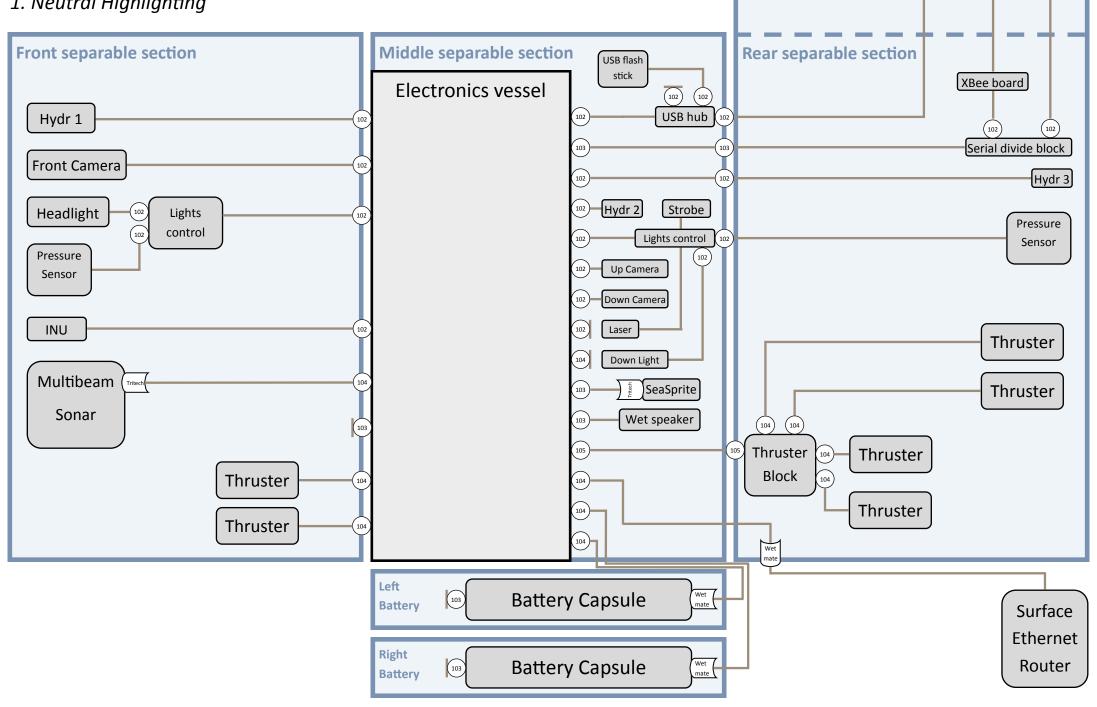
Barracuda System Diagram v3.7

1. Neutral Highlighting



Antenna

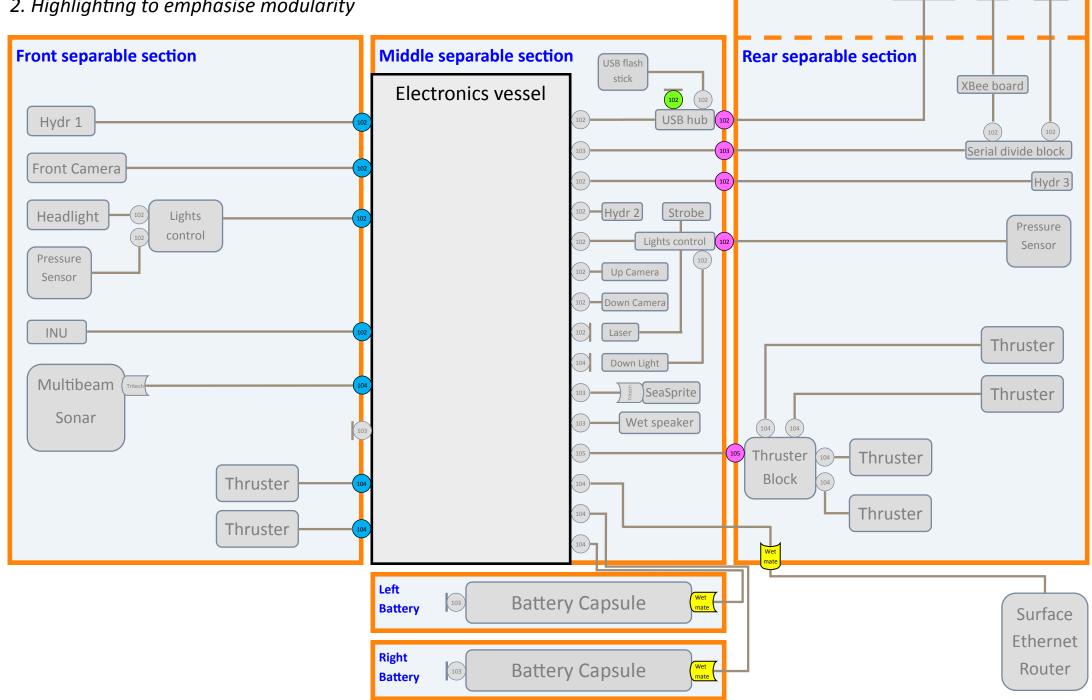
Wi-Fi stick

GPS

ant

Barracuda System Diagram v3.7

2. Highlighting to emphasise modularity



Antenna

Wi-Fi stick

GPS

ant

Barracuda System Diagram v3.7 Antenna Wi-Fi stick **GPS** ant 3. Highlighting to emphasise waterproofing methods Front separable section Middle separable section Rear separable section USB flash stick XBee board **Electronics vessel** 102 (102) USB hub Hydr 1 Serial divide block **Front Camera** Hydr 3 102 Hydr 2 Strobe Headlight Lights Pressure control Lights control Sensor Pressure (102) **Up Camera** Sensor **Down Camera** INU Laser **Thruster** Down Light Multibeam § SeaSprite **Thruster** Sonar Wet speaker (104) **Thruster Thruster** Block **Thruster Thruster** 104 **Thruster** Wet Key: Left **Counts Battery Capsule** 103 Potted with silicon mould (qty: 9) **Battery** Surface ■ Independently waterproofed Potted in aluminium tray (qty: 8) Ethernet electrical parts: 35 Right **Custom air sealed vessel** (qty: 9) ☐ Unique potting trays: **5 Battery Capsule** Wet mate Router (103) **Battery** ☐ Unique potting moulds: 8 Ready waterproof OTS part (qty: 9)

