

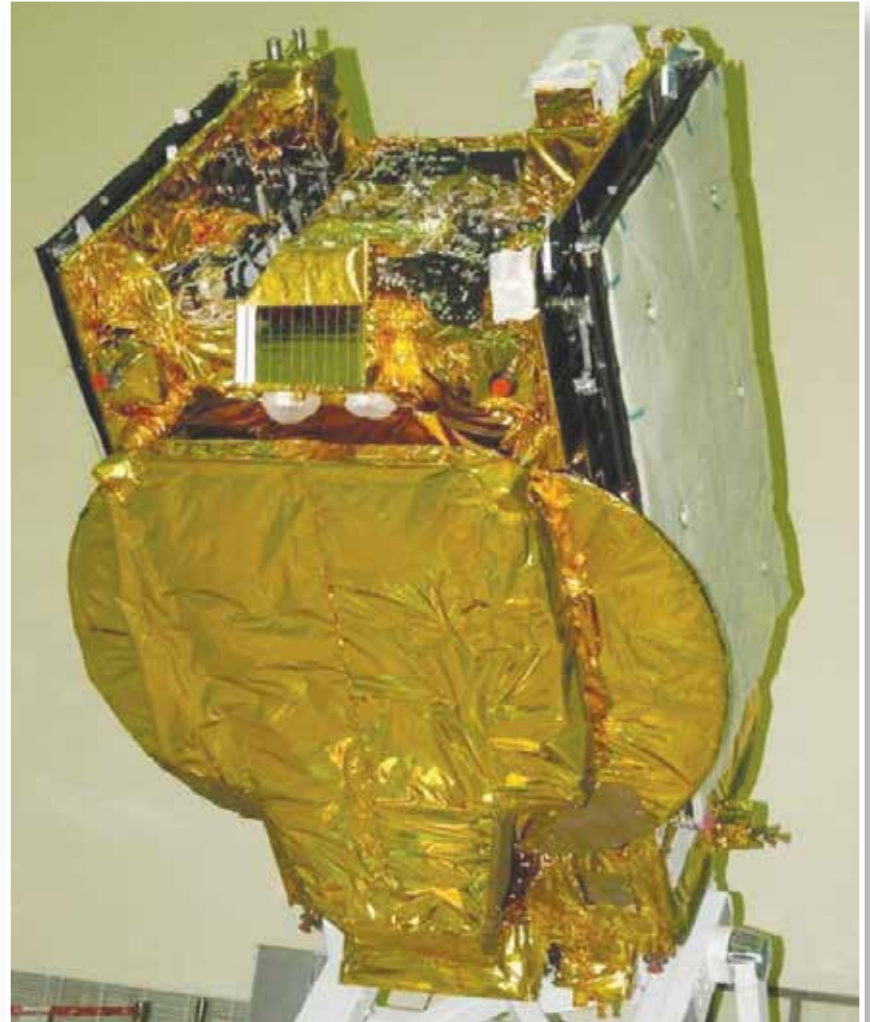
HYLAS (Highly Adaptable Satellite)

Foreign Customer Satellite

27 November, 2010

THE MISSION

India's second foreign satellite HYLAS (Highly Adaptable Satellite) on-board the Ariane-5 lifted-off from Kourou, French Guiana on November 27, 2010. The HYLAS satellite is jointly built by ISRO/Antrix and EADS/Astrium of Europe for Avanti Communications of U.K. and was initially injected into an elliptical Geosynchronous Transfer Orbit (GTO) with a perigee of 250 km, apogee of 35,906 km and inclination of 1.99°.



HYLAS

THE SATELLITE

HYLAS carries 2 Ku-band and 8 Ka-band transponders. The bus platform is based on stretched I-2K bus structure has a power handling capability of around 3.2 kW. The I-2K satellite bus and mainframe elements were developed by ISAC and the advanced communications payload was developed by prime contractor EADS Astrium. At the orbital location of 33.5° West the satellite is being used to provide broadband Internet access and to distribute and broadcast High Definition Television (HDTV) that will cover 22 countries in Western and Central Europe.

SPECIFICATIONS

Weight	2542 kg
Power	Solar Array: 3200 W Batteries: Li-Ion (64 Ah)
Stabilization	3-axis body stabilized using Momentum / Reaction Wheels, Magnetic Torquers, Sensors and Thrusters
Type of Satellite	Communication
Payloads	<ul style="list-style-type: none"> • 2 Ku-band Transponders • 8 Ka-band Transponders
Mission Life	15 Years