1V8 power, always ON



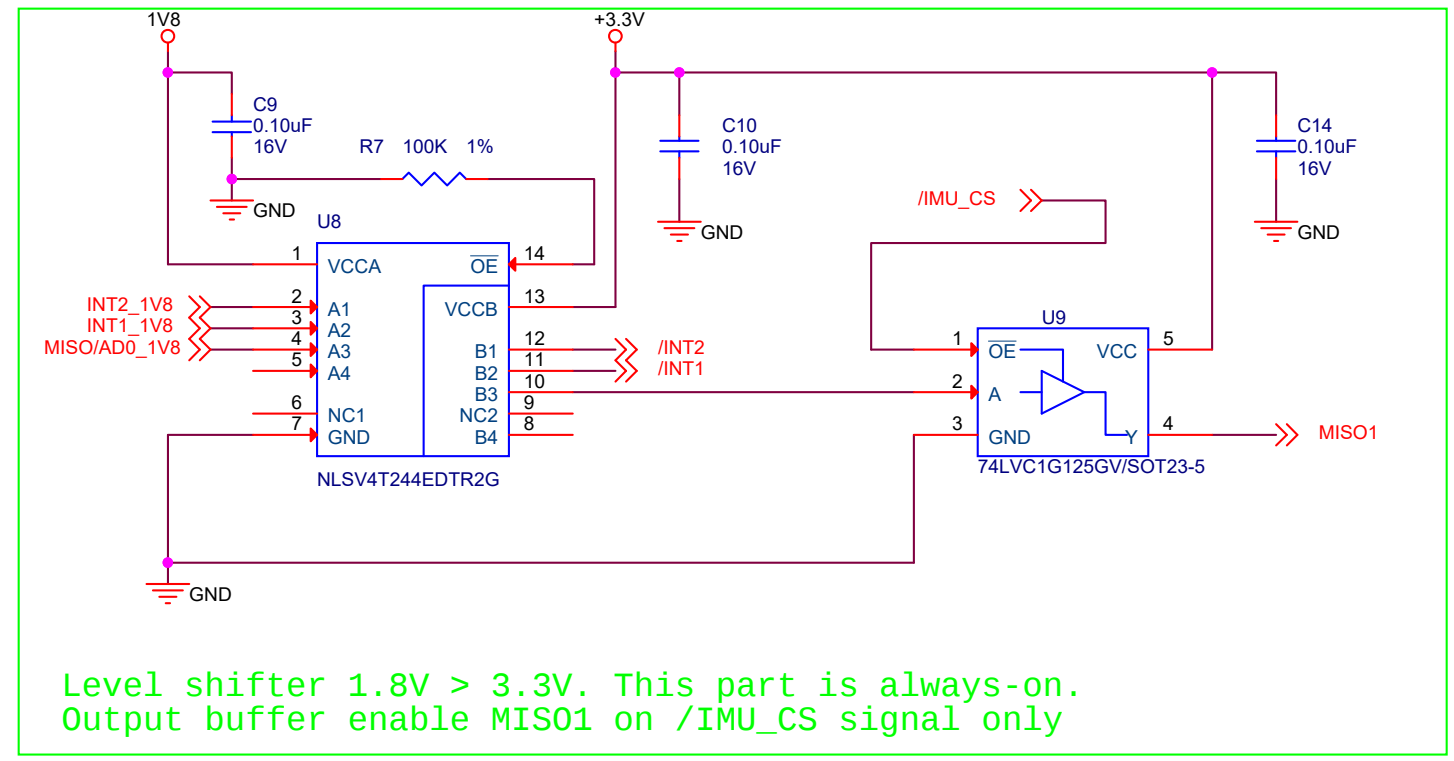
Level shifter 3.3V > 1.8V
Always ON
Outputs are controlled to tri-state
when 1V8_SHDN goes to 90% of
nomimnal



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)

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



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 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): Thursday, February 27, 2020		Sheet: 1 of 2	
Design Modify Date (auto): Thursday, February 27, 2020		Full path (auto): X:\ITECH\SERVICES\PCB_LAYOUT\OPEN_WORK_SPACE\10020895-BBB1\10020895-BBB1.DSN	