Barracuda System Diagram v3.7 Antenna Wi-Fi stick GPS ant 4. Highlighting to emphasise waterproof connectors Front separable section Middle separable section Rear separable section USB flash stick XBee board **Electronics vessel** USB hub Hydr 1 Serial divide block Front Camera Hydr 3 Hydr 2 Headlight Strobe Lights Pressure control Lights control Sensor Pressure Up Camera Sensor Down Camera INU Laser Thruster Down Light Multibeam SeaSprite Thruster Sonar Wet speaker Thruster **Thruster** Block Thruster Thruster Thruster Left **Battery Capsule Battery** Surface Ethernet Right **Battery Capsule** Router **Battery**

Barracuda System Diagram v3.7 Antenna Wi-Fi stick GPS ant 5. Highlighting to emphasise cabling Front separable section Middle separable section Rear separable section USB flash stick XBee board **Electronics vessel** 102 (102) USB hub Hydr 1 Serial divide block Front Camera Hydr 3 Hydr 2 Strobe Headlight Lights Pressure control Lights control Sensor Pressure Up Camera Sensor Down Camera INU Laser **Thruster** Down Light Multibeam SeaSprite Thruster Sonar Wet speaker 104 **Thruster Thruster** Block **Thruster Thruster** Thruster 1. Battery moulded 9. Serial combined Left 2. Thruster supplied 10. USB (PVC) **Battery Capsule** (103) **Battery** Surface **3.** Peripheral power — — 11. Gemini Ethernet See "Barracuda Fischer Connect-**4.** CAN twisted pair 12. Ethernet moulded Ethernet ors" for further details on exter-5. Hydrophone 13. Combined thruster Right 6. Wet speaker **14.** coax **Battery Capsule** nal cabling... Router (103) **Battery** 7. SeaSprite serial 15. unassigned **16.** unassigned **8.** Serial <6 conduct