

PERIMETER TRUSS REFLECTOR (PTR)

www.tendeg.com

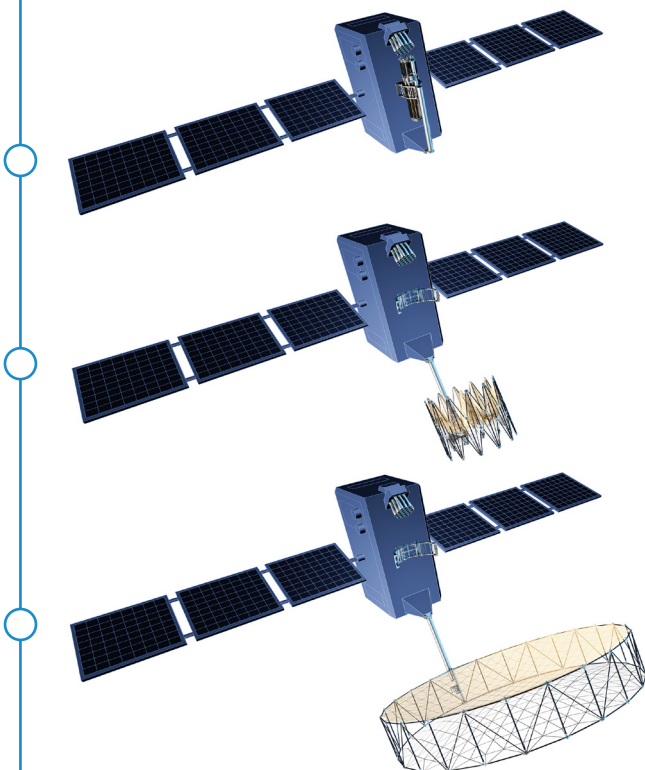


KEY INFORMATION

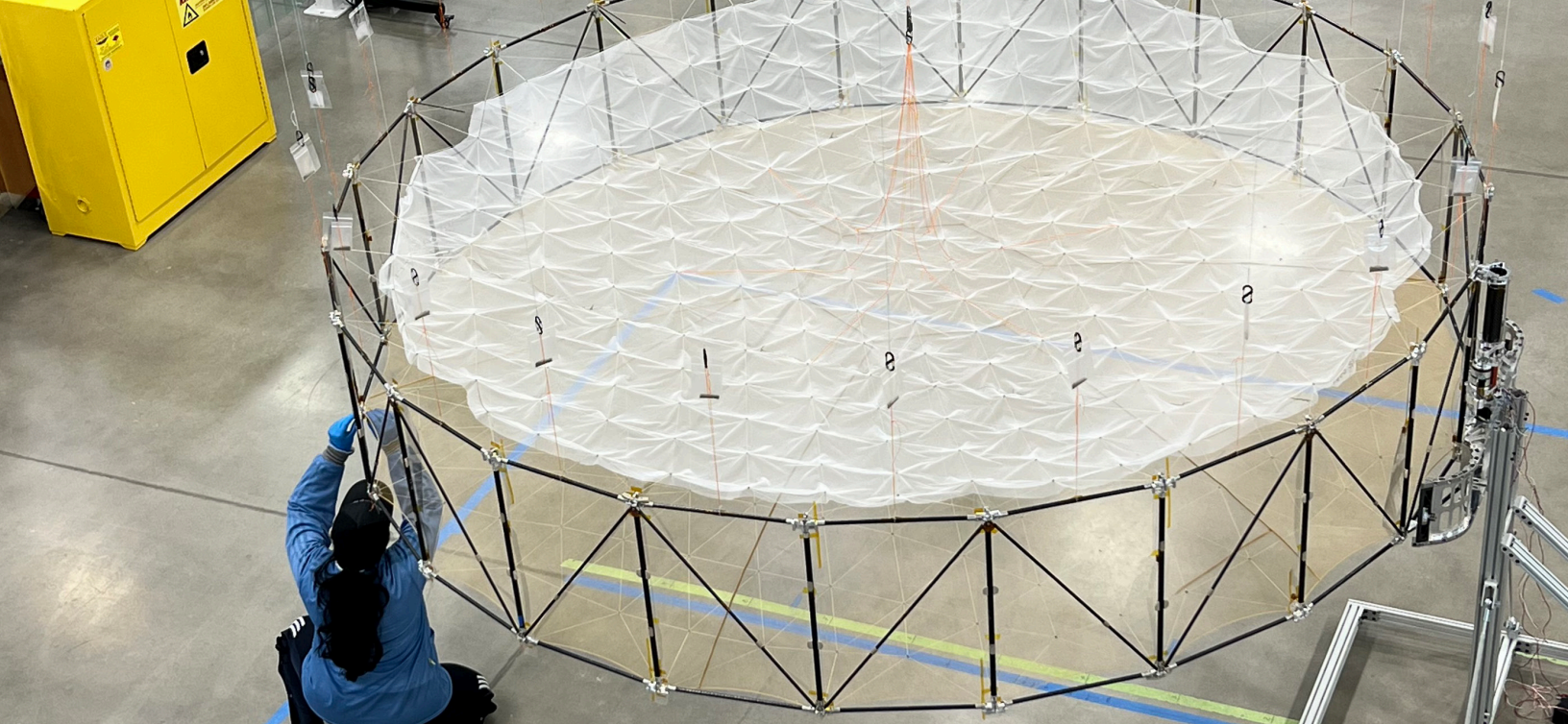
- Highly scalable, parabolic perimeter truss reflectors
- Supports HF to Q/V-bands, reflector sizes of 2 to +20m in diameter
- Architecture enables high stiffness apertures
 - 3m reflectors have a first mode stiffness of >2.5Hz
- Supports subreflector, can support monopulse or LPDA feeds
- Can be paired with a deployable offset boom and deployment control electronics

