

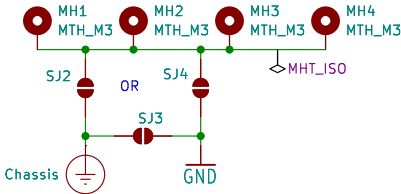
A LOW-COST DATA LOGGER FOR VOLUNTEER BATHYMETRIC INFORMATION

The Wireless Inexpensive Bathymetry Logger (WIBL) project aims to provide a full-stack solution for collecting bathymetric (depth) data from volunteers with a GNSS and echosounder as part of their routine operations. The WIBL project was initially developed at The Center for Coastal and Ocean Mapping/NOAA–UNH Joint Hydrographic Center at the University of New Hampshire, with grant support from NOAA.

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Non-BOM Items

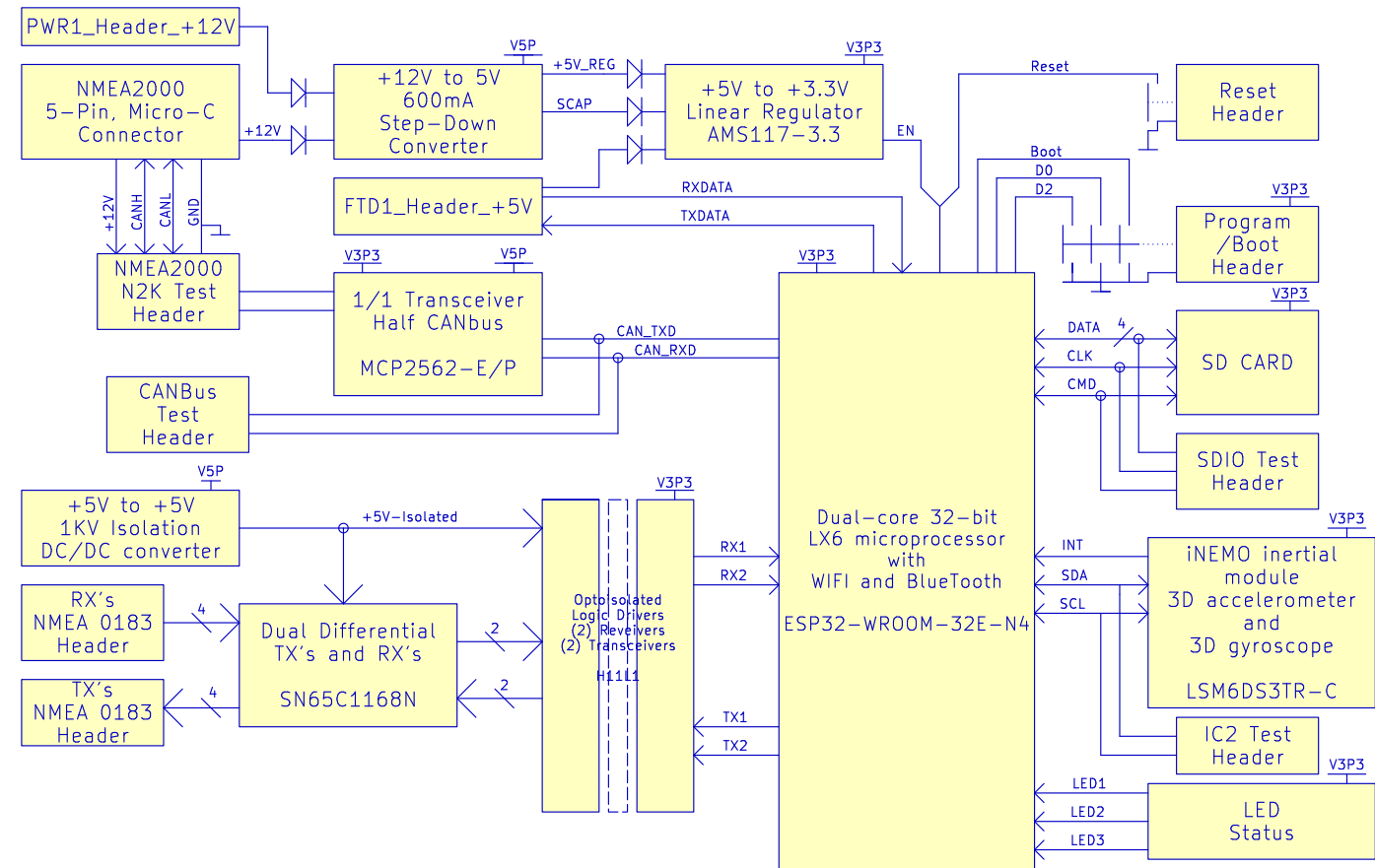


Additional BOM Items

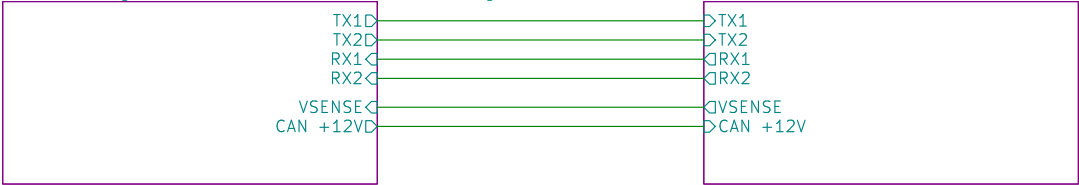
- 1) Hardware Screws: QTY = 4, M3 x 4mm Hex Socket Head Cap Bolt, SS
- 2) Harness FEMALE NMEA2000 Micro-C connector to Joining Unit
- 3) Recommended Programing Adaptor. Adafruit FTDI Friend (Part ID 284) or Cable (Part ID 4364)
- 4) Molex SL 70066 Series plug & sockets Connector housings

REVISIONS			
REV.	DISCRIPTION	DATE	APPROVER
2.5.0	Initial Release	250307	B. Calder
2.5.1	Added C15, 1uF to input of U6. Added C4 100nF, R22 4K75, Changed R27 from 1k5 to 51k1, Changed Z1 from BZT52C3V0 to MMSZ4683T1G Changed D6 from SS14 to MRA4003T3G, Changed R20 from 1k to 4k75 Changed R30 from 127k to 133k Changed L1 from 15uH to 22uH Added 3M Mounting Holes MHT1,2,3,4 for case mounting Added JMP1,2,3 for Chassis or GND option	250828	B. Calder

Block Diagram



Main Logic_Microcontroller_Storage



NMEA0183 Transceiver_Power Section

File: Main_Logi_uProcessor_Storage.kicad_sch Sheetfile: NMEA0183_Transceiver_PWR.kicad_sch

Wireless Inexpensive Bathymetry Logger (WIBL)

v 2.5.1 (2025-08-28)
WIBL_V2.5.1_251121
2025-11-21
Sheet: 1/3

