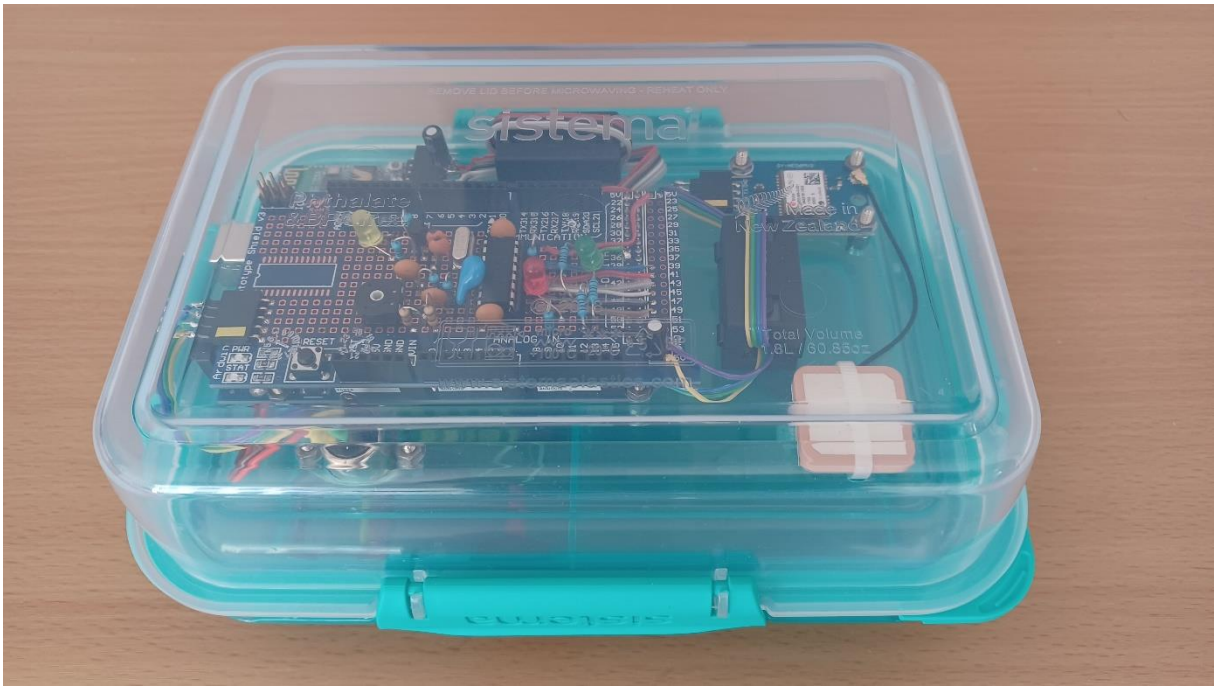
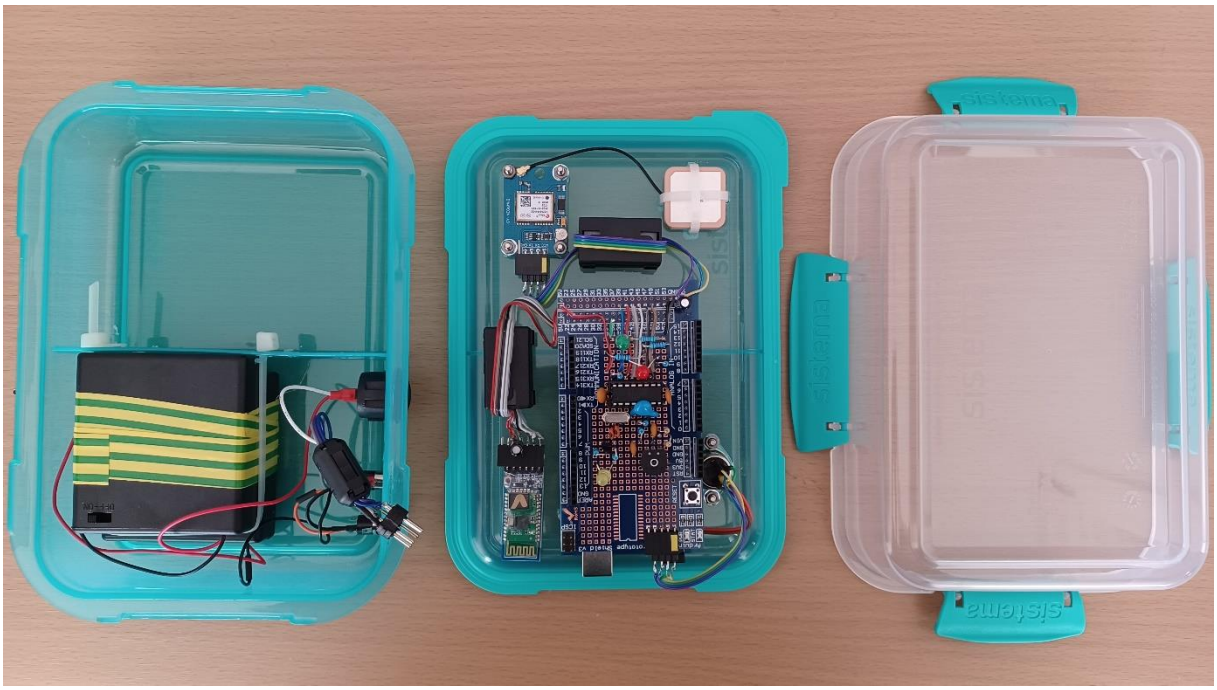
HA2ZB APRS TNC prototype hardware setup

