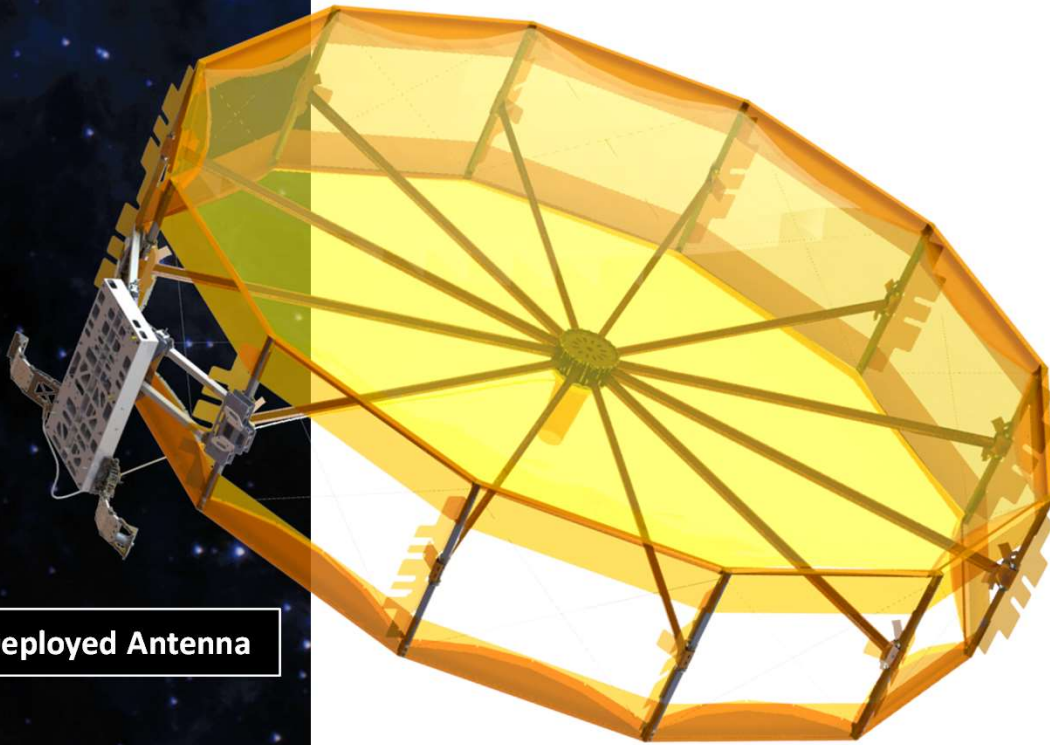
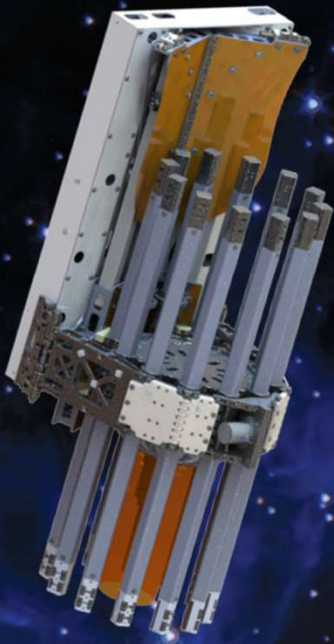


