

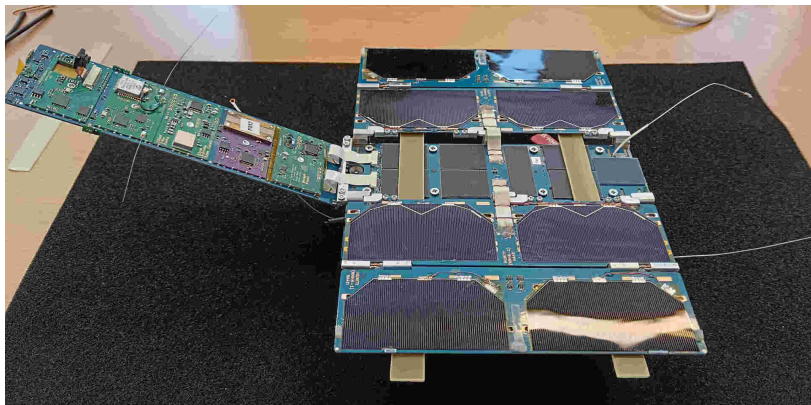
Hunity (NMHH-1) - BME VIK HVT MTL + MRC



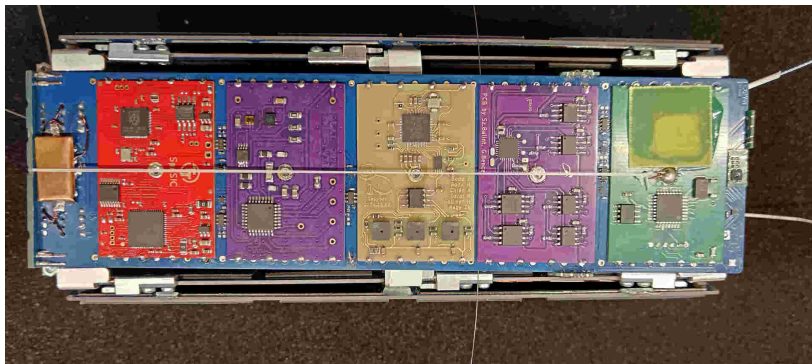
dr. Dudás Levente, dr. Gschwindt András

dudas.levente@vik.bme.hu

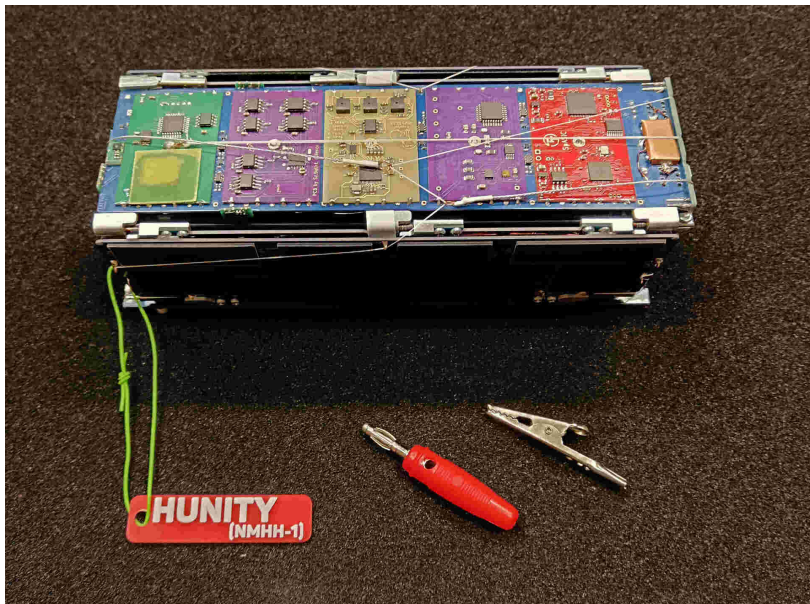
Hunity (NMHH-1) 1



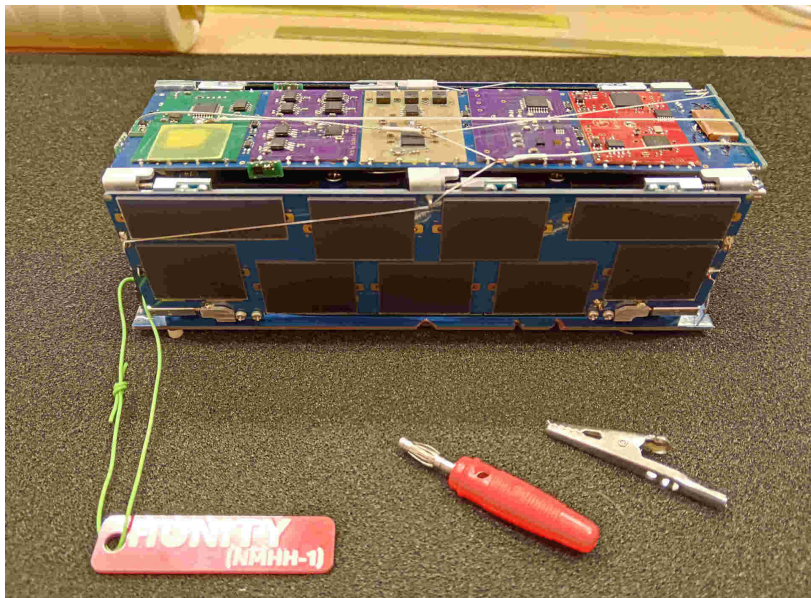
Hunity (NMHH-1) 2