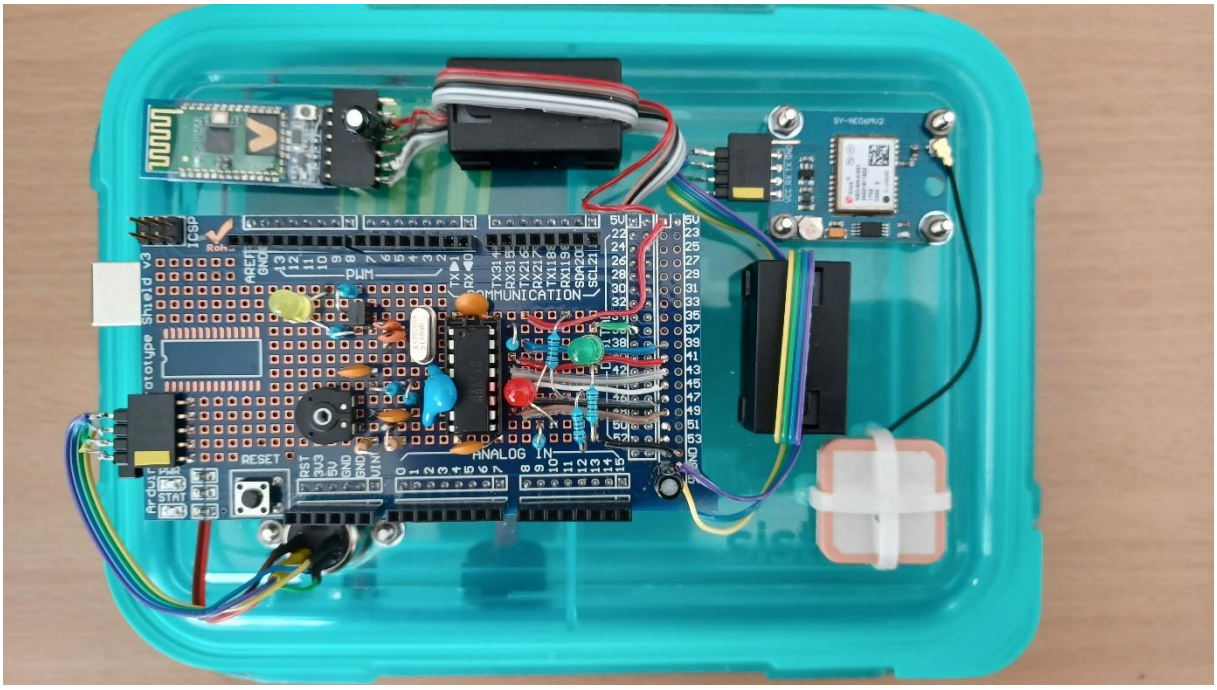
This design is not optimized for size, but supports easy testing and further extensions, changes. Field operation is also possible due to the mechanical and environmental (dust, water) protection.



