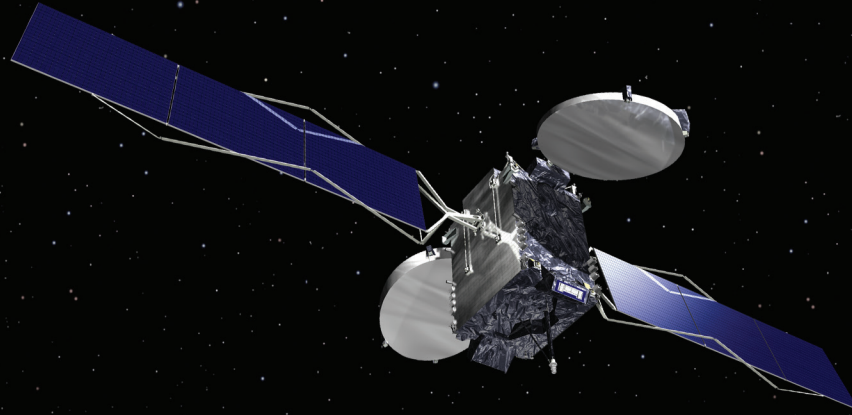




Horizons-2

Ku-band Commercial Communications Satellite



Mission Description

Orbital manufactured the Horizons-2 satellite for Horizons Satellite Holdings, LLC, a joint venture between Intelsat of Luxembourg and SKY Perfect JSAT Corporation of Japan. The spacecraft was launched into an Intelsat-licensed orbital slot at 74 degrees West Longitude to help meet the growing demand for Ku-band satellite communications services in North America. The satellite features both a Continental United States (CONUS) beam and an East beam which extends the spacecraft's coverage to include the Caribbean and parts of Canada.

The GEOStar™ Advantage

Orbital's highly successful Geosynchronous Earth Orbit (GEO) communications satellites are based on the company's GEOStar spacecraft platform, which is able to accommodate all types of commercial communications payloads and is compatible with all major commercial launchers. The company's GEOStar product line includes the GEOStar-2 design, which is optimized for smaller satellite missions that can support up to 5.0 kilowatts of payload power. Orbital has also developed the higher-power GEOStar-3 spacecraft design, delivering the next increment of payload power for applications between 5.0 and 8.0 kilowatts, allowing Orbital to offer its innovative and reliable satellite design to the medium-class of communications satellites.

FACTS AT A GLANCE

Coverage:

United States and parts of the Caribbean and Canada



Mission:

Ku-band communications

Customer:

Horizons Satellite Holdings, LLC



Horizons-2 in Orbital's Dulles, Virginia satellite manufacturing facility

Horizons-2

Specifications

Spacecraft

Launch Mass:	2,350 kg (5,181 lb.)
Solar Arrays:	Three panels per array, UTJ Gallium Arsenide cells
Stabilization:	3-axis stabilized; zero momentum system
Propulsion:	Liquid bi-propellant transfer orbit system; monopropellant (hydrazine) on-orbit system
Batteries:	Two >3850 W-Hr capacity Li-Ion batteries
Mission Life:	15 years
Orbit:	74° West Longitude

Payload

Ku-band

Repeater:	16 active transponders with 22-for-16 redundant TWTAs; 4 active transponders with 6-for-4 redundant TWTAs
Antenna:	Two 2.3 m dual grid shaped reflectors

Launch

Launch Vehicle:	Ariane 5
Site:	Kourou, French Guiana
Date:	December 21, 2007

Mission Partners

Horizons Satellite Holdings, LLC

A joint venture between Intelsat and SKY Perfect JSAT

Orbital Sciences Corporation

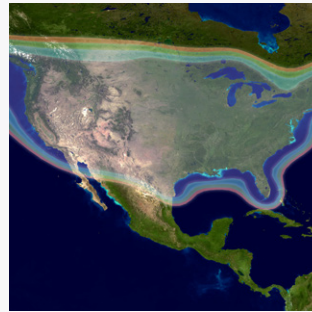
Prime contractor for Galaxy 12, 14 and 15; Intelsat 11, 15, 16, 18, 23 and 28; and Horizons-2 for an Intelsat/SKY Perfect JSAT joint venture

Arianespace

Launch provider

Coverage Contour Maps

CONUS Coverage Area



East Coast Coverage Area



Orbital Sciences Corporation

45101 Warp Drive • Dulles, Virginia 20166 • www.orbital.com

©2014 Orbital Sciences Corporation FS004_05_2998