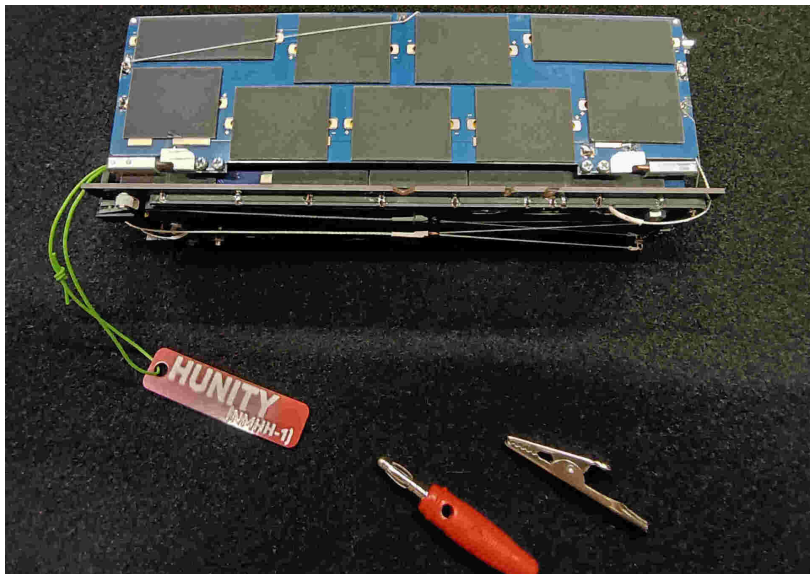
Hunity (NMHH-1) 3



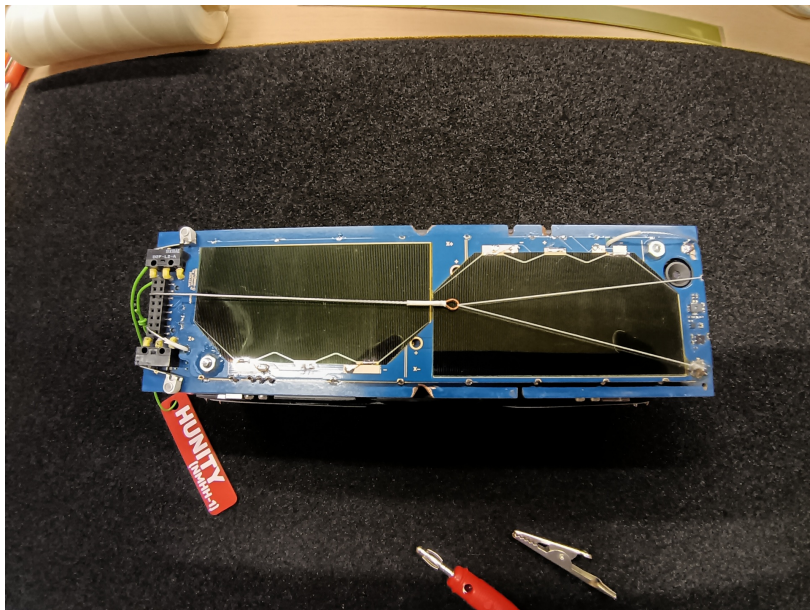
Hunity (NMHH-1) 4



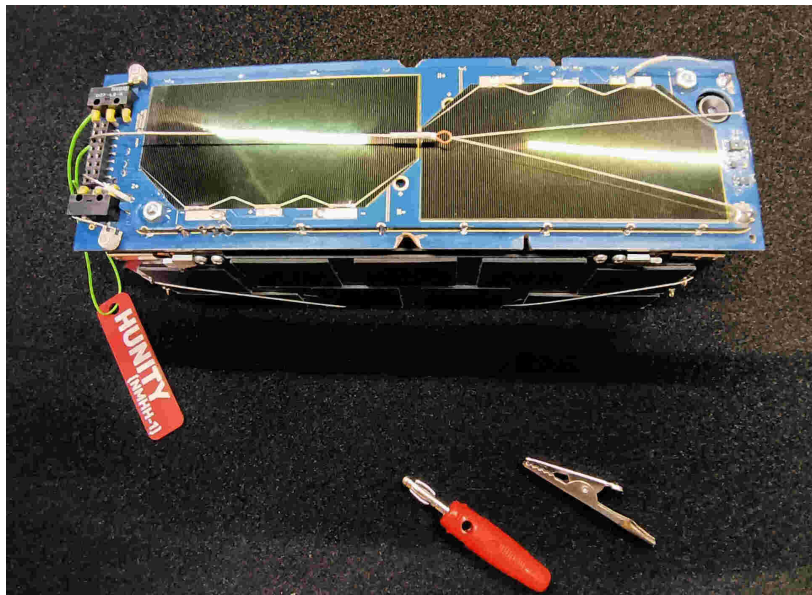
Hunity (NMHH-1) 5



Hunity (NMHH-1) 6



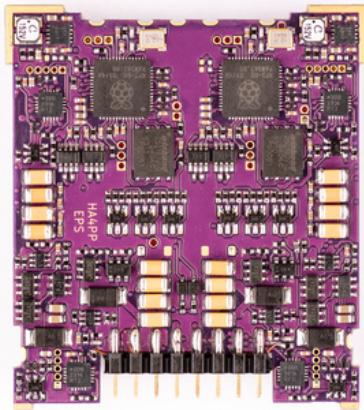
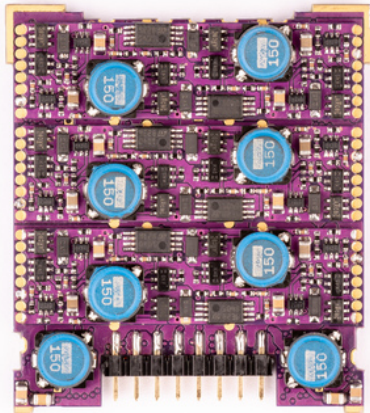
Hunity (NMHH-1) 7