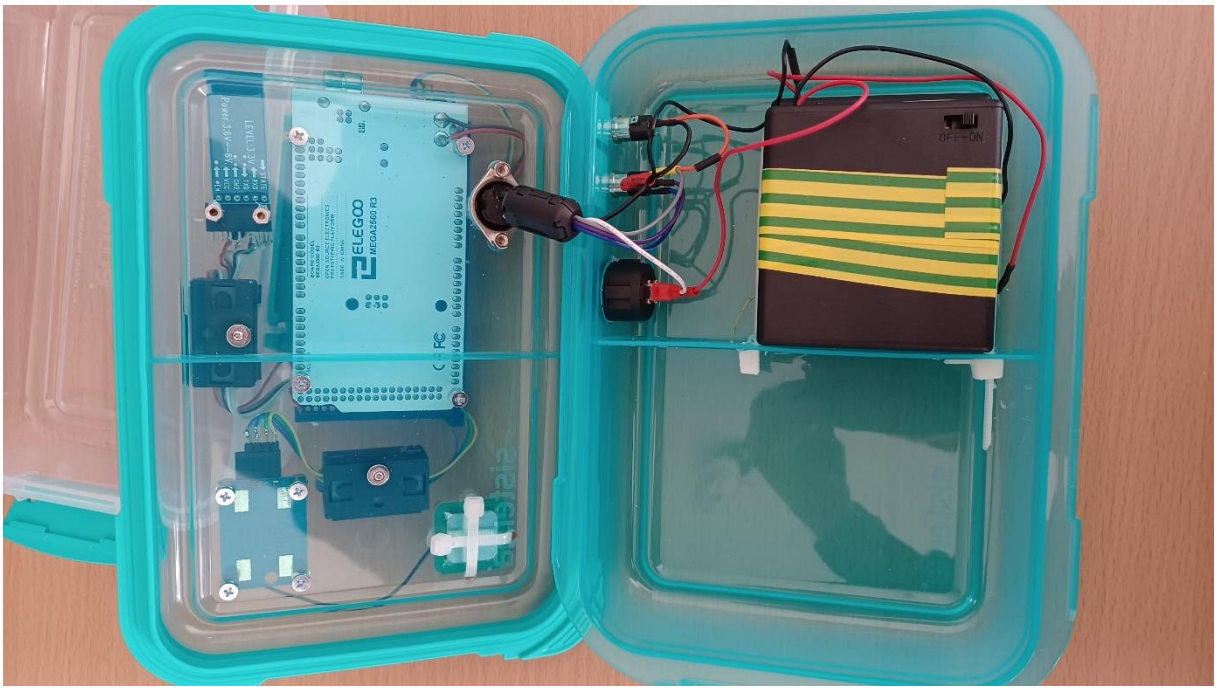


The motherboard (Elegoo Mega 2560), the modem unit (deployed on Arduino Prototype Shield V3), the HC-05 Bluetooth interface and the GY-NEO6MV2 GPS unit are mounted on the separation panel of a Sistema 1.8L LunchStack™ TO GO™ food storage box (Style 21710).

The cables from the BT and GPS are led through ferrite beads to reduce EMI.



The battery unit (8x1,2V NiMH AA cells), on-off switch and external (Radio, Monitor) connectors take place in the multi compartment part of the box, leaving free the other half for further extension, cable storage etc.



5p DIN connector and plug are applied between the battery-connector-switch compartment and the baseboard to allow easy dismantling.