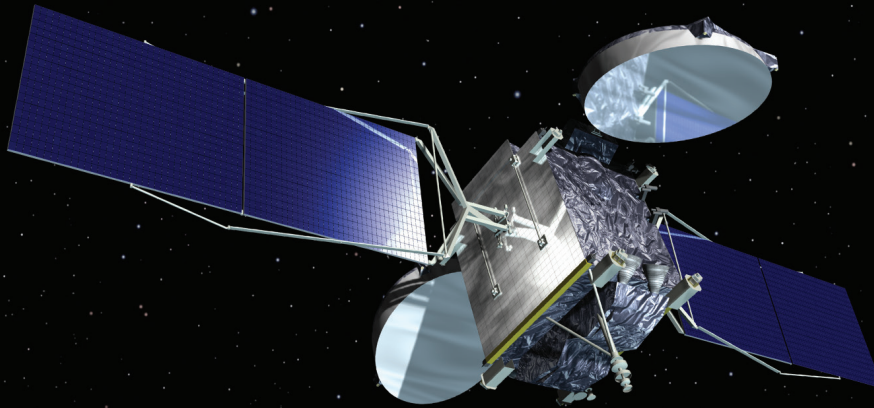


# TELKOM-2

C-band Commercial Communications Satellite

## FACT SHEET



### Mission Description

Orbital ATK built the TELKOM-2 C-band satellite for Indonesia's state-owned telecommunications company, PT Telekomunikasi Indonesia Tbk (Telkom). The contract included the satellite, a state-of-the-art ground station and turn-key on-orbit delivery. The satellite operates in geosynchronous orbit at 118 degrees East Longitude. TELKOM-2 replaced the on-orbit Palapa-B4 satellite allowing Telkom to expand its satellite communications coverage area into the southeast Asian region and the Indian subcontinent in addition to Indonesia.

### 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:**

Southeast Asia and Indian Subcontinent



**Mission:**

C-band communications

**Customer:**

Telkom

# TELKOM-2

## Specifications

### Spacecraft

Launch Mass:	1,930 kg (4,255 lb.)
Solar Arrays:	Two 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
Mission Life:	15 years
Orbit:	118° East Longitude

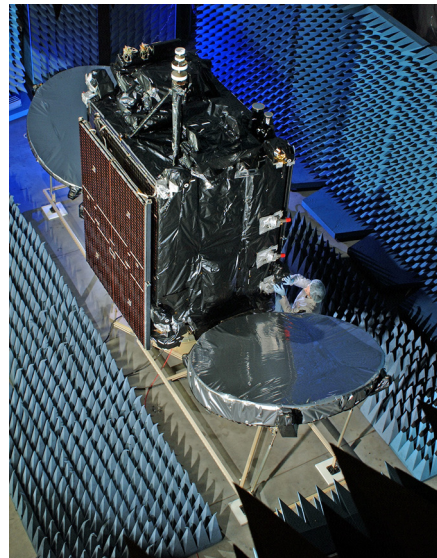
### Payload

#### C-band

Repeater:	Two groups of 15-for-12 linearized TWTAs
TWTA Power:	39 W RF at operating point
Antenna:	Two 2.0 m dual grid shaped-beam reflectors

### Launch

Launch Vehicle:	Ariane 5
Site:	Kourou, French Guiana
Date:	November 16, 2005



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

## Mission Partners

### PT Telekomunikasi Indonesia Tbk (Telkom)

The leading provider of local and long distance and mobile communications in Indonesia

### Orbital ATK

Prime contractor including spacecraft bus, payload and ground segment

### Arianespace

Launch provider



TELKOM-2 was launched aboard an Ariane 5 rocket.