

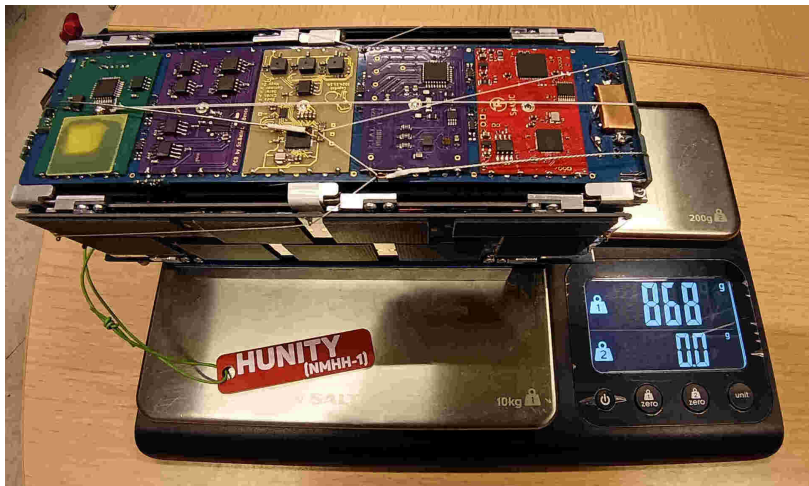
Hunity (NMHH-1) - BME VIK HVT MTL + MRC



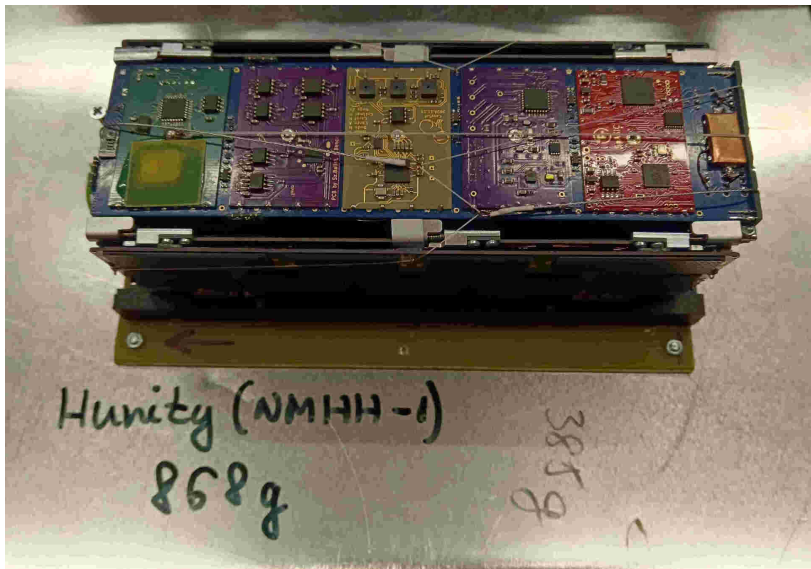
dr. Dudás Levente, dr. Gschwindt András

dudas.levente@vik.bme.hu

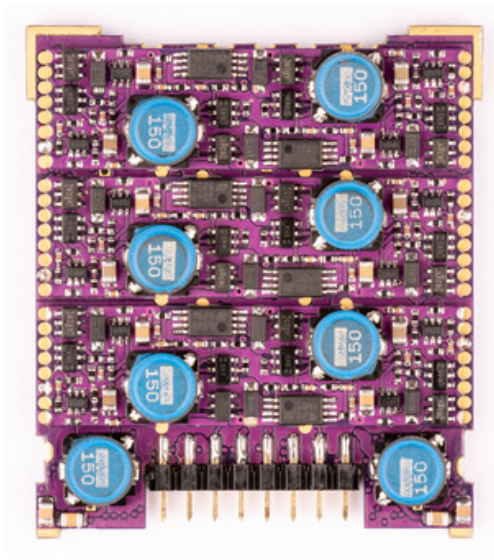
Hunity (NMHH-1) on Falcon-9 (Transporter-15) 1



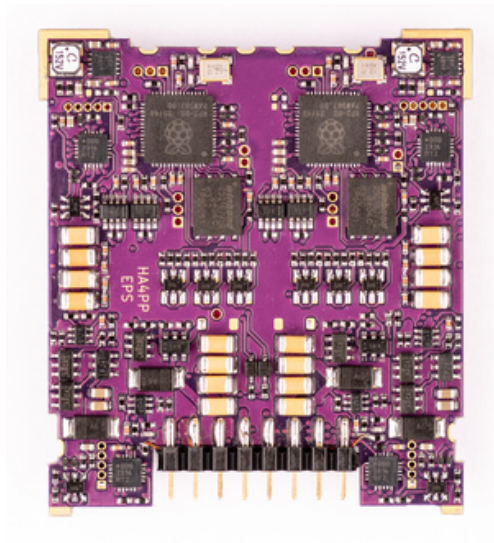
Hunity (NMHH-1) on Falcon-9 (Transporter-15) 2



