

29 Aug 2025

New Guy says hi



9V1JX

NUSHSat-1

Weather Station??

NUSHSat-1



Launch

NUSHSat-1 launched onboard a SpaceX Falcon 9 as part of the Transporter-13 Mission

A successful launch on 15 March 2025 inserted the spacecraft into a sun-synchronous orbit at 510km

Background

NUSHSat-1 is a student-led project from NUS High School of Math & Science, sponsored by Temasek Foundation

It is the first satellite in Singapore made by High School students

Its hardware is largely custom and student-designed



Satnogs Watch APP 18/08/2025, 18:21

Observation ID: 12201788

2025-08-18T03:57:22Z

vBatt: 8299

temp: -10

temp: -8

temp: -11

temp: -10

mode: 128

SatNOGS

Within hours of the launch, amateurs internationally had gotten NUSHSat's telemetry

SatNOGS provides valuable updates to the spacecraft's health and status even now

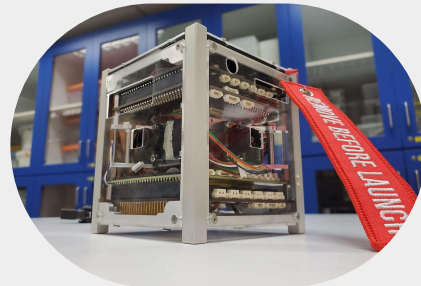
Special thanks 9V1KG

Technical

NUSHSat-1 is a 1U CubeSat carrying an imaging payload

Nominal Resolution: 640x480 (limited by link budget)

Imaging subsystem capable of 2MP capture, possible enabling via OTA update

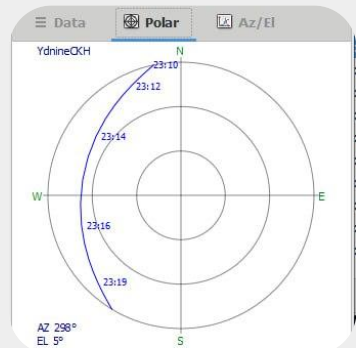


Some space imagery



Amateur involvement

Get your reception card by emailing nushsat_qls@outlook.com



Low Earth Orbit • Outer Space

NUSHSat-1

Launched on Transporter-13 mission, 15 March 2025

To: **BG7XTQ**

Confirming your reception of the signal from NUSHSat-1 at: **15:20 UTC** on: **13 May 2025**

☒ 436.200MHz Beacon
☐ 436.200MHz Image Data

NUSHSat-1 is an earth-imaging 1U CubeSat by NUS High School of Math and Science. It is the first satellite launched by a Singaporean high school. Your reception helps us stay updated on its status and receive its downlink data more completely. Thank you!

NUS HIGH SCHOOL
of Math & Science

Experiment • Explore • Excel

A grid of satellite images showing various landscapes and urban areas, likely captured by the NUSHSat-1 satellite.

KC4LE 2m/70cm Ope,
J-Pole

2650 - 9V1KG

3098 - N1JFU

766 - Dunchurch

2459 - EA3GKP Taicho-Tenerife

1712 - sat-cnt

1710 - EU1AEM

3056 - 2E0sud-pi1

3 - KARS - 9K2RA

Proposed UHF Voice weather station

The station is planned to transmit into 9V1RMP

1. Every half hour, 10s before the half hour, listen for 10s
2. If quiet, read weather report over synthesized voice
 - a. Callsign
 - b. Serial number
 - c. Date & Time
 - d. Temperature & Humidity
 - e. Rain level
 - f. Wind speed
 - g. Lightning strikes detected in past 30 mins
 - h. Average sun intensity over past 30 mins
 - i. goto 1
3. For 5 mins, wait for 10s of quietness
 - a. If yes, goto 2
4. goto 1



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Contact

Ham **radio** is a
contact sport.

