

# μLCT™ Laser Communication Terminals

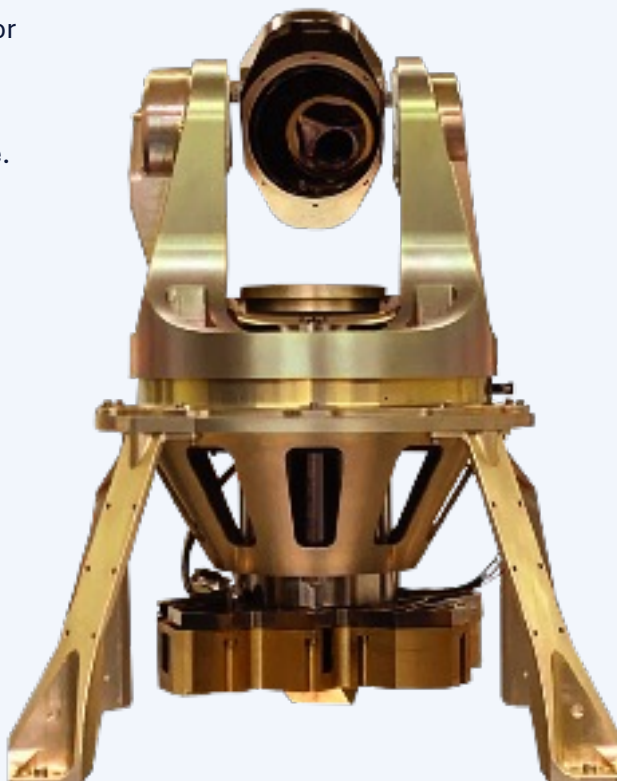
## OVERVIEW

Voyager Space offers a μLCT™ LasercomTerminal for civil, commercial and defense applications. Our system blends the best of traditional rad-hard-by-design products with fully qualified terrestrial technologies to produce leading-edge performance. The μLCT can be used as an OISL (Optical Inter-Satellite Link), a spacecraft to ground link, or a spacecraft to UAV link.

- High Throughput Connectivity to 400+ Gbps
- Low Probability of Intercept and Detect
- Resilient, Anti-Jam Alternative to RF
- Configurable for GEO, MEO, LEO and Ground

## KEY FEATURES

- Provides full duplex GEO-to-GEO crosslinks at 80,000 km.
- Baseline: 10 cm Optics
- Single Aperture Optical Head Assembly
  - Scalable implementation to support much larger systems
- Typical Field of Regard: +/- 90° azimuth; +/- 30° elevation
- Integrated or stand-alone Beam Control System based on optical head
- Reusable SDA-compatible PAT algorithms and process
- Flexible Mini Bench Design
  - Accommodation for Single Mode Fiber or detector
  - Support for 1550 nm and/or 1064 nm
- Software Defined Modem hosts modulations:
  - 2.5 and 10 Gbps OOK or DPSK
  - 100 Gbps QPSK
  - 16QAM
  - Multi Channel using DWDM



## APPLICATIONS

Ideal for LEO, MEO and GEO Applications

- Securely Move High Volumes Of Data
- Constellation crosslinks
  - Efficient data routing
  - Requires fewer downlinks
- Single hop data delivery
  - Eliminate double hops
- Sovereign landing of information
  - Control where information is brought to Earth
- Space-based data aggregation