## SECURE NETWORKED COMMUNICATIONS



A

GA-EMS' Optical Communication Terminals (OCTs) and Optical Ground Stations (OGSs) are scalable and adaptable to enable robust, multi-domain communications between space, air, land, and sea, across a variety of space orbits.

## **OCT** | Optical Communication Terminal

- Compliant with SDA v3.1 OCT standard
- 70 mm aperture for 5500+ km link range
- Up to 10 W 1530-1565 nm transmit fiber laser
- Wide field-of-view (WFOV) camera for robust Pointing, Acquisition, and Tracking (PAT)
- Hemispherical field-of-regard with low Size, Weight, and Power (SWaP)
- Software defined modem

## **Enhanced Protocols and Ranges**

- · Higher data rates and alternate coherent communication protocols
- Scaled OCT apertures available 70 mm & 135 mm
- Burst-mode capability (SDA v4.0)
- · Hardening for bLEO orbits and higher availability
- · Fiber-coupled receiver with low noise amplification
- · Designed for agnostic modem/data interface

## OGS | Optical Ground Station

- Compliant with SDA v3.1 OCT standard
- 10 W 1530-1565 nm transmit fiber laser
- 70 cm aperture supports bLEO link ranges
- Option for enhanced protocols and data rates
- Adaptive optics for atmospheric turbulence mitigation supports advanced communication protocols
- Transportable trailer mount available
- Field experience since 2014





