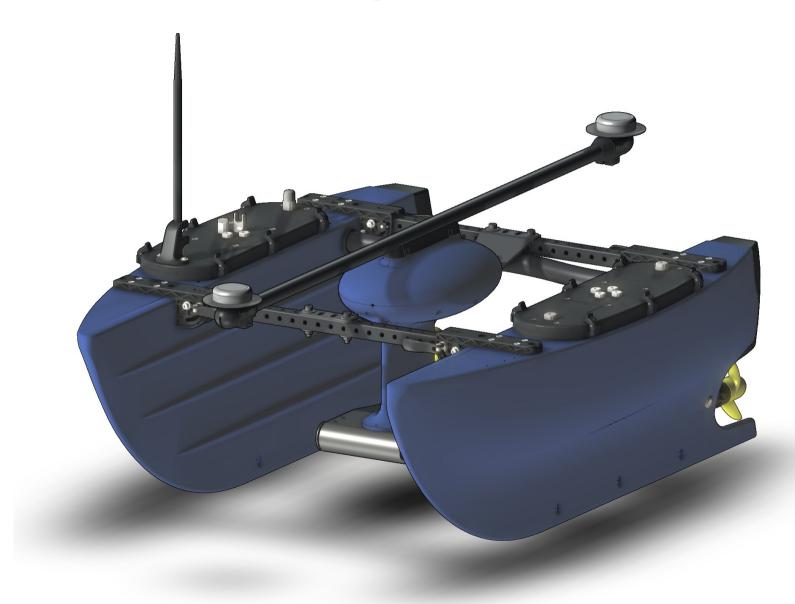
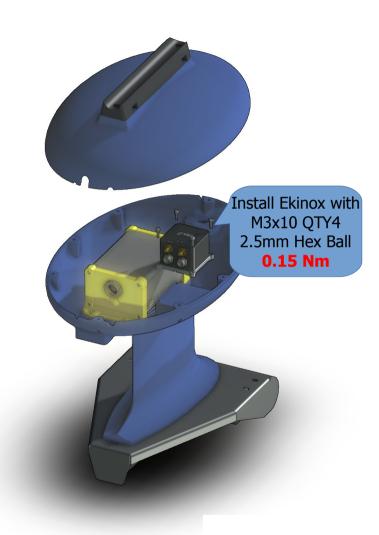
Podlet Quick Start Guide