# KaTENna

Deployable High Gain Antenna for Small Satellites



Deployed Antenna



Stowed Antenna

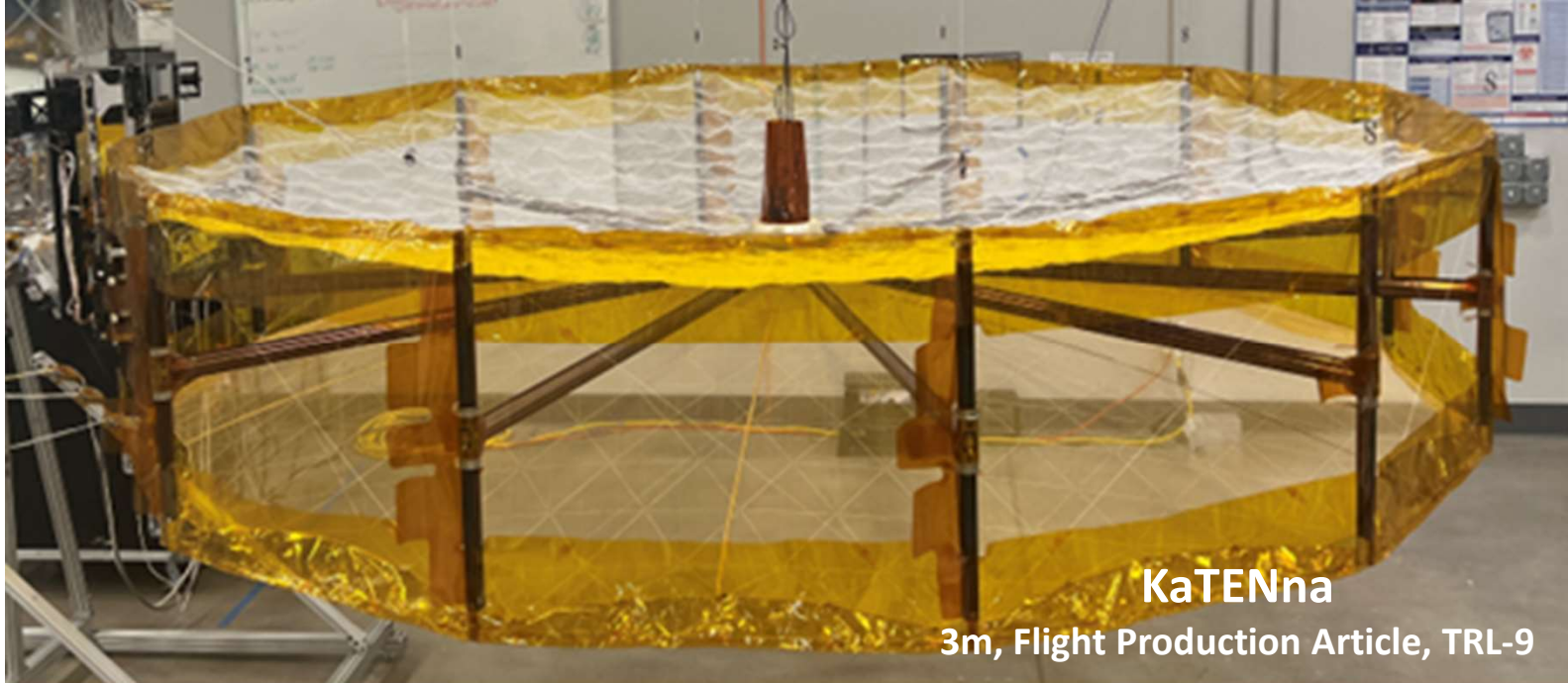
## Key Features

- **TRL 9 with >20 units sold; 9 apertures performing on-orbit**
  - Currently delivering 1 flight unit/month throughout 2024
  - Delivered 1.5m S-band communications flight unit
  - Awarded 1.6m Ka-band radar contract for NASA INCUS Mission
- **Performance**
  - Reflector sizes scale from 1-3m, offset fed
  - Designed for ESPA class bus
  - Measured antenna directivity efficiencies of 75% at X-band, 68% at Ka-band
  - > 1 Hz deployed first mode for a 3m aperture
- **Applications**
  - RF Communications
  - Active radar (weather, SAR)
  - Radiometer (ocean surface winds)
- **US Patents 10,256,530; 10,587,035**

Tendeg LLC  
1772 Prairie Way Unit A  
Louisville, CO 80027  
[www.tendeg.com](http://www.tendeg.com)

# TENDEG

Deployable Antennas and Precision Structures



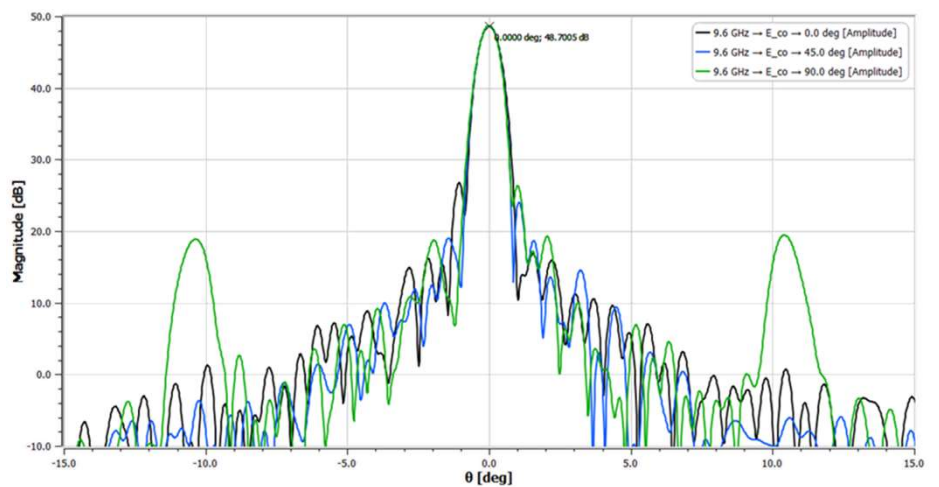
**KaTENna**

**3m, Flight Production Article, TRL-9**

**Stowed KaTENna 3m System**



**3m as-built measured directivity >48.7 dB at 9.6 GHz**



Tendeg is a hardware delivery company focused on advanced deployable antennas and precision structures. The group specializes in large deployable reflectors (UHF to Q/V Bands with Diameters from 0.5 to 20m) with integrated RF feeds, deployable helicals and log periodic antennas, gimballed platforms with control electronics, precision hinges, booms, trusses and other advanced spaceflight architectures. Tendeg has deployed over a dozen large antennas in space and has delivered more than twenty integrated antenna systems in the first eight months of 2024. Tendeg is employee owned, has a team of 120 staff members and is based in Louisville, Colorado