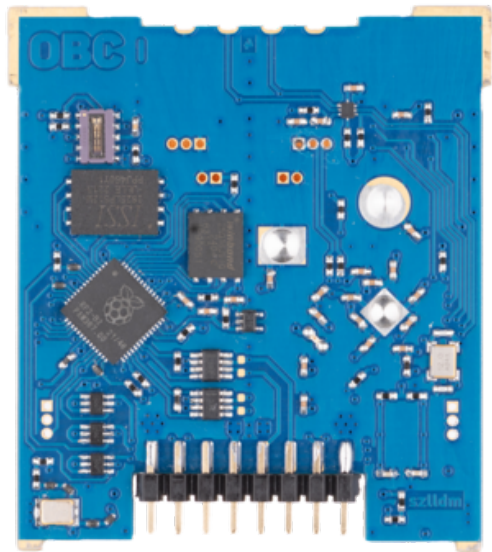
Electrical Power System 1



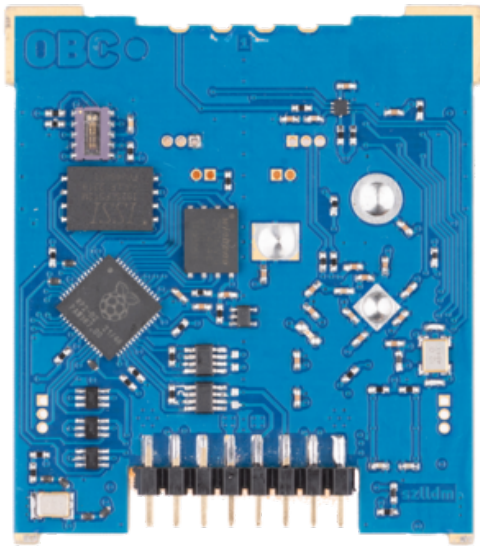
Electrical Power System 2



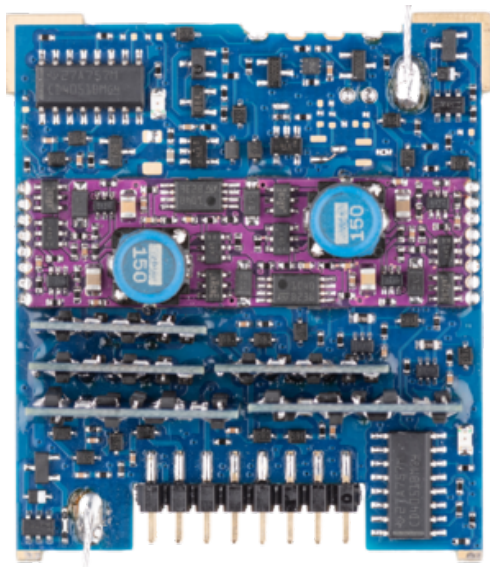
On-Board Computer 1



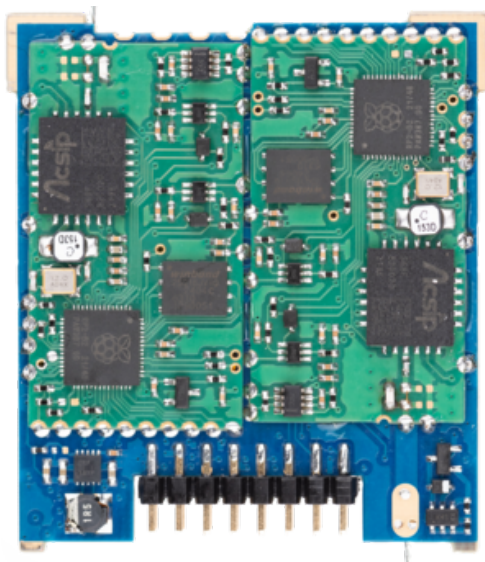
On-Board Computer 2



COMmunicational System 1



COMmunicational System 2



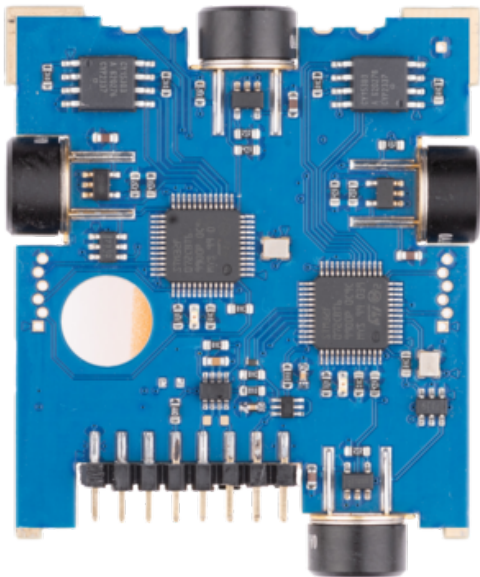
Battery + CAMera 1



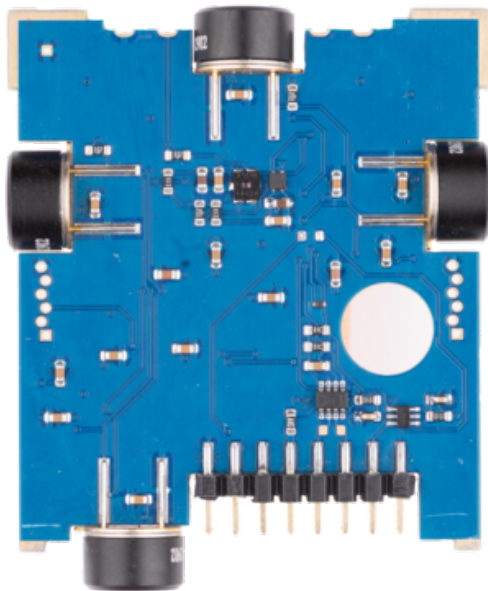
Battery + CAMera 2



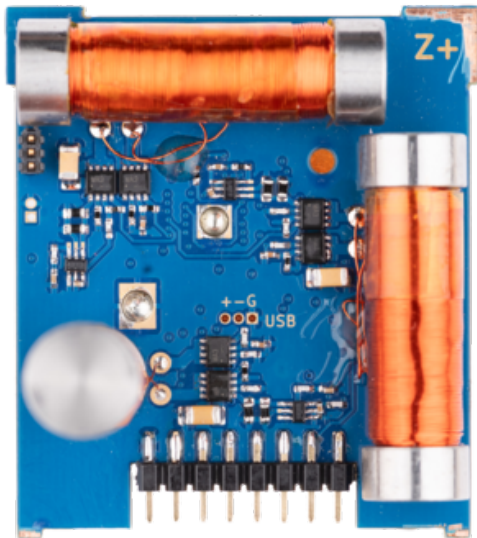
SUN Sensor 1



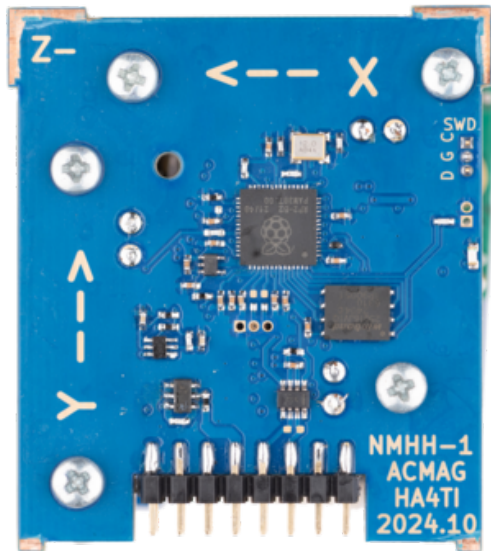
SUN Sensor 2



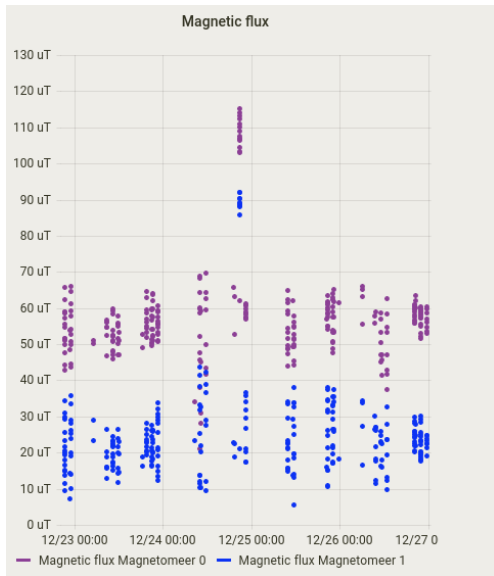
Attitude Control MAGnetic 1



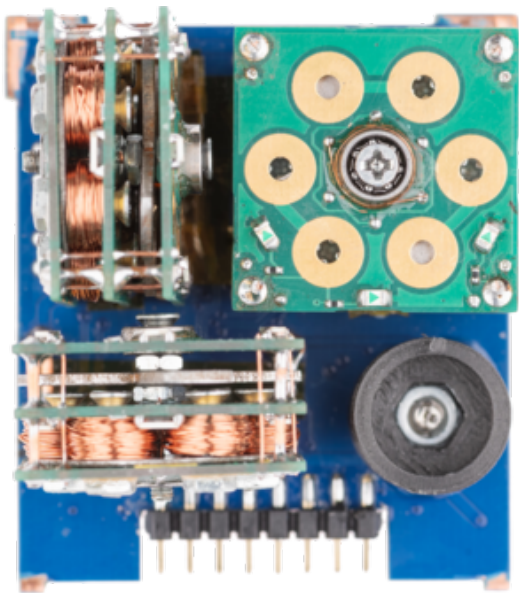
Attitude Control MAGnetic 2



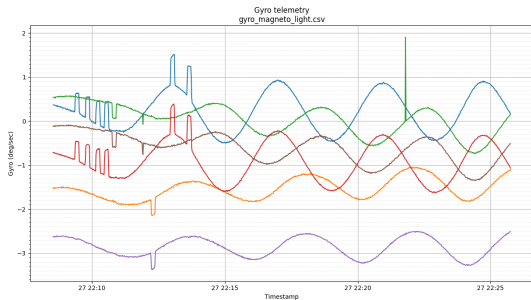
Attitude Control MAGnetic 3



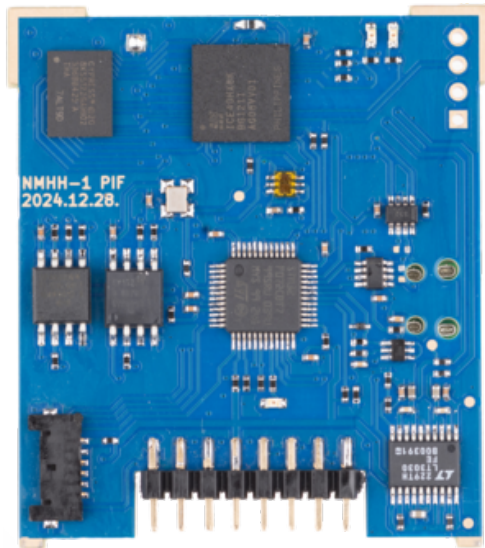
Attitude Control MOTor 1



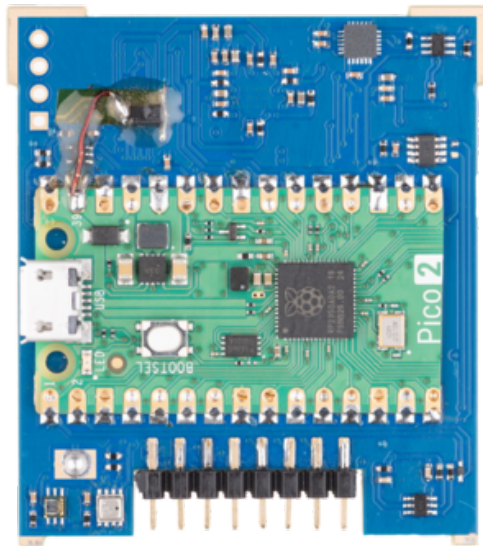