System has reached TRL-8

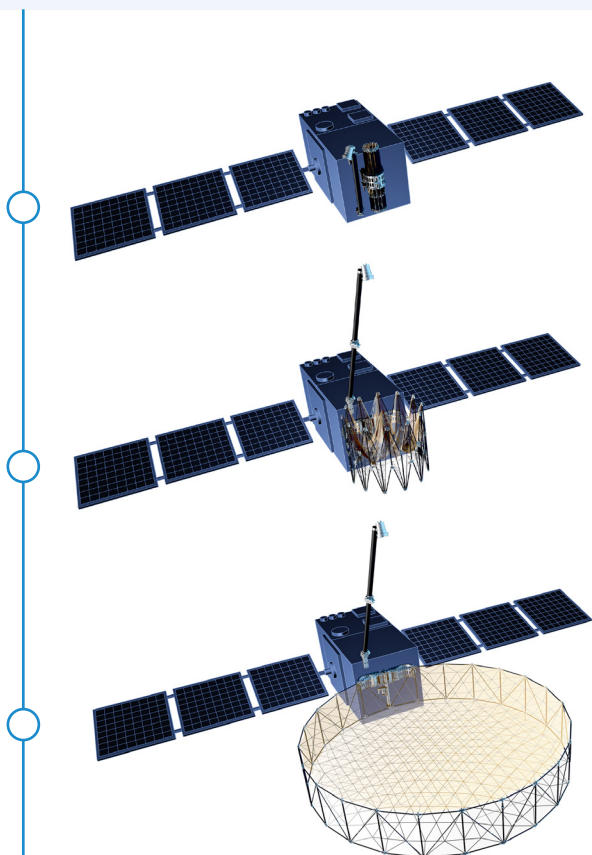
- Qualified to GEVS and rideshare environmental loads
- First Perimeter Truss Reflector flight unit delivered in 2024
- Flight orders include 3m, 4m and 5m reflectors supporting C, X and Ka bands in LEO and GEO
- Applications include: Communications, SAR and Sensing Missions, among others



● Boom Mounted Deployment



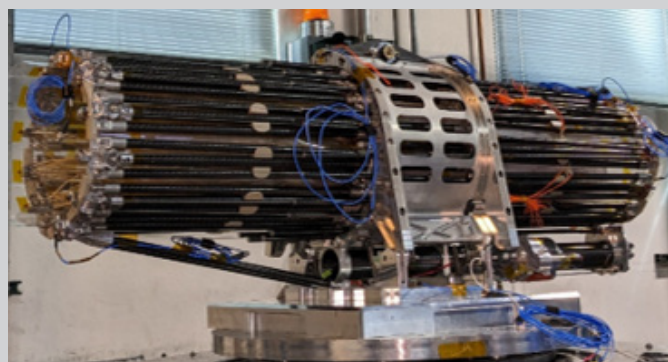
Tendeg has multiple flight programs from L to Ka-band



● Body Mounted Deployment

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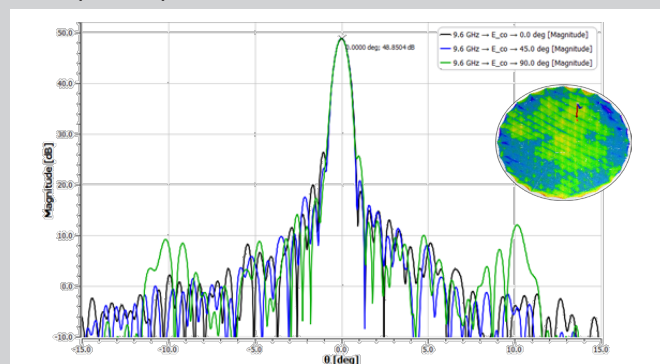
TRL-8 Env Test Campaign



TRL-8 hardware subjected to qualification-level vibration & thermal testing, and over 30 full deployment cycles with no measurable performance degradation

Surface Scan and RF Performance

Example RF performance



Post-vibration RF results show minimal to no directivity and performance loss relative to pre-vibe.

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