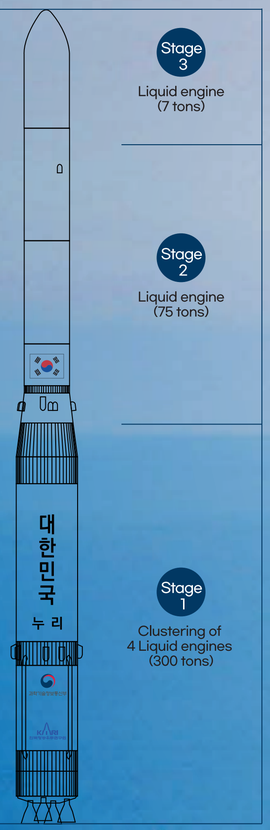
3rd Launch of NURI

Once again to space, the journey of Nuri Continues

Nuri's third launch is the first attempt to load and launch
a commercial-grad satellite with the rocket, By additional repeated flights,
Nuri will boost performance and enhace reliability.
Nuri, Korea's space launch rocket will be a cornerstone
for the future space economy era.

composition



specification

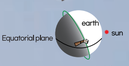
- Payload 1,900kg
- Weight 200Ton
- Length 47.2m
- Max.Diameter 3.5m

Payloads

NEXTSAT-2

Developer : KAIST SaTRec

Mission : Earth observation by SAR(Synthetic-aperture radar), Observation of cosmic radiation in near-Earth orbit, Verification of core technologies in space
Mission life : 2 years
Weight : 179.9kg



NEXTSAT-2 will orbit on the dawn-dusk orbit, one of the Sun-synchronous orbits. Satellites can receive sunlight continuously in the dawn-dusk orbit. Therefore, NEXTSAT-2 can continuously charge its electrical power on this orbit because the Synthetic Aperture Radar(SAR) on NEXTSAT-2 requires a large amount of electric power during Earth observation.

*Sun-synchronous orbit : A Sun-synchronous orbit is an orbit that maintains a consistent angle with respect to the Sun, allowing a satellite to pass over a Particular region at the same local time consistently. This orbit is advantageous for Earth observation due to its ability to provide favorable conditions for consistent coverage.

JAC

Developer : Justek

Mission : to acquire in-space Verification images from the optical payload to verify the attitude control system in space
Mission life : 6 months
Altitude : 550 km
Weight : 4 kg

Lumir-T1

Developer : Lumir

Mission : to demonstrate cosmic radiation measurement and error correction features in space
Mission life : 6 months
Altitude : 550 km
Weight : 10 kg

KSAT3U

Developer : Cairo Space

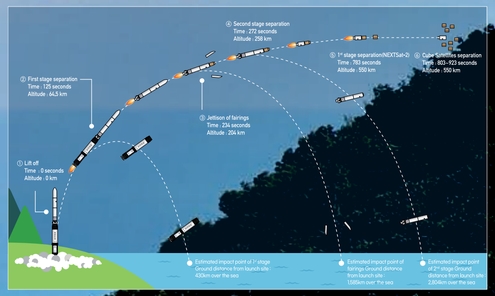
Mission : to observe weather phenomenon using polarization specificity and to demonstrate space debris removal technology
Mission life : 1 years
Altitude : 550 km
Weight : 6 kg

SNIPE

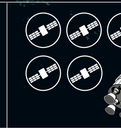
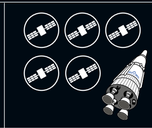
Developer : Korea Astronomy and Space Science Institute(KASI)

Mission : to observe the spatio-temporal changes in the microstructure of plasma in the near-Earth environment
Mission life : 1 years
Altitude : 550 km
Weight : 10 kg each

Flight Sequence of Nuri third launch



Plan for repeated flights after 3rd launch

	2025(4th)	2026(5th)	2027(6th)
			
Main payload	CAS(Compact Advanced Satellite) 500-3	Five microsatellites	Five microsatellites

*sub satellites will be determined later

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