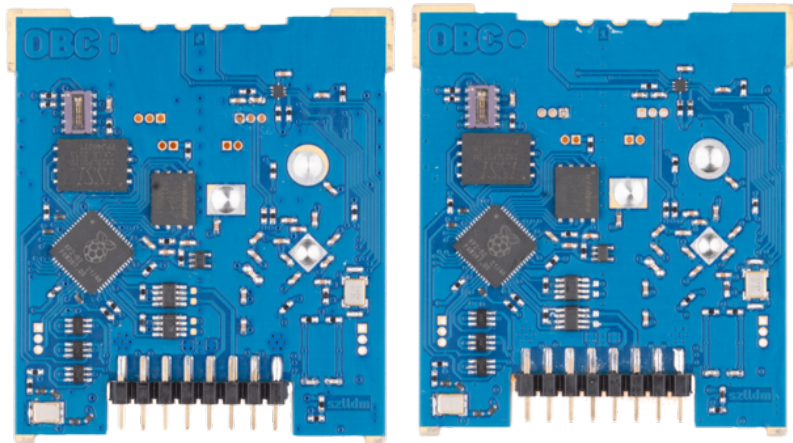
Hunity (NMHH-1) 8



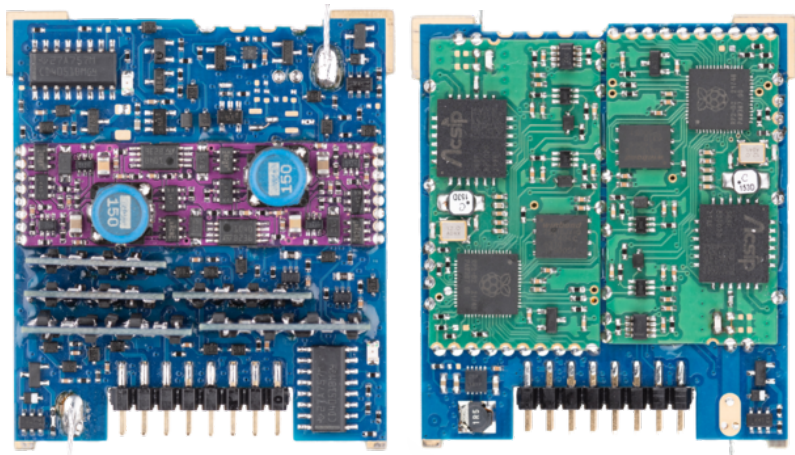
Electrical Power System



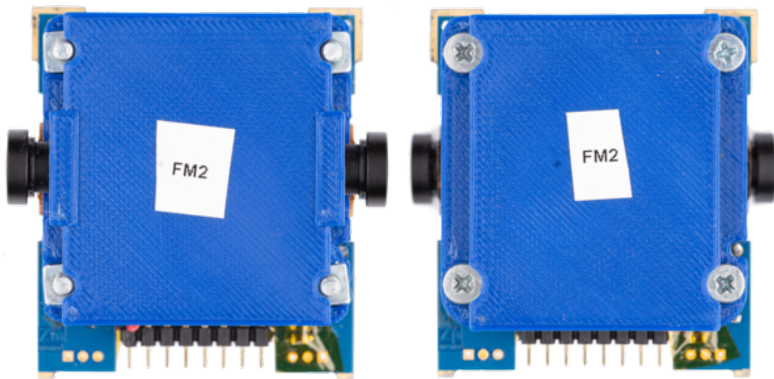
On-Board Computer



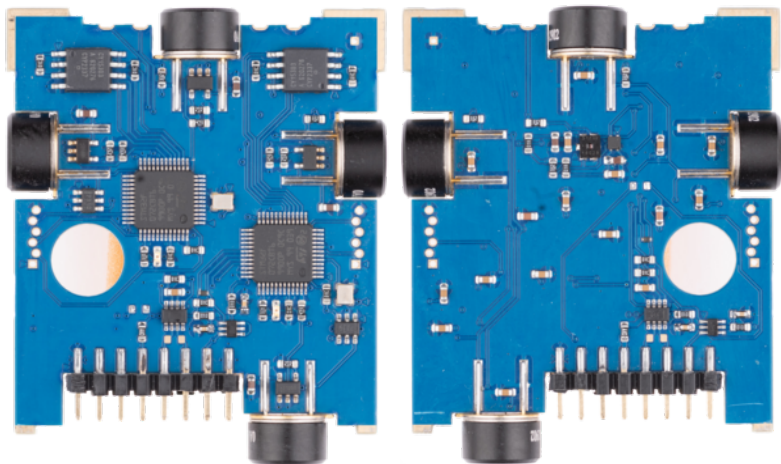
COMmunicational System



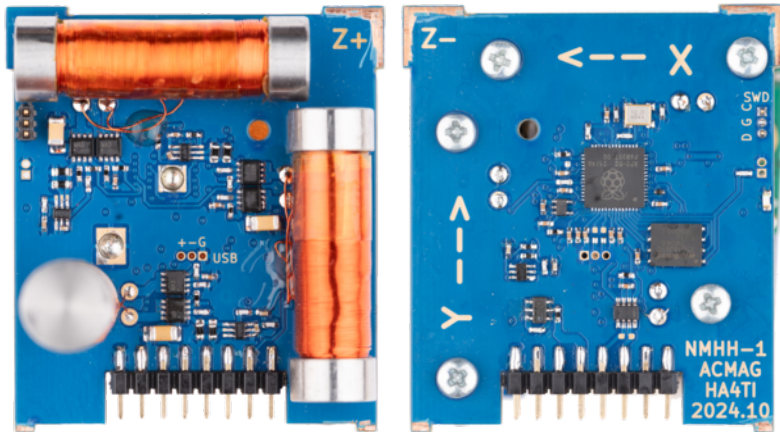
Battery + CAMera



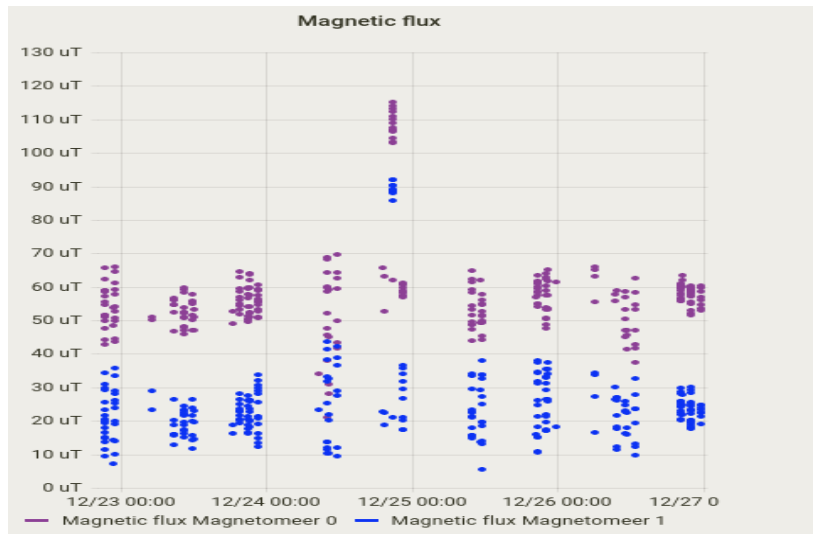
SUN Sensor



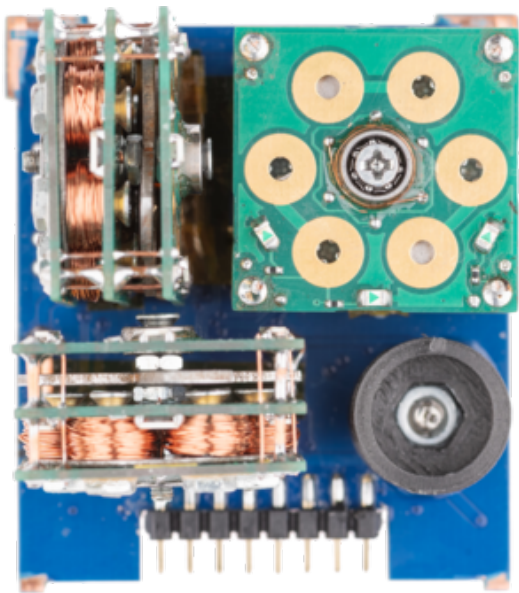
Attitude Control MAGnetic 1



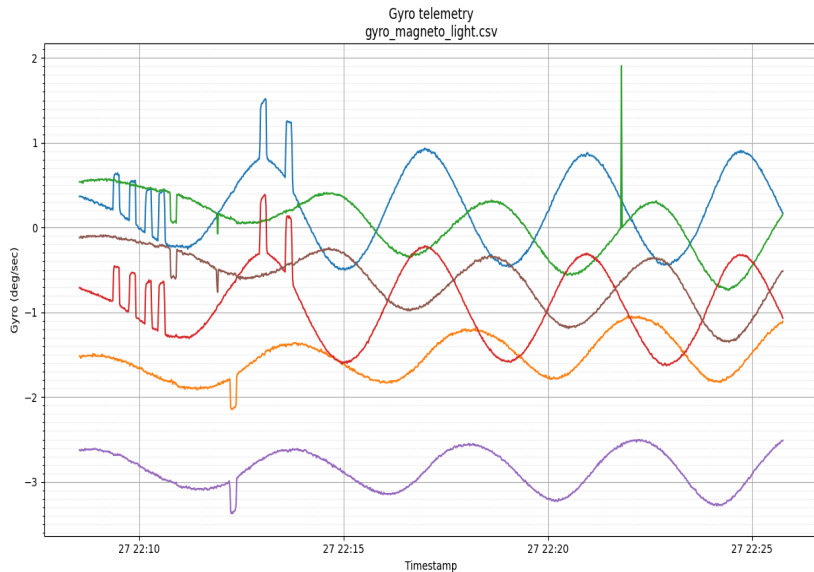
