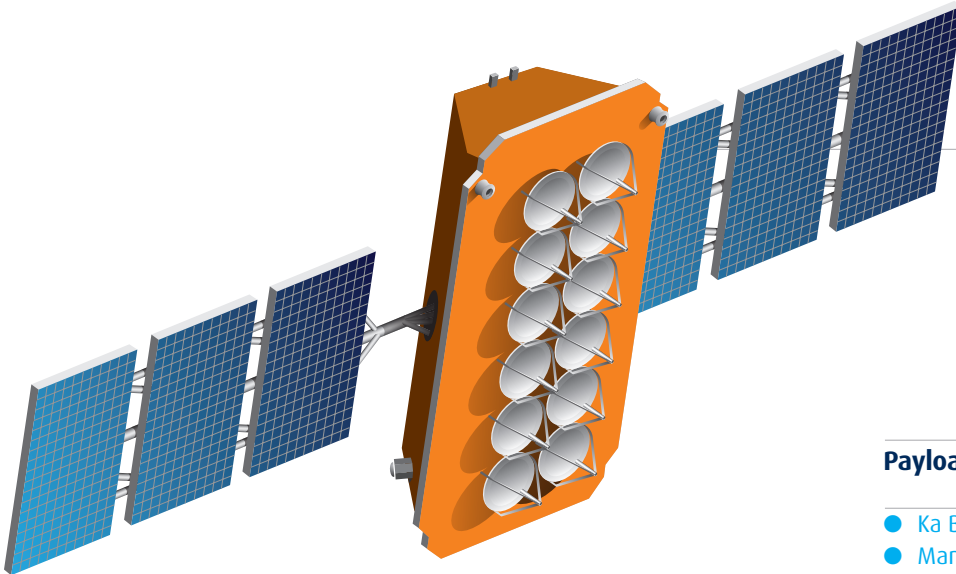


# 03b Networks Space Vehicle overview



## 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

### Telemetry & Command:

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

### Orbit:

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

### Reliability:

- Heritage includes Globalstar 2

### Structure & Mechanism:

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

### Propulsion:

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

### Attitude Control &

#### Determination:

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

## Our investors

