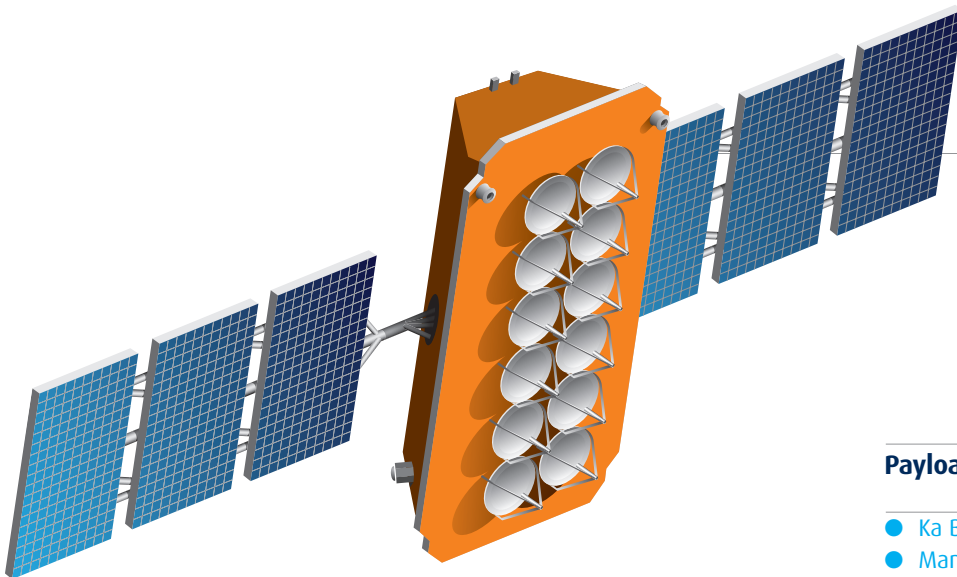


03b Networks Space Vehicle overview



Payload Module

- Ka Band
- Manufacturer: Thales Alenia Space
- 12 x 65 W TWTA
- 12 x Antennas: Steerable $\pm 26^\circ$
- Terminal/Teleport Cross Strapped
- 216 MHz transponder bandwidth

Service Module

Electrical Power:

- Triple Junction Solar Cells
- 100 A-h Lithium Ion Battery
- BOL: 1575W

Structure & Mechanism:

- Aluminum Tubular Frame
- Aluminum Honeycomb Panels
- Solar Array Release Mechanism

Telemetry & Command:

- Ka Band
- Nadir Earth Coverage
- Zenith Omni Coverage
- Command authentication

Propulsion:

- Hydrazine Blowdown
- 49.6 kg Max Required
- Capacity: 154 kg
- Eight 1N Thrusters

Orbit:

- Altitude: ~8063km
- Period: 288 minutes
- Inclination: <0.1 degrees

Attitude Control & Determination:

- Pointing Error < 0.6°
- Fine Sun Sensors
- Inertial Measurement Units
- Infra-red Earth Sensors
- Reaction Wheels
- Electro Torque Rods
- Thrusters – 1N
- GPS Receiver – Time and Position

Reliability:

- Heritage includes Globalstar 2

Our investors