Attitude Control MOTor 2



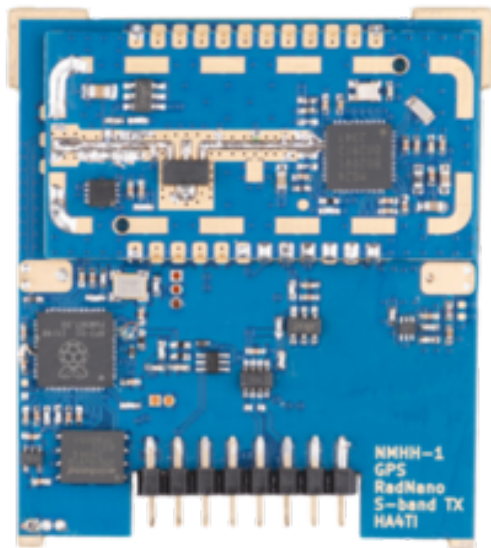
Pico2 + FPGA 1



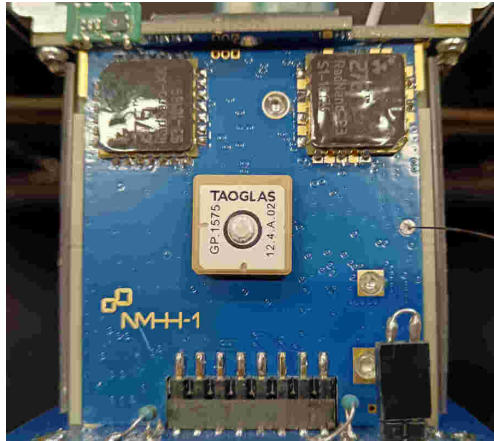
Pico2 + FPGA 2



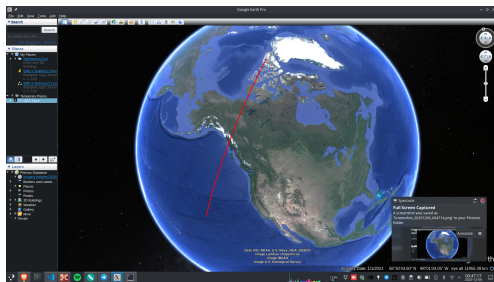
GPS + Radiation Sensor 1



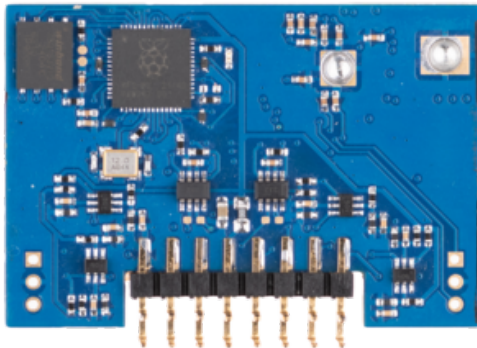
GPS + Radiation Sensor 2



GPS + Radiation Sensor 3



Router 1



Experiments 1



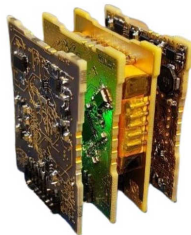
Győr Széchenyi István University SZESAT team

The SZESAT is a satellite within the NMHH-1 mission, developed by Széchenyi István University of Győr, featuring advanced technological demonstrations and experiments.

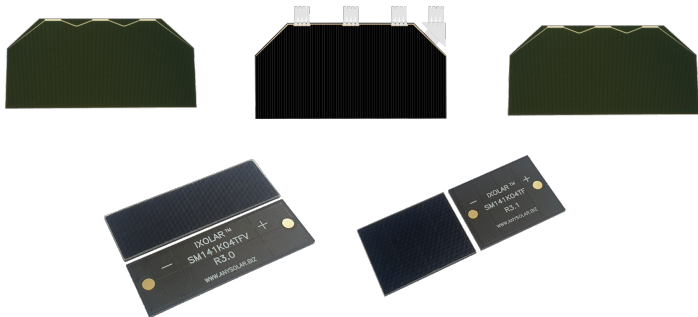
- ✖ Satellite within HUNITY
- ✖ **Technological demonstration**
- ✖ **Laser communication experiment**
- ✖ Orientation detection with semiconductor sensor

More information:

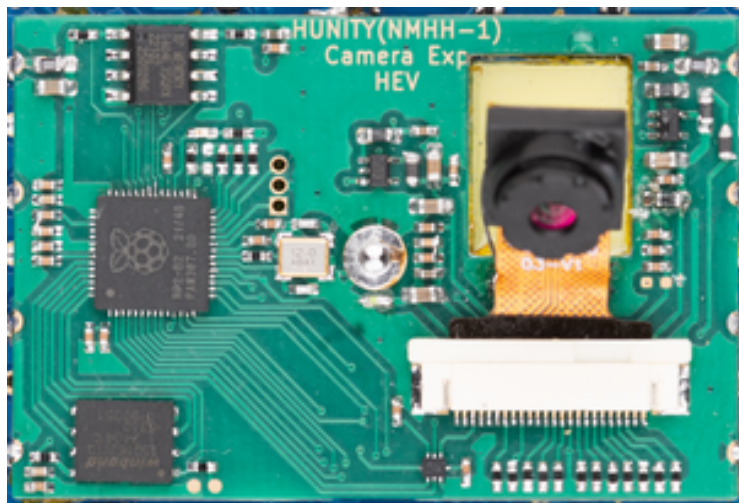
Visit [SZESAT Website](#)