Install Ekinox-micro

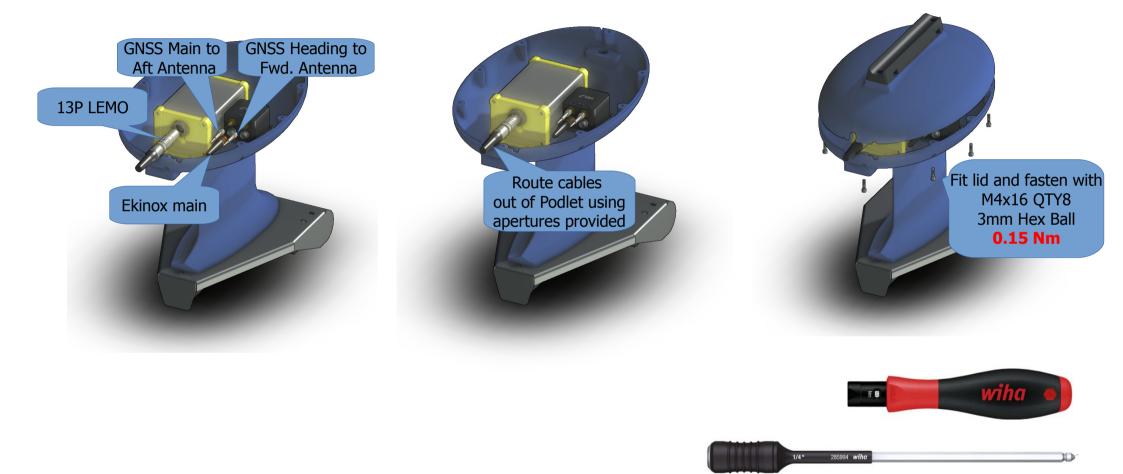




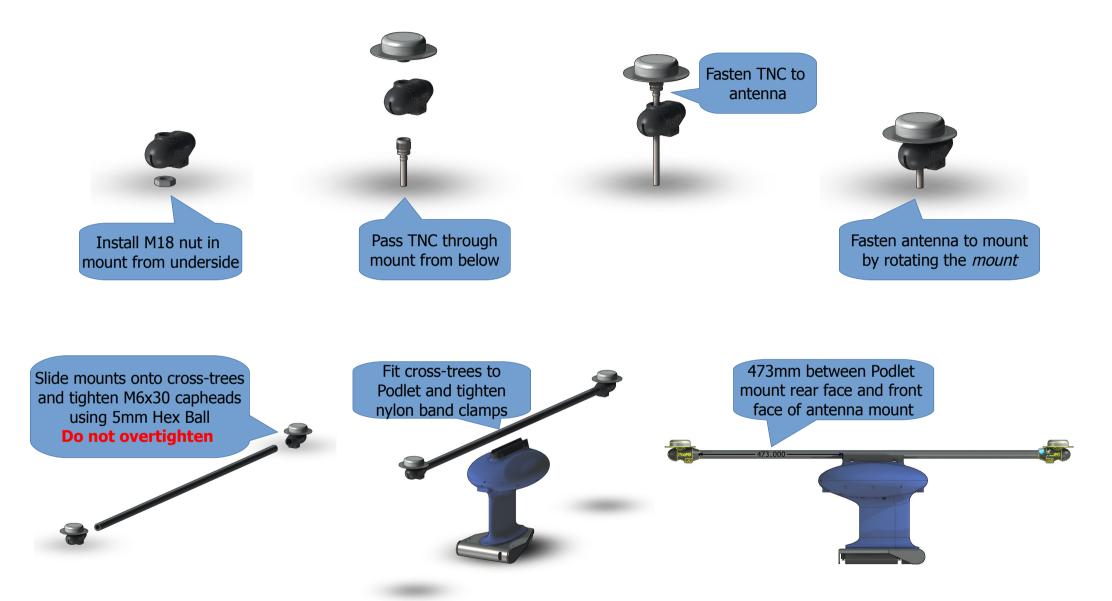




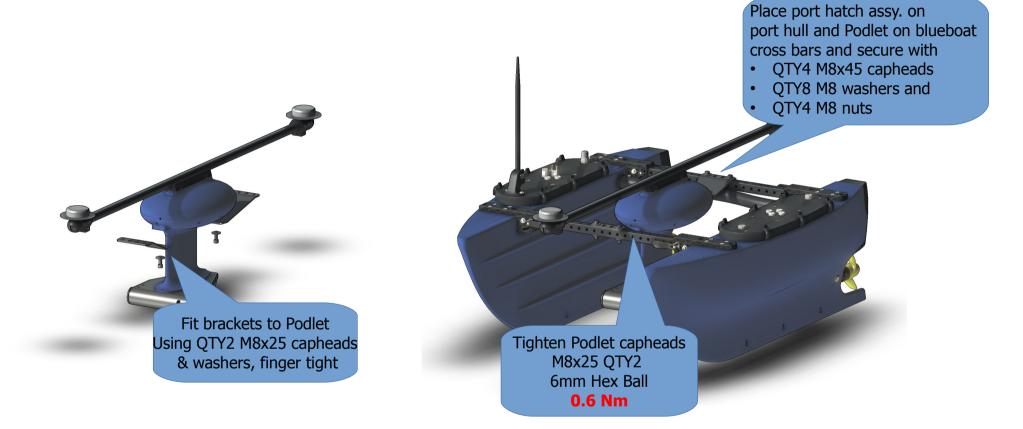
Install Cables and Close Podlet



Assemble GNSS Antennas



Install Podlet on BlueBoat



BlueBoat Port Hatch Assembly



Route the two 2m Ethernet cables from the port hatch assembly to the stbd hatch assembly through the BlueBoat crosstube. Inside the stbd hatch assembly connect one Ethernet cable to the Rpi and the other to the BlueBoat router using the Ethernet coupler provided. Refer to the BlueBoat integration guide for more details.

https://bluerobotics.com/learn/BlueBoat-general-integration-guide/





Install the Port Hatch Assembly



The BlueBoat Port Hatch Assembly is installed in the normal way: connect the ESC to the motor, the ESC UNI connector and the stbd XT60. Fit the hatch and fasten the 6 clips.

