

Thaicom 8

Ku-band Commercial Communications Satellite



Mission Description

Orbital ATK was selected by Thaicom PLC. to build their eighth satellite, Thaicom 8. The Thaicom 8 satellite design is based on Orbital ATK's highly successful, flight-proven, GEOStar-2™ satellite platform, and will be manufactured and tested at Orbital ATK's state-of-the-art manufacturing facility in Dulles, Virginia.

Thaicom 8 will be located at 78.5 degrees East Longitude and carry a Ku-band payload that will generate approximately 5 kilowatts of payload power. The Ku-band payload will be comprised of 24 active transponders providing services to Thailand, India and Africa.

The GEOStar™ Advantage

Orbital ATK'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 ATK 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 ATK to offer its innovative and reliable satellite design to the medium-class of communications satellites.

FACTS AT A GLANCE

Coverage:

Thailand, India and Africa



Mission:

Ku-band communications

Customer:

Thaicom PLC



Thaicom 8 is based on Orbital ATK's GEOStar-2 satellite platform, and will undergo integration and testing at Orbital ATK's Dulles, Virginia satellite manufacturing facility.

Thaicom 8

Specifications

Spacecraft

Launch Mass:	<3,200 kg
Solar Arrays:	Two 4-Panel Solar Wings with UTJ cells
Stabilization:	3-axis stabilized, using thrusters and reaction wheels; zero momentum biased
Propulsion:	Liquid bi-propellant transfer orbit system; monopropellant (hydrazine) on-orbit system
Batteries:	Li-Ion batteries
Mission Life:	≥15 years
Orbit:	78.5° East Longitude

Payload

Ku-band

Repeater:	24 active transponders
Antenna:	Three deployable single offset reflectors, 2.4 m, 2.6 m, and 2.5 m x 2.7 m

Launch

Launch Vehicle:	Falcon 9
Site:	Cape Canaveral, Florida
Date:	2016

Mission Partners

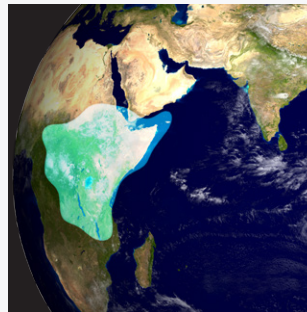
Thaicom PLC

Orbital ATK

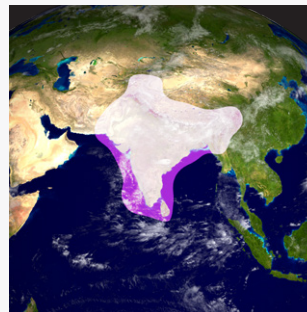
Design, integration and test of the Thaicom 8 Satellite

Coverage Contour Maps

Africa Coverage Contour



India Coverage Contour



Thailand Coverage Contour