Experiments 2



Experiments 3



Experiments 4



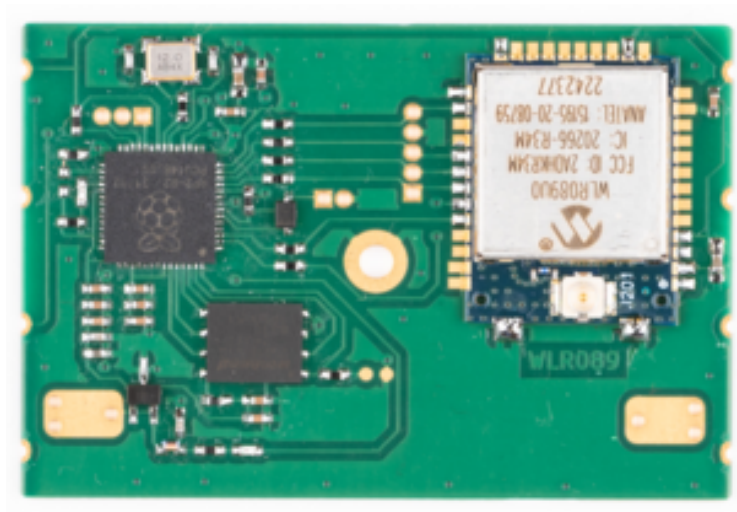
Experiments 5



Experiments 6



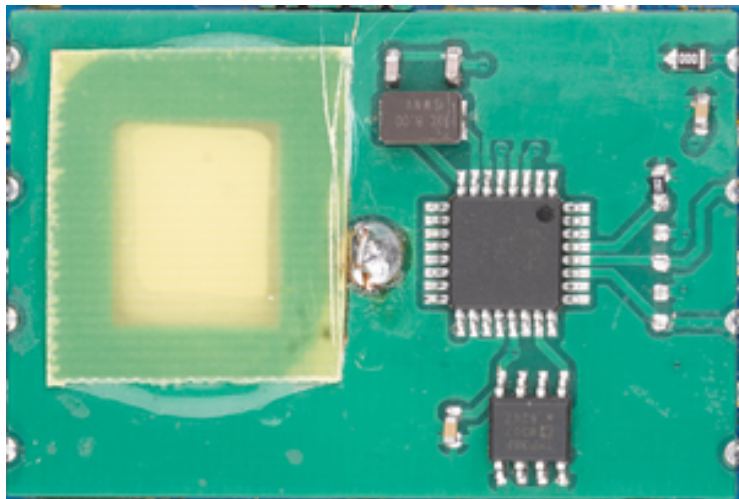
Experiments 7



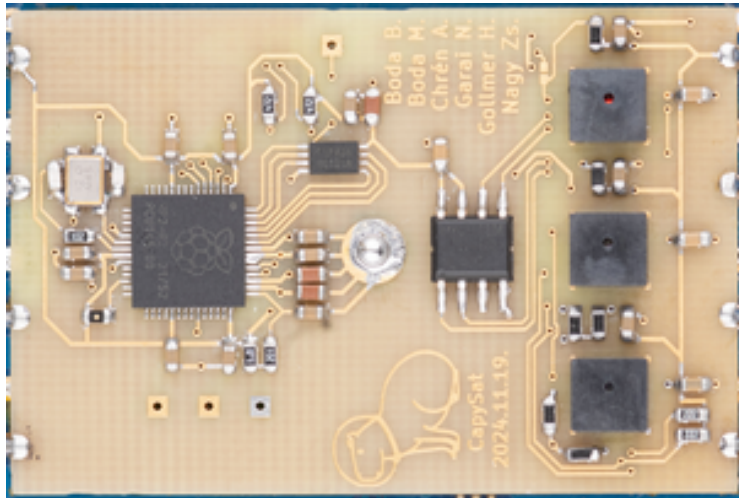
Experiments 8



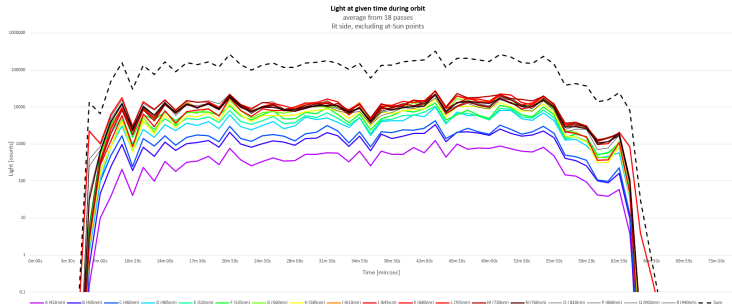
Experiments 9



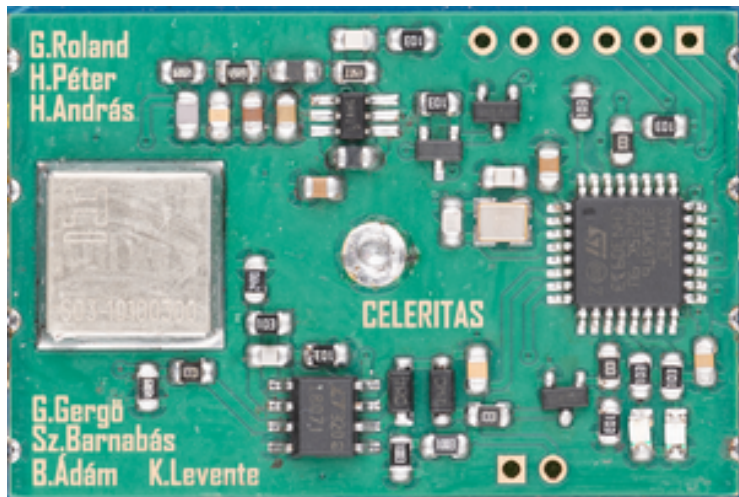
Experiments 10



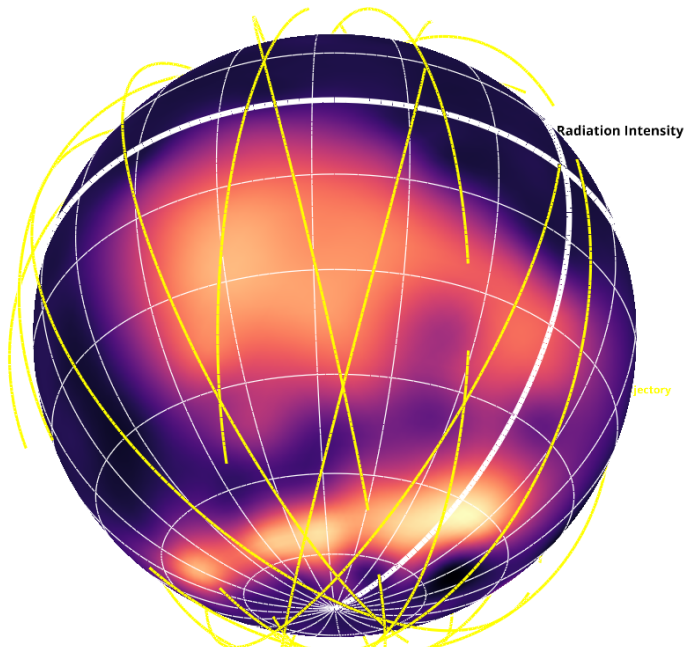
Experiments 11



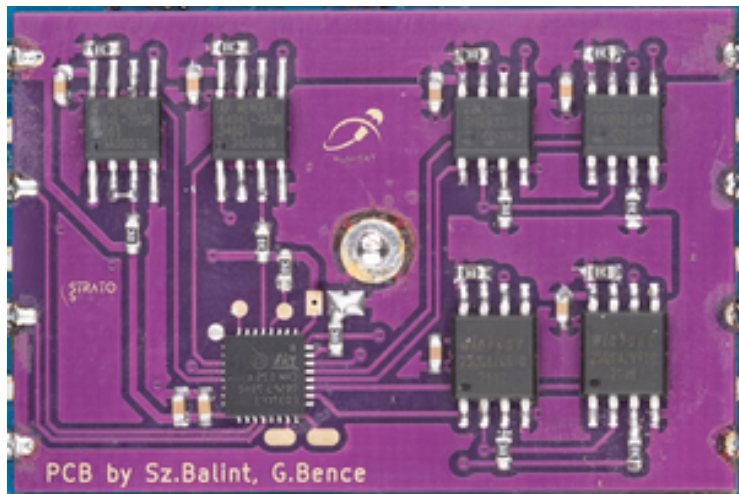
Experiments 12



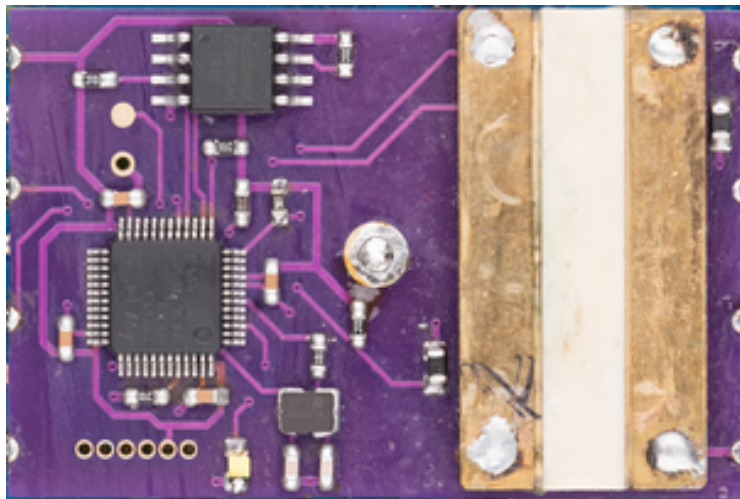
Experiments 13



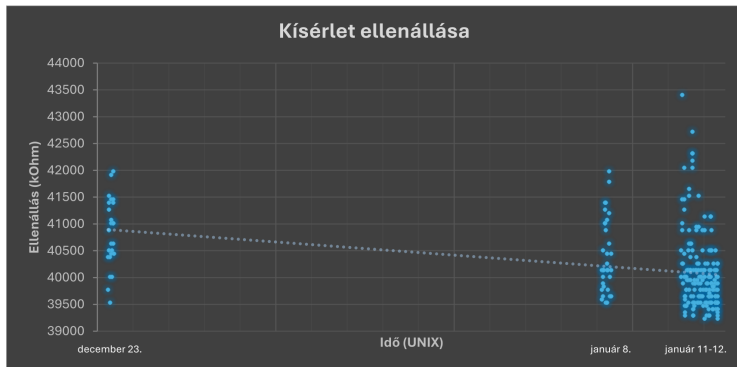
Experiments 14



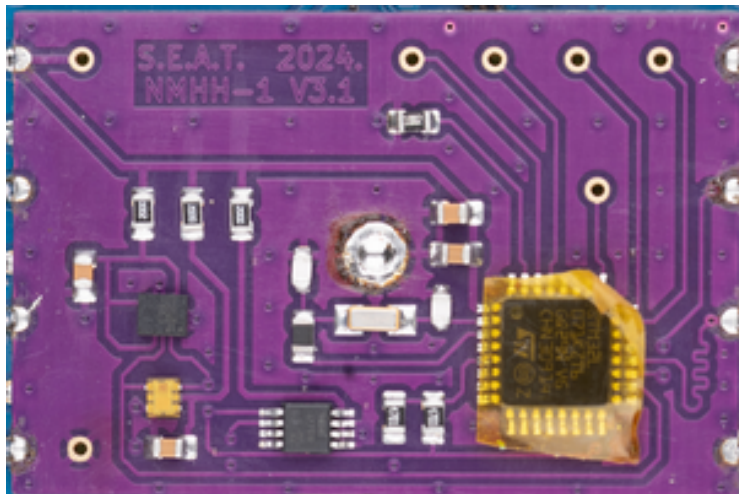
Experiments 15



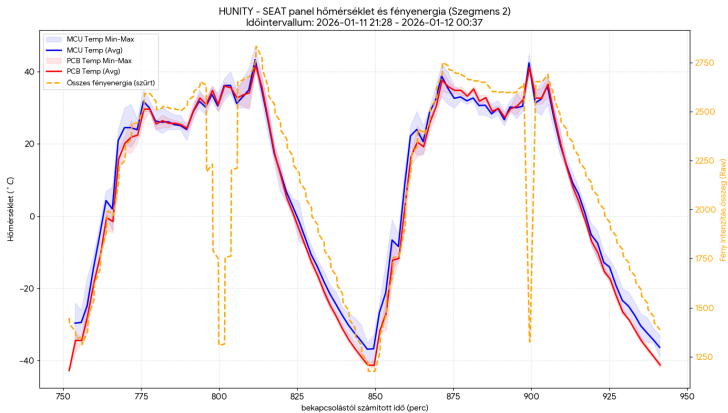
Experiments 16



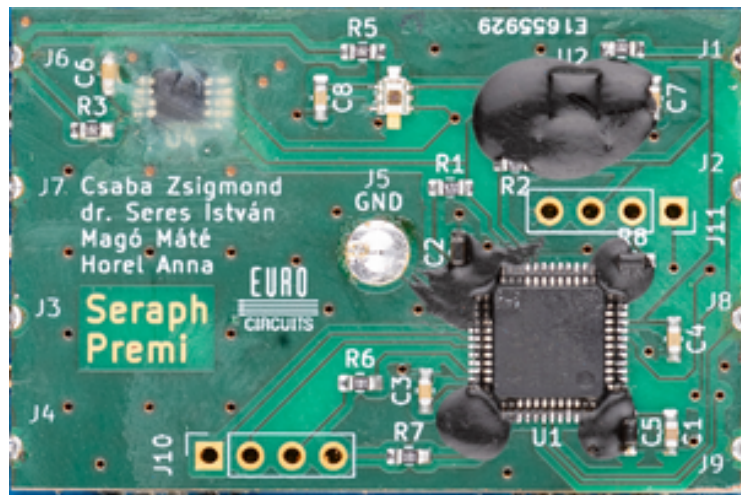
Experiments 17



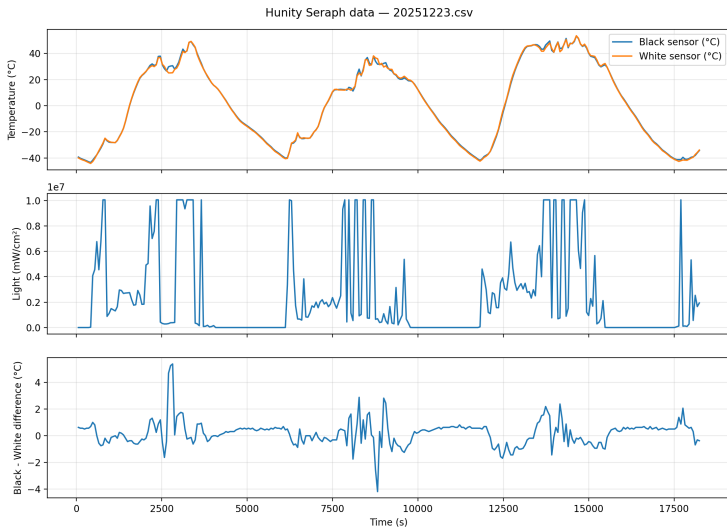
Experiments 18



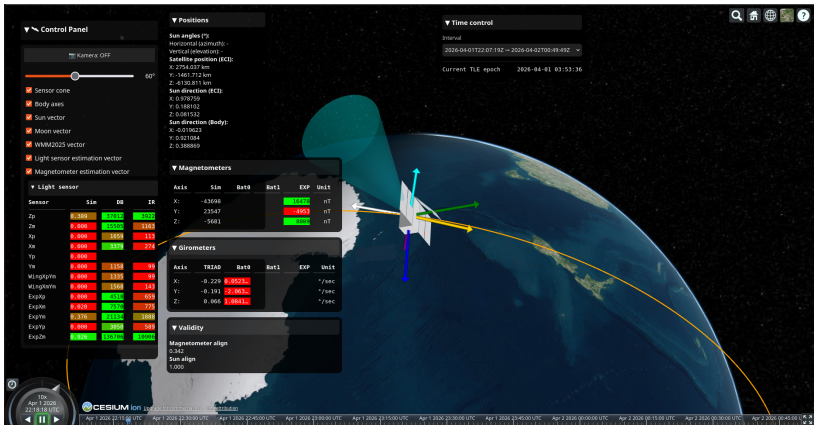
Experiments 19



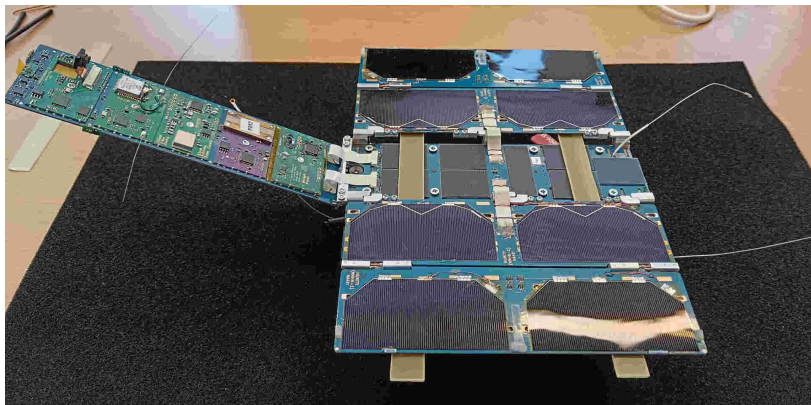
Experiments 20



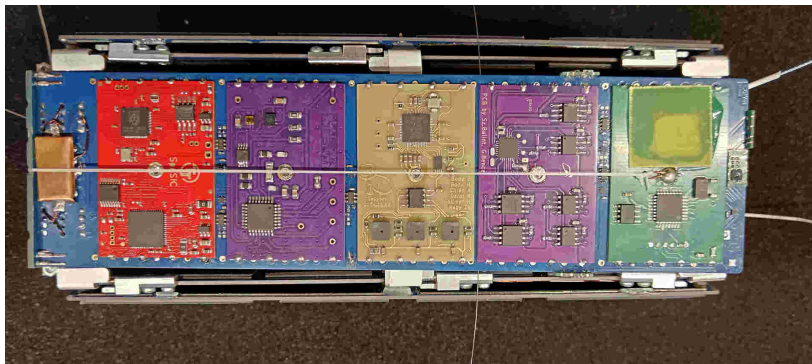
Sensor Calibration 1



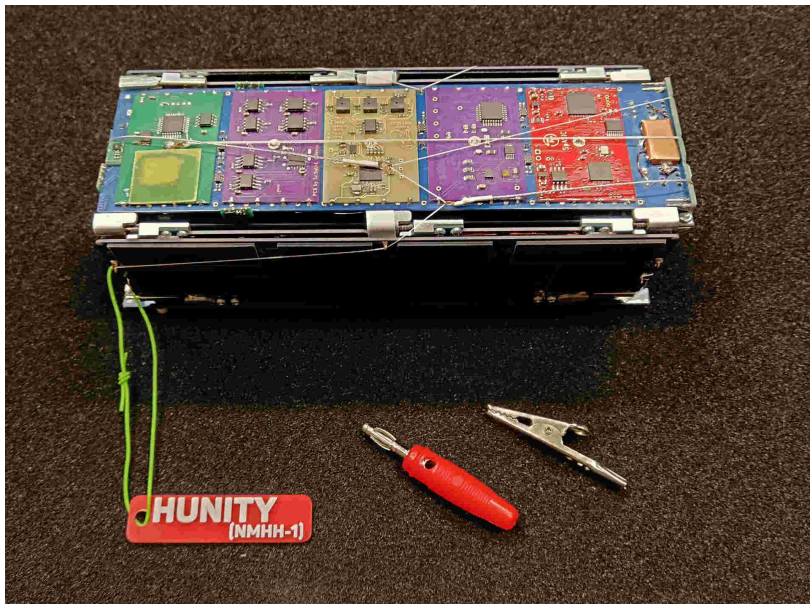
Hunity (NMHH-1) 1



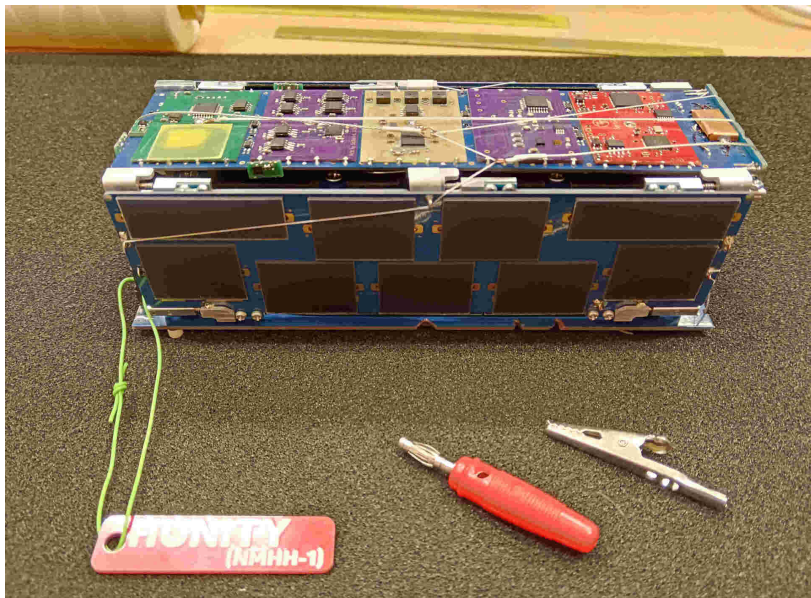
Hunity (NMHH-1) 2



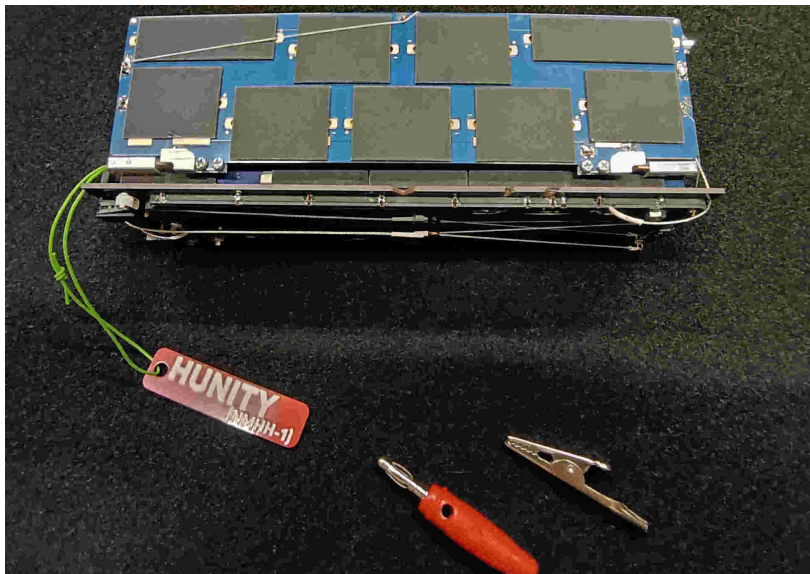
