

GSAT-31 Launch Kit



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Glimpses

GSAT-31

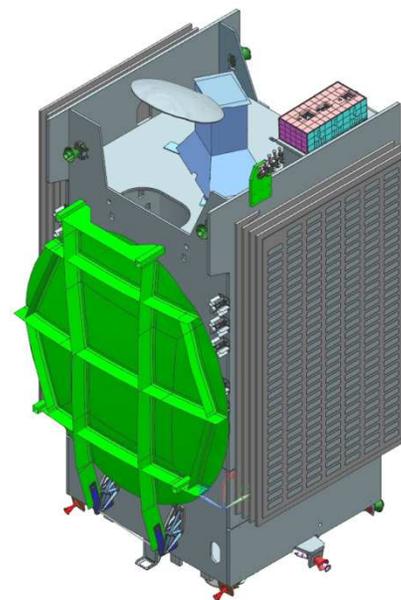
GSAT-31 is the 40th communication satellite of India. This satellite is configured on ISRO's enhanced I-2K Bus, utilising the maximum bus capabilities of this type. This satellite will augment the Ku-band transponder capacity in Geostationary Orbit.

GSAT-31 derives its heritage from ISRO's earlier INSAT/GSAT satellite series. This is a versatile satellite with a unique configuration providing flexible frequency segment and flexible coverage. The satellite provides Indian mainland and island coverage.

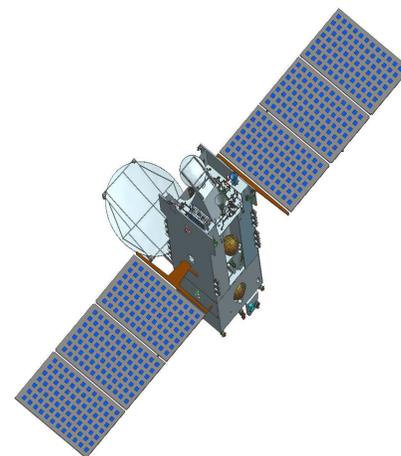
GSAT-31 will provide continuity to operational services on some of the in-orbit satellites. The satellite will be launched from Kourou, French Guiana by Ariane-5 launch vehicle.

SALIENT FEATURES

- Lift off Mass : 2535 kg
- Spacecraft Power : 4.7 kW
- Payload : Ku-band transponders
- Coverage Area : Indian Mainland and Island
- Mission Life : Around 15 Years



Stowed Configuration of GSAT-31

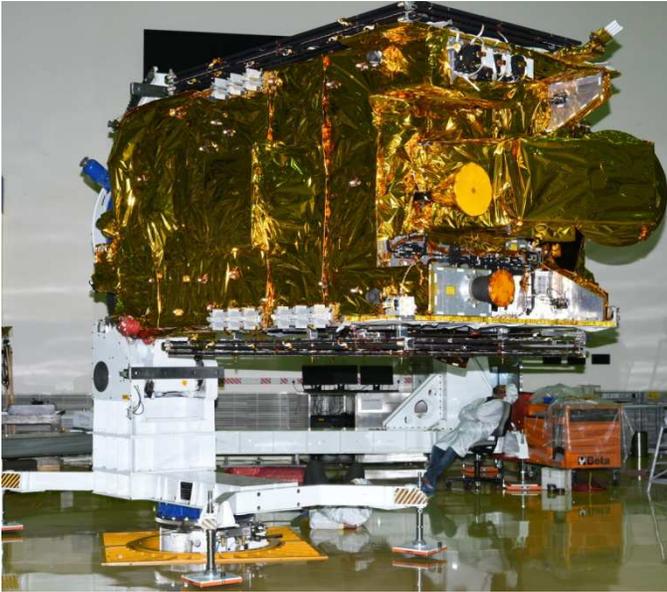


Deployed Configuration of GSAT – 31

APPLICATIONS

- GSAT-31 will be used for supporting VSAT networks, Television uplinks, Digital Satellite News Gathering (DSNG), DTH-television services, cellular backhaul connectivity and many such applications.
- It also provides a wide beam coverage to facilitate communication over large oceanic region comprising large parts of Arabian Sea, Bay of Bengal and Indian Ocean using a wide band transponder.
- Two Ku-band beacon downlink signals are transmitted for ground tracking purpose.

GLIMPSES



Centre of Gravity Test of GSAT-31



GSAT-31 Antenna Reflector Deployment test



GSAT-31 during Vibration Test



Loading of GSAT-31 into Thermovacuum chamber