Attitude Control MAGnetic 2



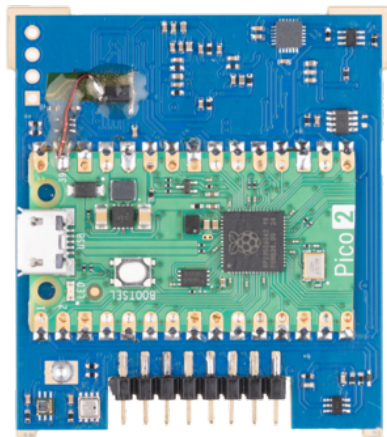
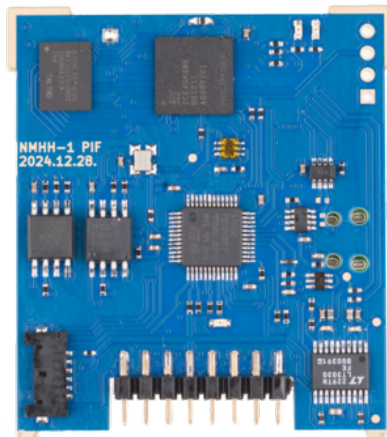
Attitude Control MOTor 1



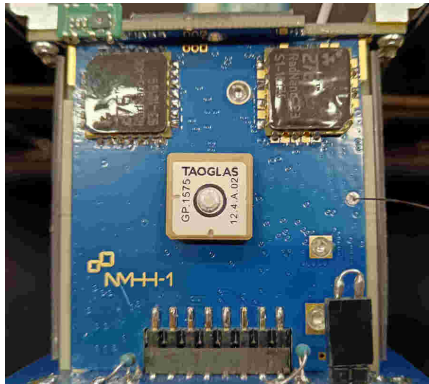
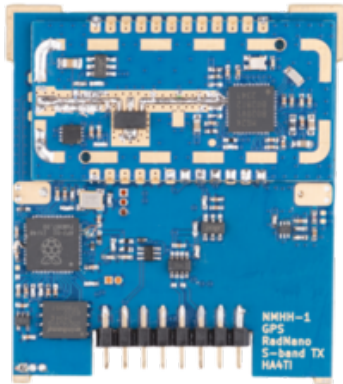
Attitude Control MOTor 2



Pico2 + FPGA



GPS + Radiation Sensor 1



A set of navigation icons typically found in Beamer presentations, including symbols for back, forward, search, and other slide controls.



Experiments: SZESAT



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.