Hunity (NMHH-1) 3



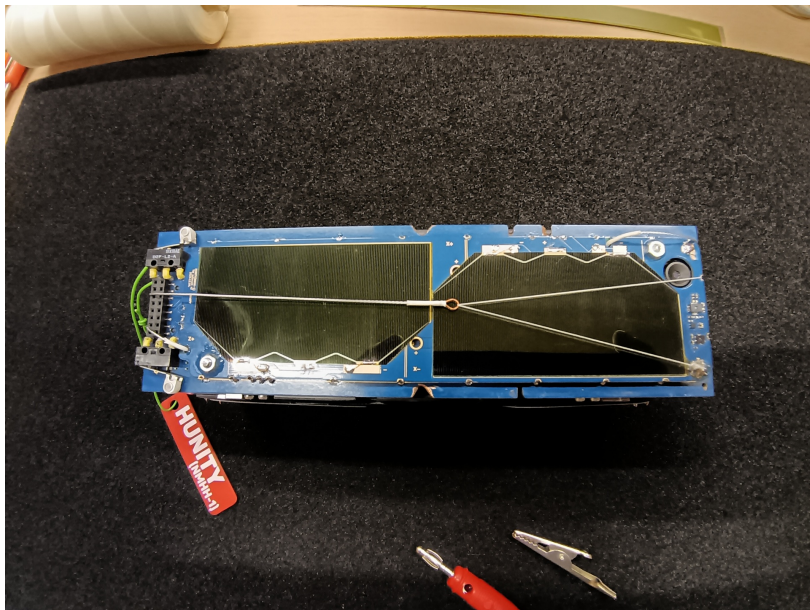
Hunity (NMHH-1) 4



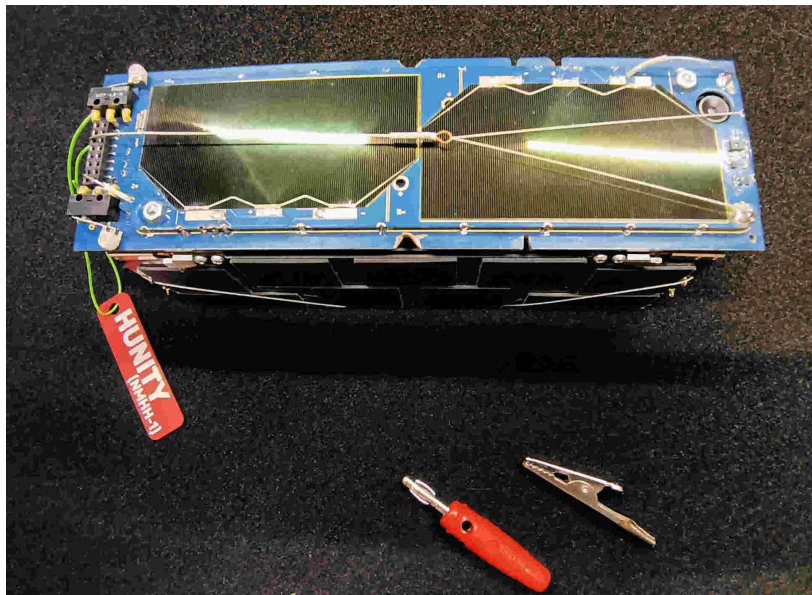
Hunity (NMHH-1) 5



Hunity (NMHH-1) 6



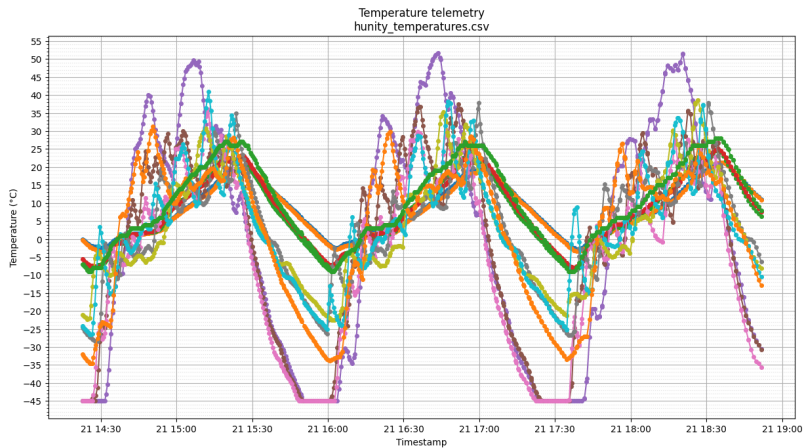
Hunity (NMHH-1) 7



Hunity (NMHH-1) 8



Hunity (NMHH-1) Ground Station 1



Hunity (NMHH-1) Ground Station 2

BME - GND

gnd.bme.hu

BME - GND

Kezdőlap

Hírek

Rólunk

Galéria

Műholdak

Amatőrök

Támogatók

Kapcsolat

**BME - GND**

"a határ a csillagos ég"

Kezdőlap

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Amatőrök

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Kapcsolat

FÖLDI ÁLLOMÁS

műholdkövetés, vezérlés

[bővebben>>](#)



Legújabb

Kapu Tibor ISS összeköttetés

2025.07.02.

2025. július 3-án, több hónapi készülődés után sikeresen felvettük a kapcsolatot a magyar diákok Kapu Tiborral az ISS fedélzetén. Nagyon jó volt a kapcsolat. A kísérletről készült felvételt itt megnézhető: youtube

[Tovább>>](#)



SMOG-1 jelaó

2021.05.01.

2021. április 29-én az O.M.K. épület tetőszintjére kikerült egy távvezérelt jelaó, amely az elsődleges SMOG-1 földi vezérlő állomás rádiófrekvenciás paramétereinek mérésére, kalibrálására szolgál: érzékenység mérés, antenna iránykarakterisztika mérés, nyereség, irányíthatóság szög, iránykalibráció.