Refer to the BlueBoat Operators Guide for more details:

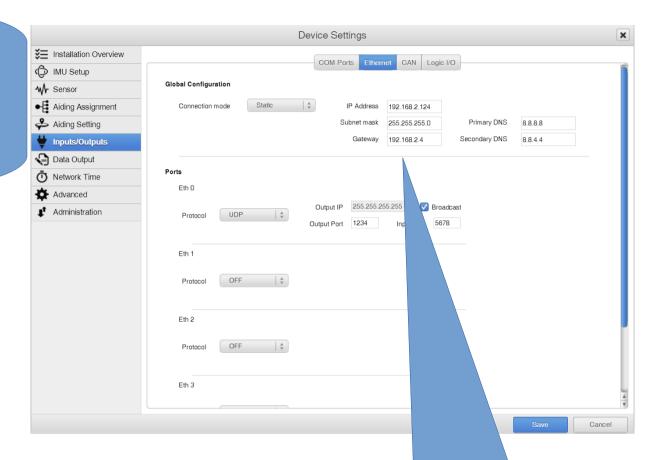
https://bluerobotics.com/learn/blueboat-operators-guide/

Configuring the Ekinox-micro IP Address

BlueBoat and Podlet use 192.168.2.x network addresses. As supplied, your Ekinox-micro may use a different network address. Power on the MBES and INS and connect your notebook directly with an Ethernet cable to the Ethernet Switch within the port hatch assembly. Ensure your notebook is on the same network address as the Ekinox-micro.



Whilst the hatch is open, install the BeamworX dongle in the single board computer. The computer is mounted on the underside of the Electronics tray.



Point a browser to the Ekinox-micro's current IP address and set up the Ekinox-micro with the IP address, Subnet mask and Gateway as above. Save the configuration, power off the port hatch assembly and disconnect your notebook

The BlueBoat Network

BlueBoat Network Addresses

Standard BlueBoat Components:

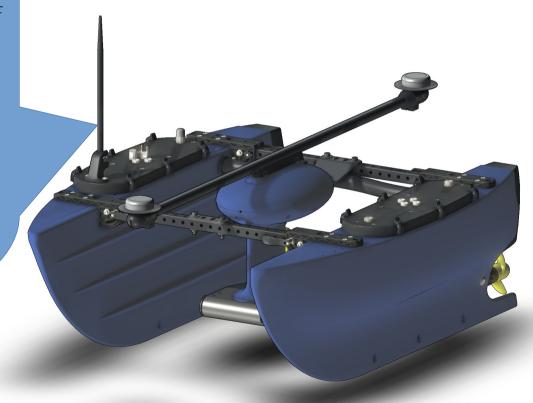
```
192.168.2.1 - your computer's IP address
192.168.2.2 - BlueBoat Raspberry Pi 4
192.168.2.3 - BaseStation wireless router
192.168.2.4 - BlueBoat wireless router
```

Podlet Components:

192.168.2.70 - Single board computer 192.168.2.120 - PicoMB13P 192.168.2.124 - Ekinox-micro

Optional Components

192.168.2.130 - RS2 BaseStation



Operating BlueBoat and Podlet

Refer to the BlueBoat Operators Guide:

https://bluerobotics.com/learn/blueboat-operators-guide/

- Power on the BlueBoat BaseStation
- Power on the BlueBoat stbd hatch
- Power on the BlueBoat port hatch

BeamworX .XML and Ekinox-micro .JSON configuration files are available from Picotech preconfigured for BlueBoat + Podlet





Set notebook WiFi IP address to 192,168,2,1 and connect to the BlueBoat BaseStation SSID. Connect a gamepad to notebook.

- => Use QGroundControl for BlueBoat navigation and guidance
- => Use Remote Desktop Connection (Windows) or Remmina (Linux) to connect with the onboard computer @ 192.168.2.70 (username=user, password=password)

The onboard computer runs BeamworX for MBES and INS acquisition.