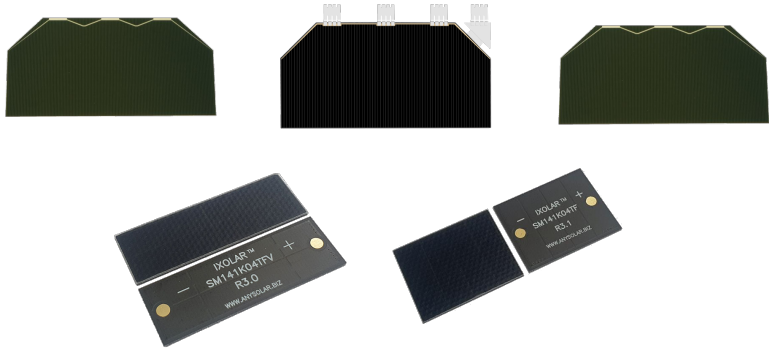
- ✂ Satellite within HUNITY
- ✂ **Technological demonstration**
- ✂ **Laser communication experiment**
- ✂ Orientation detection with semiconductor sensor

More information:

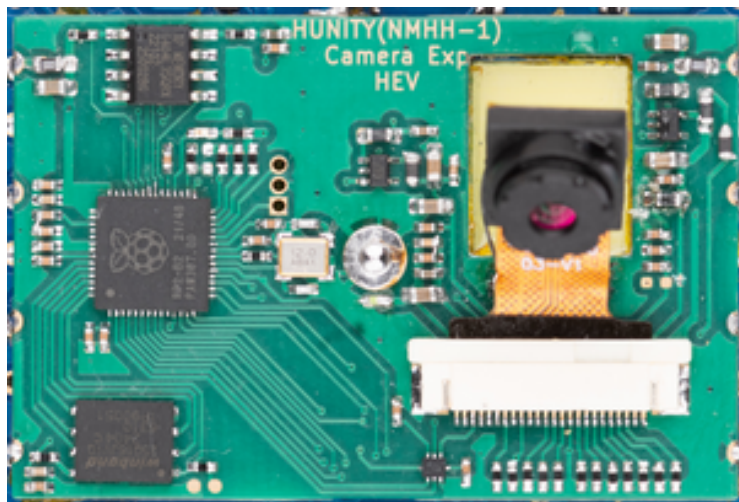
[Visit SZESAT Website](#) ↗



Experiments: Solar Cells



Experiments: Selfie camera



Hunity



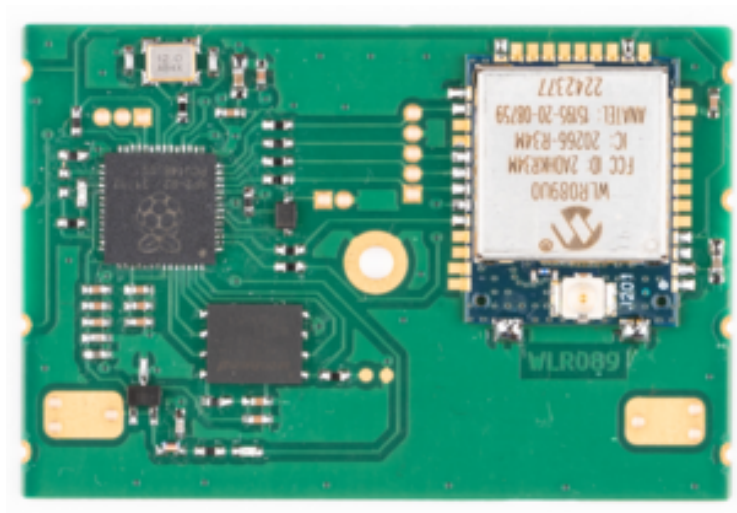
Moon



Earth



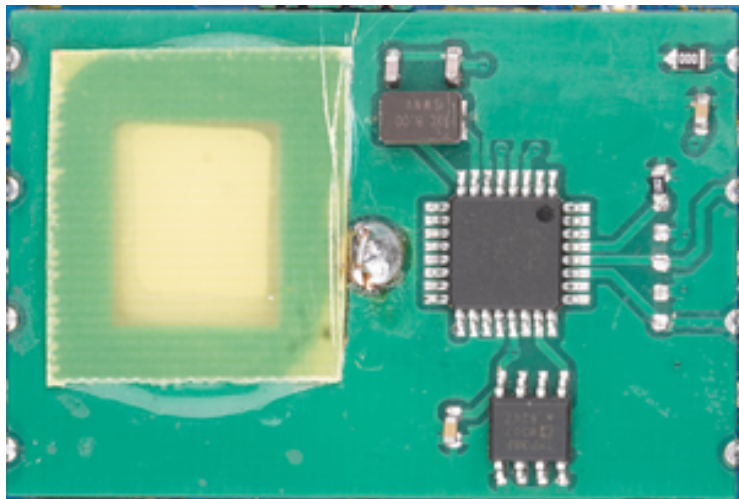
CanSat WLR COM module + Resonant Radar Reflector



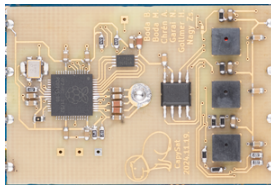
SpASIC



Experiment from Serbia



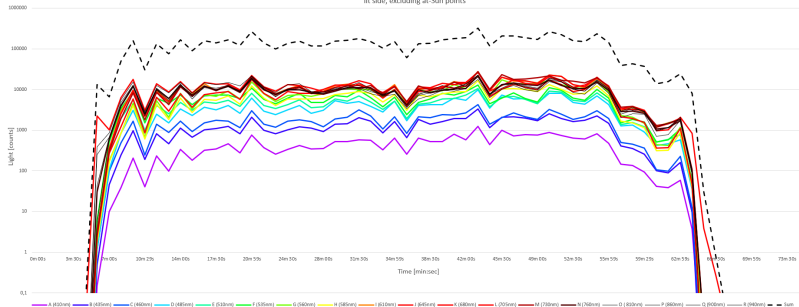
CanSat 2024: CappySat



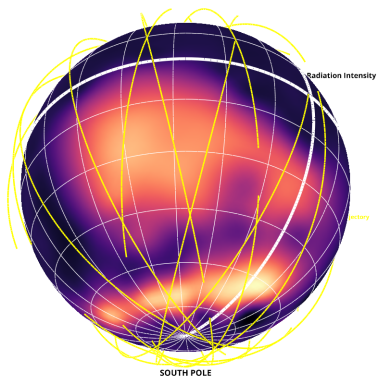
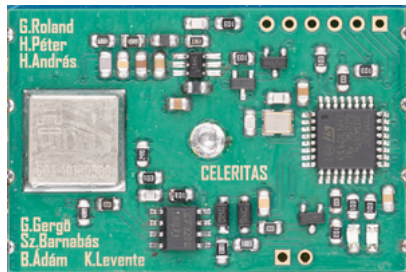
Light at given time during orbit