Ajánlott



HUNITY

Oktatási célú 15x5x5 cm-es(3pq) pocketcube

[Tovább>>](#)



MRC-100

Oktatási célú 15x5x5 cm-es(3pq) pocketcube

[Tovább>>](#)



SMOG-1 és SMOG-P

1 2 3 4

BME - GND - Chromium

levi@levi: -/smog1pr...

14:52

Hunity (NMHH-1) Ground Station 3

BME - GND

gnd.bme.hu/ham.php

Dudás Levente... nyomtató DJ BOBO „LA BO... radar BME - GND ActaAstronautica 46 Új lap szband Index of /16 Kezdőlap - BME... Minden könyvjelző

 **BME - GND**

"a határ a csillagos ég"

Kezdőlap

Hírek

Rólunk

Galéria

Műholdak

Amatőrök

Támogatók

Kapcsolat

Élő kameraképek



parabola3m2025-11-1414:57:14



parabola4m52025-11-1414:57:14

A fenti videókat két Raspberry PI és a hozzájuk tartozó kamerák szolgáltatják.

Web SDR

MŰHOLD KÖVETÉS

jelenleg több rádióamatőr műholdat is követünk, alkalom szerűen, ekkor lehet a web SDR felületén keresztül, hallgatni az éppen aktuális műhold jeleit.

1234

BME - GND - Chromium

levi@levi: ~/mog1pr...

Képek

14:57

Hunity (NMHH-1) Ground Station 4

