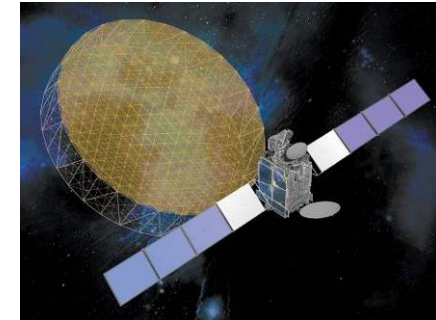
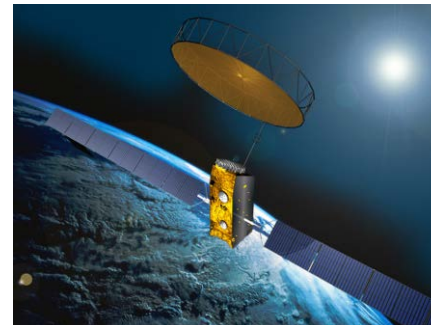
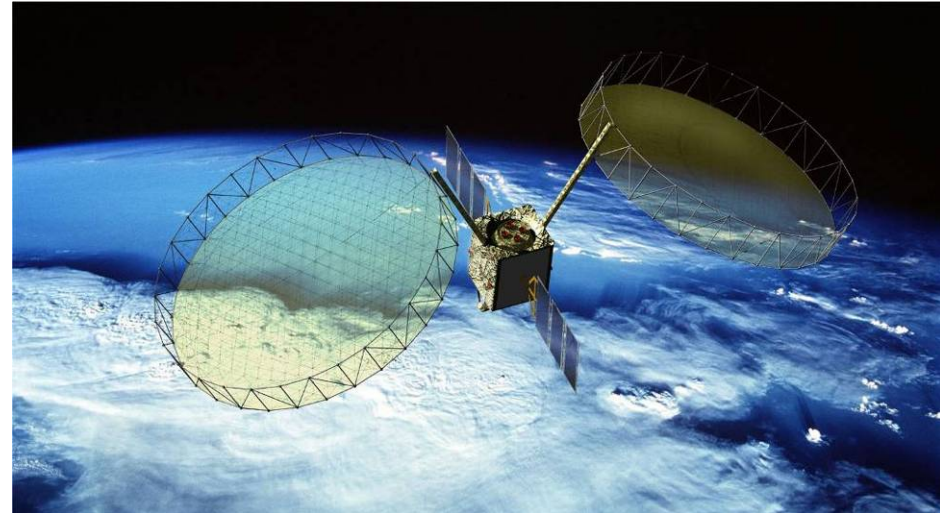


THE VALUE OF PERFORMANCE.  
**NORTHROP GRUMMAN**

# AM-1 AstroMesh

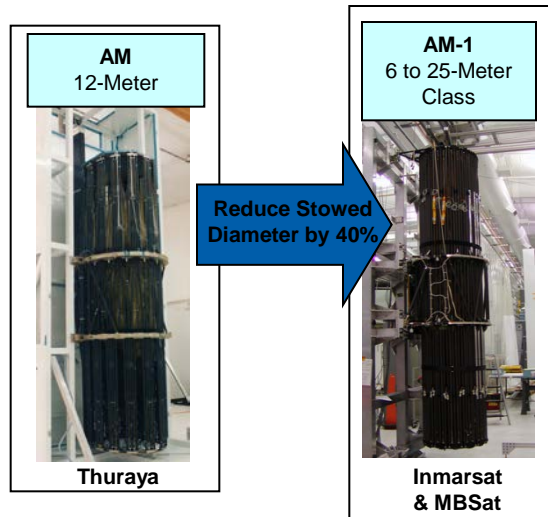
# AstroMesh Advantage

- Proven: 8 AstroMesh successfully deployed on-orbit
- Inherently **Reliable Robust** Deployment Kinematics
- Accurate Surface **Repeatability**
- **Efficient** Drum-Like Structure
- **High** Deployed **Stiffness**
- Exceptionally **Low mass**
- High **Thermal Stability**
- **Easily Scales**
- **ESD Compatible** Design & PIM Free
- High structural stiffness & RF **test in 1g** environment at all frequencies



***Most Reliable Reflector Technology Available***

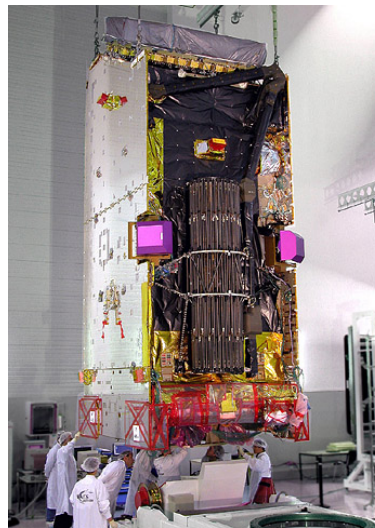
# AM-1 configuration



- Reduced Diameter versus 1<sup>st</sup> Generation AM
  - Stowed Diameter 60% of AM
  - Stows on Spacecraft Sidewall
- Scalable From 6 to 25-meter Aperture
- Extensive Flight Heritage
  - 9-m Aperture Inmarsat 4
  - 12-m Aperture MBSat
  - 11-m Aperture Alphasat



MBSat



Inmarsat 4



Alphasat

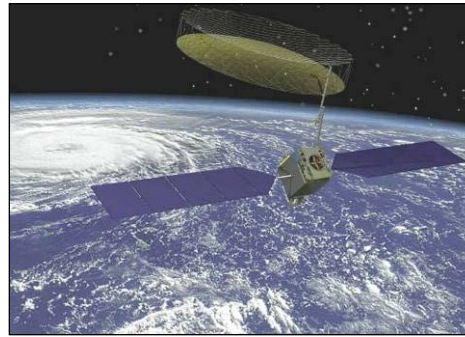
## ■ 3 Unique Applications for 3 Different Spacecraft Platforms



### **INMARSAT 4:**

- Three each 9-meter reflectors
- Astrium Eurostar 3000 Bus
- PIM Sensitive Application

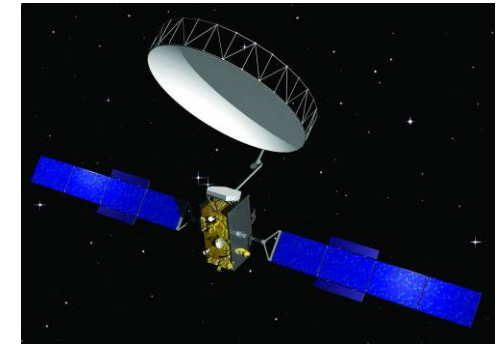
**Three On-orbit**



### **MBSat:**

- One 12-meter reflector
- SS/L 1300 Bus
- Direct Broadcast

**On-orbit**



### **Alphasat:**

- One 11-meter reflector
- Astrium/Thales AlphaBus
- PIM Sensitive Application

**On-Orbit**

**100% On-Orbit Deployment Success  
No Failures, No Incidents, No Anomalies**

***THE VALUE OF PERFORMANCE.***

***NORTHROP GRUMMAN***

