

GSLV-F08 / GSAT-6A Mission

29 March, 2018

THE MISSION

GSLV-F08 carrying on-board the GSAT-6A Satellite lifted-off from the Satish Dhawan Space Centre (SDSC) SHAR, Sriharikota at 04:56 PM (IST) on March 29, 2018. About 17.5 minutes after lift-off, GSLV-F08 placed GSAT-6A into a Geostationary Transfer Orbit. GSAT-6A is orbiting the Earth with a perigee of 169.4 km and an apogee of 36,692.5 km with an orbital inclination of 20.64° to the Equator.

GSAT-6A is a high power communication satellite to provide mobile communication services through multibeam coverage.



G S L V - F 0 8

THE LAUNCH VEHICLE

This 12th flight of GSLV was improvised by the launch vehicle in terms of – Induction of High Thrust Vikas Engine (HTVE) in GS2 and Induction of Electromechanical Actuation (EMA) system in place of Electro-hydraulic Actuation (EHA) system in GS2. It was the 6th flight with indigenous Cryogenic Upper Stage.

SPECIFICATIONS

Height	49.1 m
Lift-Off Mass	415.6 t
No of Stages	3
Payloads	GSAT-6A
Orbit Height	36,000 km
Inclination (deg)	20.63°
Launch Azimuth	106°
Apogee	36,692.5 km
Perigee	169.4 km
Launch Pad	Second Launch Pad (SDSC, SHAR)



GSAT-6A

THE SATELLITE

GSAT-6A, similar to GSAT-6 is a high power S-band communication satellite configured around I-2K bus. The satellite will provide a platform for developing technologies such as demonstration of 6 m S-band Unfurlable Antenna, handheld ground terminals and network management techniques that could be useful in satellite based mobile communication applications.

SPECIFICATIONS

Weight	2065 kg
Power	3119 W
Type of Satellite	Communication
Payloads	<ul style="list-style-type: none">• S-band in five spot beams• C-band in one beam• 6 m diameter Unfurlable Antenna for User Communication Link• 0.8 m Fixed Antenna for Hub Communication Link
Mission Life	10 Years