The screenshot displays the website for the HUNITY Satellite project. The browser's address bar shows the URL `gnd.bme.hu/hunity`. The website's header includes navigation links: Home, Subsystems, Payload, Tune In, Publications, Sponsors, Team, and Gallery. A language selector indicates 'HU / EN'. The main banner features a satellite in orbit over a stylized map of Hungary, with the text 'HUNITY Satellite' and 'A student-developed satellite project by Budapest University of Technology and Economics'. Below this are buttons for 'Explore Subsystems' and 'Contact Us'. The 'Cutting-Edge Satellite Technology' section highlights the project's focus on advanced subsystems. The footer shows a taskbar with various application icons and a system clock at 14:54.

NMHH-1 / HUNITY Satellite | BME Space Research -- Chromium

gnd.bme.hu/hunity

Home Subsystems Payload Tune In Publications Sponsors Team Gallery HU / EN

HUNITY Satellite

A student-developed satellite project by Budapest University of Technology and Economics

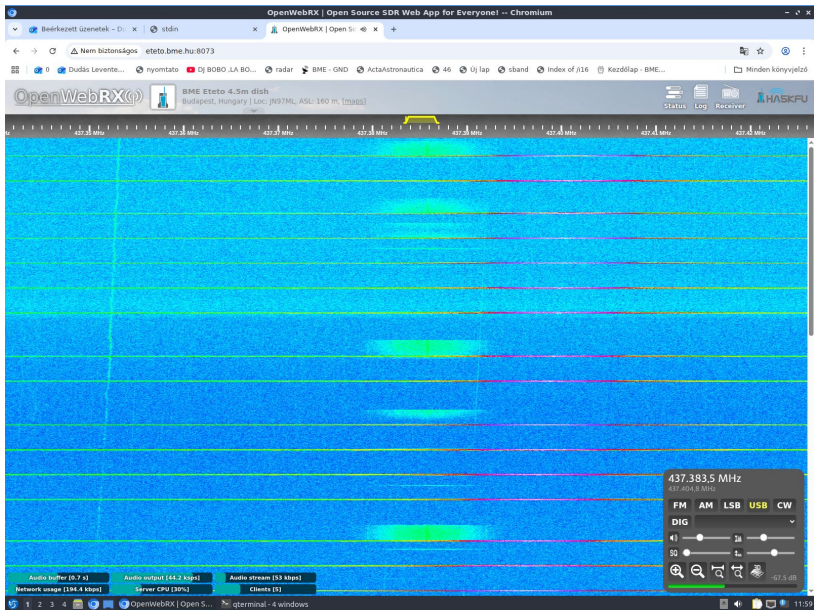
Explore Subsystems → Contact Us →

Cutting-Edge Satellite Technology

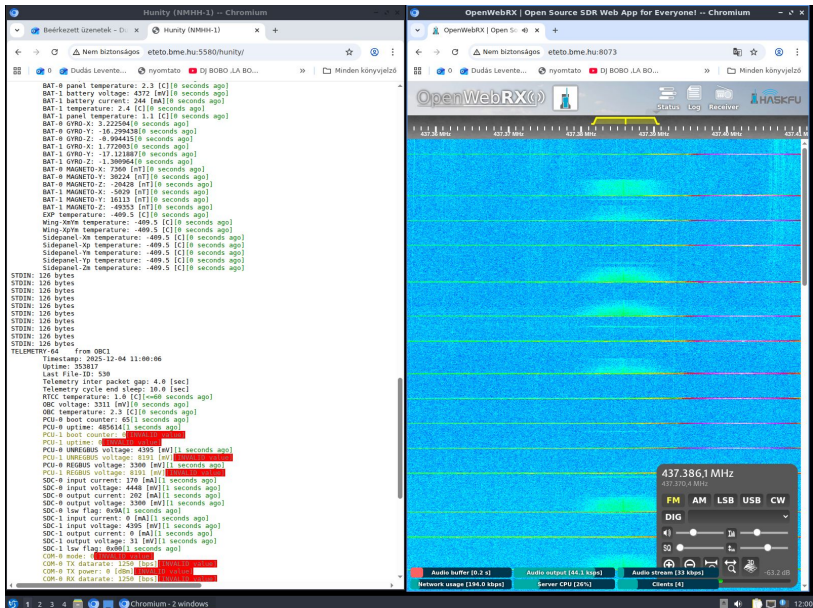
HUNITY combines advanced subsystems to create a powerful research platform in space