average from 18 passes

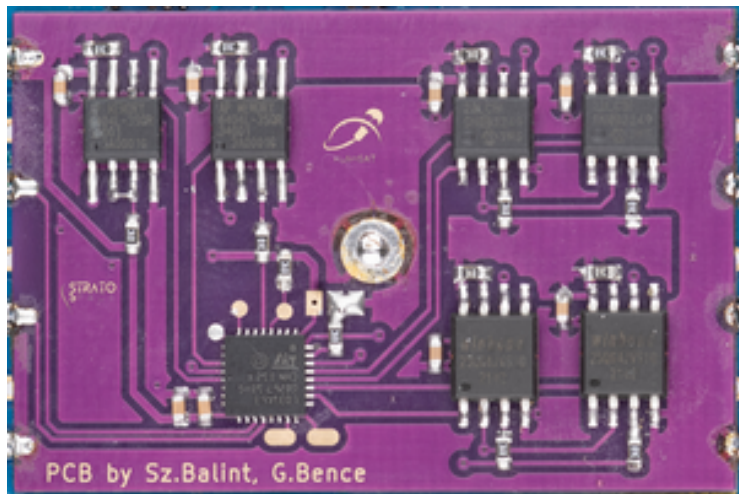
lit side, excluding at-Sun points



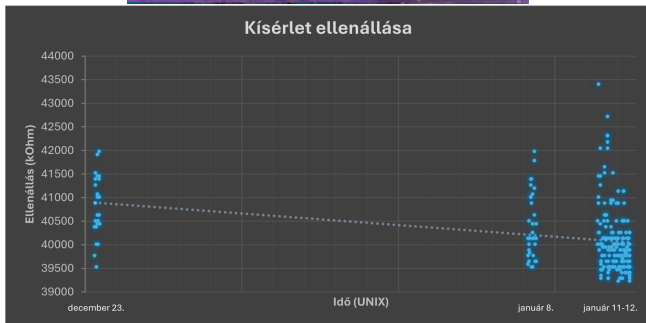
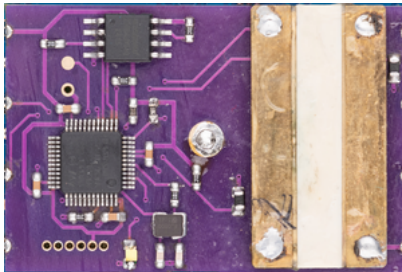
CanSat 2024: Celeritas



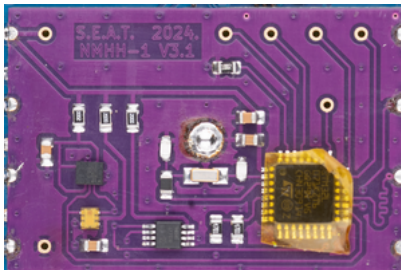
CanSat 2024: Kulinsat



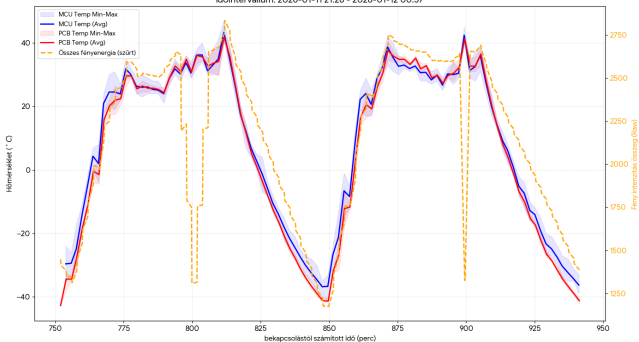
CanSat 2024: Onionsat



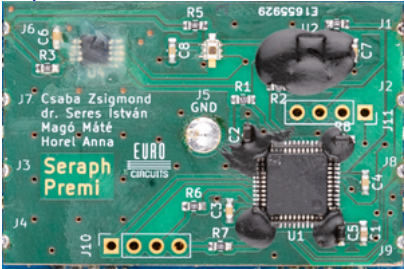
CanSat 2024: S.E.A.T



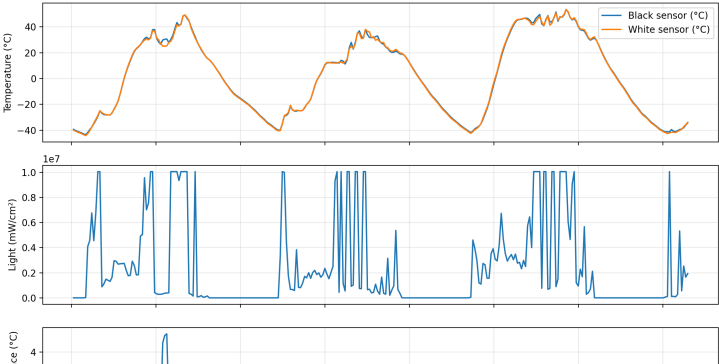
HUNTY - SEAT panel hőmérséklet és fényenergia (Szegmens 2)
Időintervallum: 2026-01-11 21:28 - 2026-01-12 00:37