1 2 3 4 NMHH-1 / HUNITY Sat... levi@levi: ~/smog1pr... Képek 14:54

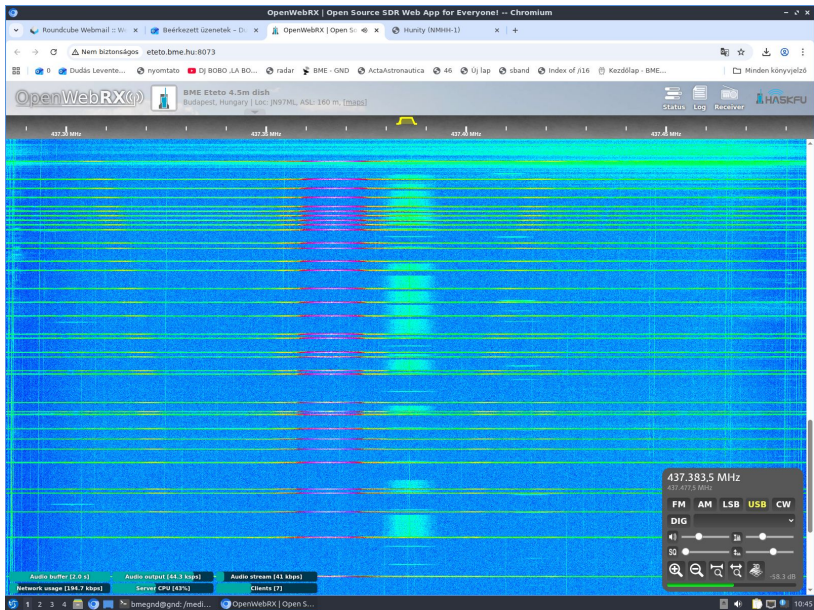
Hunity (NMHH-1) Operation 1



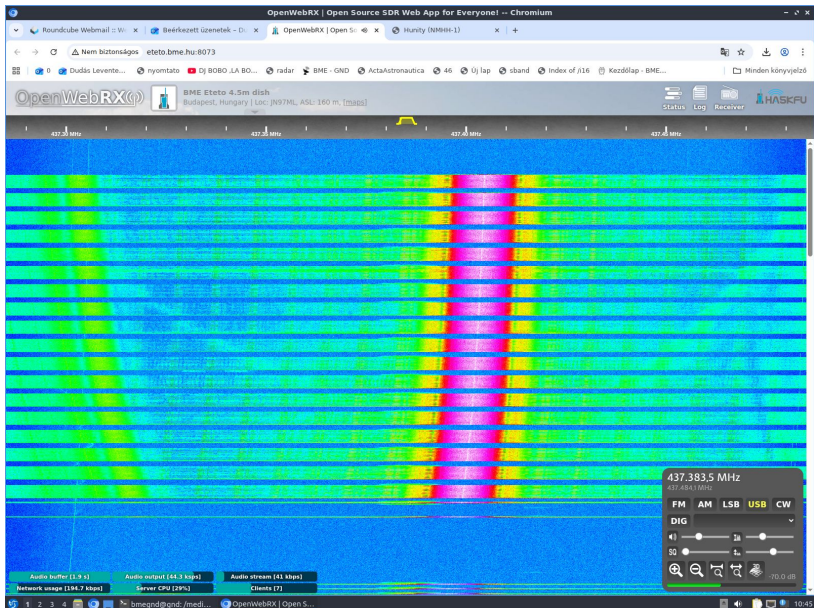
Hunity (NMHH-1) Operation 2



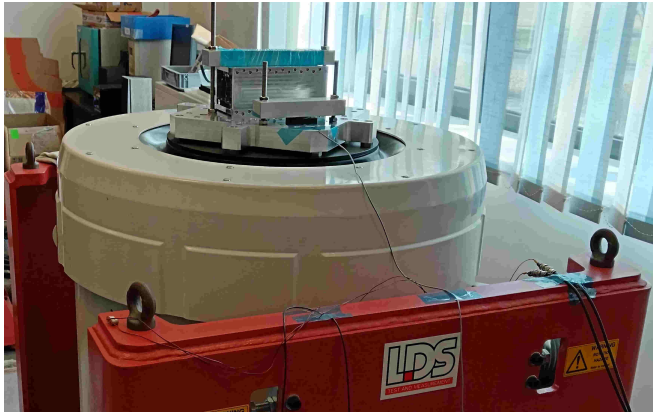
Hunity (NMHH-1) Operation 3



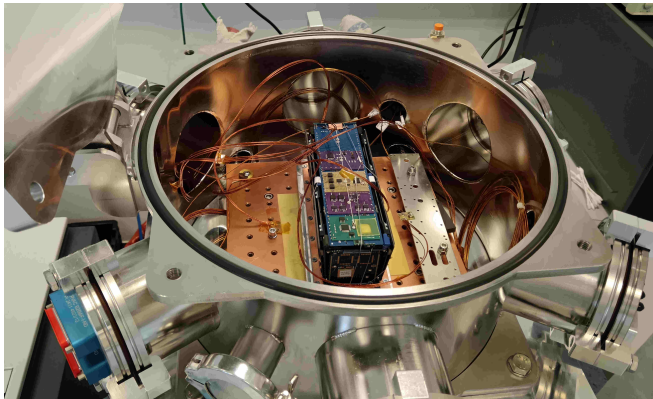
Hunity (NMHH-1) Operation 4



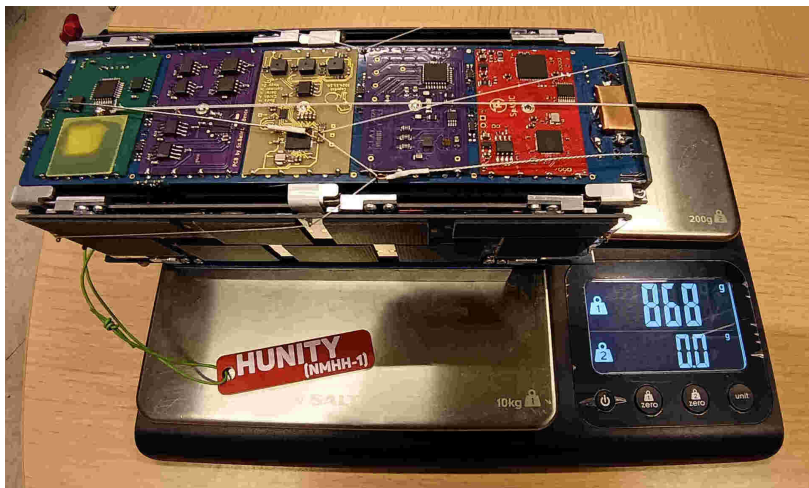
Environmental Tests 1



Environmental Tests 2



Hunity (NMHH-1) - BME VIK HVT MTL + MRC



Falcon-9 Transporter-15 2025-11-19 18:18 UTC

<https://gnd.bme.hu/>

<https://gitlab.com/phorvath/smogcli2>