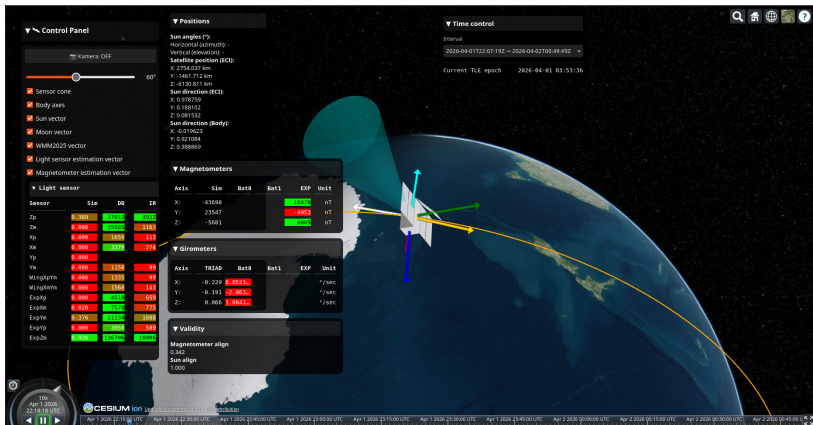
CanSat 2024: Seraph



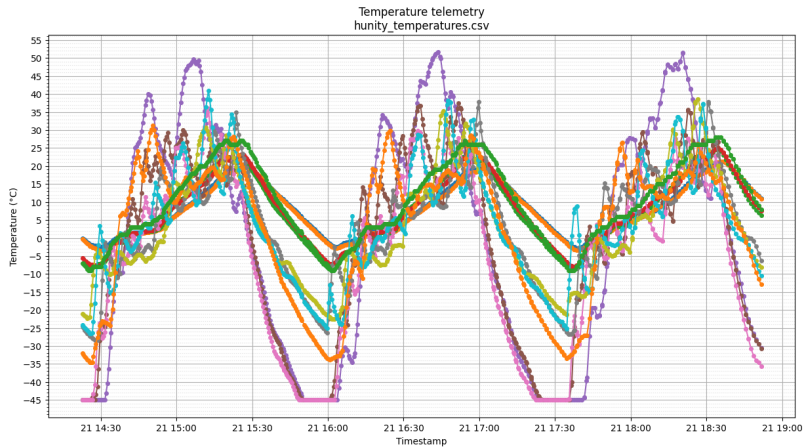
Hunty Seraph data — 20251223.csv



Hunity (NMHH-1) Sensor Calibration



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

Hírek

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Galéria

Műholdak

Amatőrök

Támogatók

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, irányhatóság, 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



parabola3m 2025-11-14 14:57:14



parabola4m5 2025-11-14 14:57:14

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.

1 2 3 4

BME - GND - Chromium

levi@levi: ~/mog1pr...

Képek

14:57

Hunity (NMHH-1) Ground Station 4

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

gnd.bme.hu/hunity

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

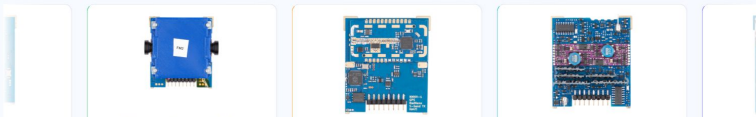
HUNITY Satellite

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

Explore Subsystems → Contact Us →

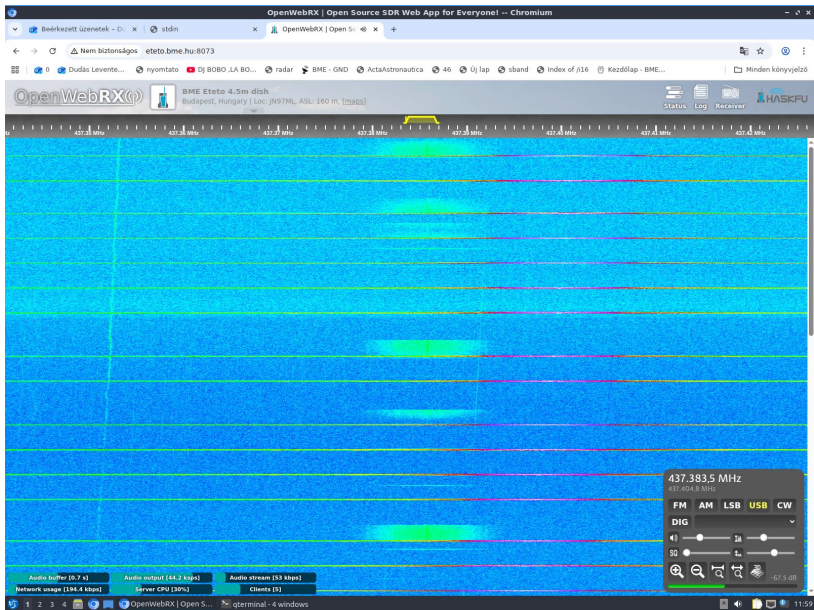
Cutting-Edge Satellite Technology

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

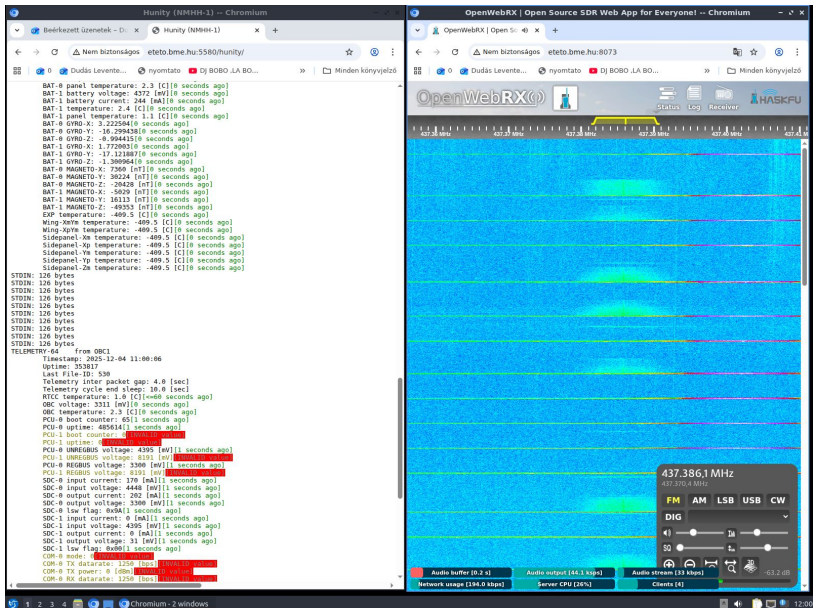


1 2 3 4 NMHH-1 / HUNITY Sat... levi@levi: ~/smog1pr... Képek 14:54

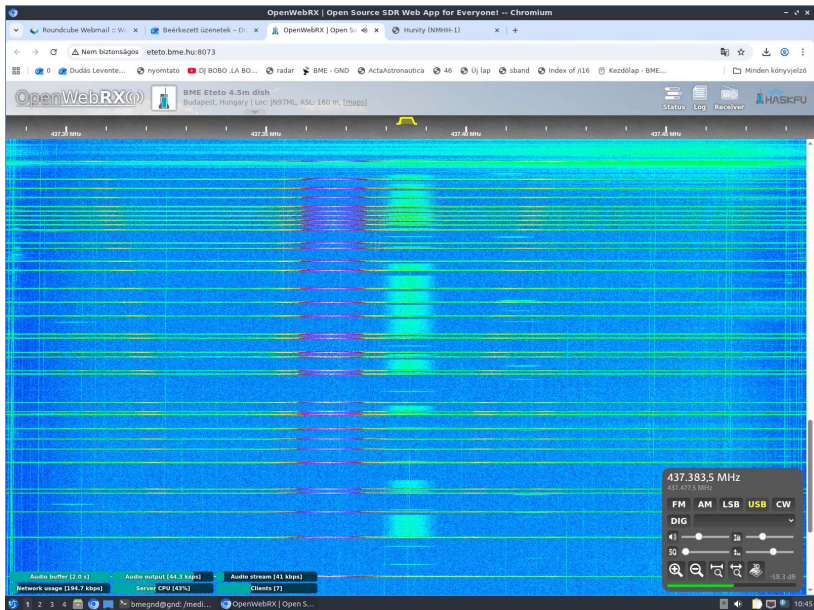
Hunity (NMHH-1) Operation 1



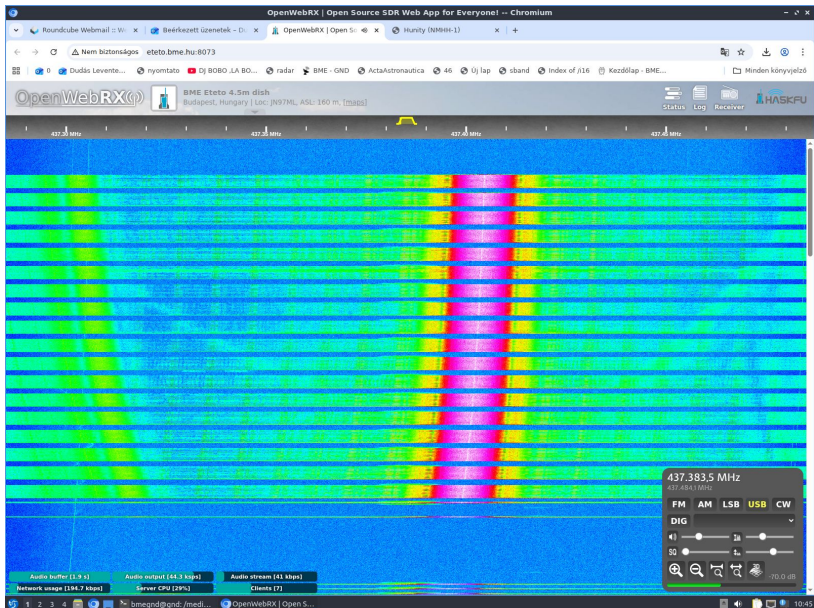
Hunity (NMHH-1) Operation 2



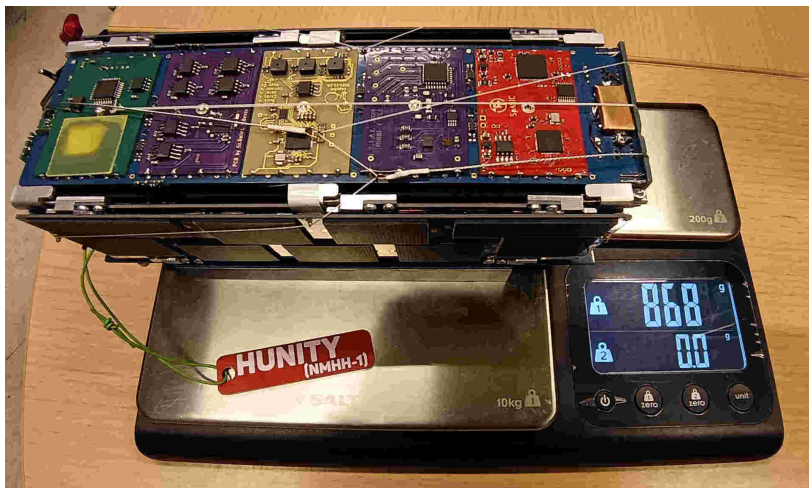
Hunity (NMHH-1) Operation 3



Hunity (NMHH-1) Operation 4



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

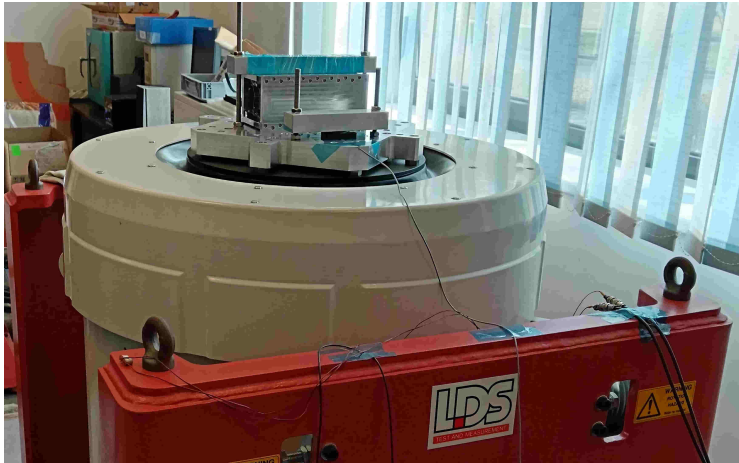


Falcon-9 Transporter-15 2025-11-19 18:18 UTC

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

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

Environmental Tests 1 - BHE



Environmental Tests 2 - BHE

