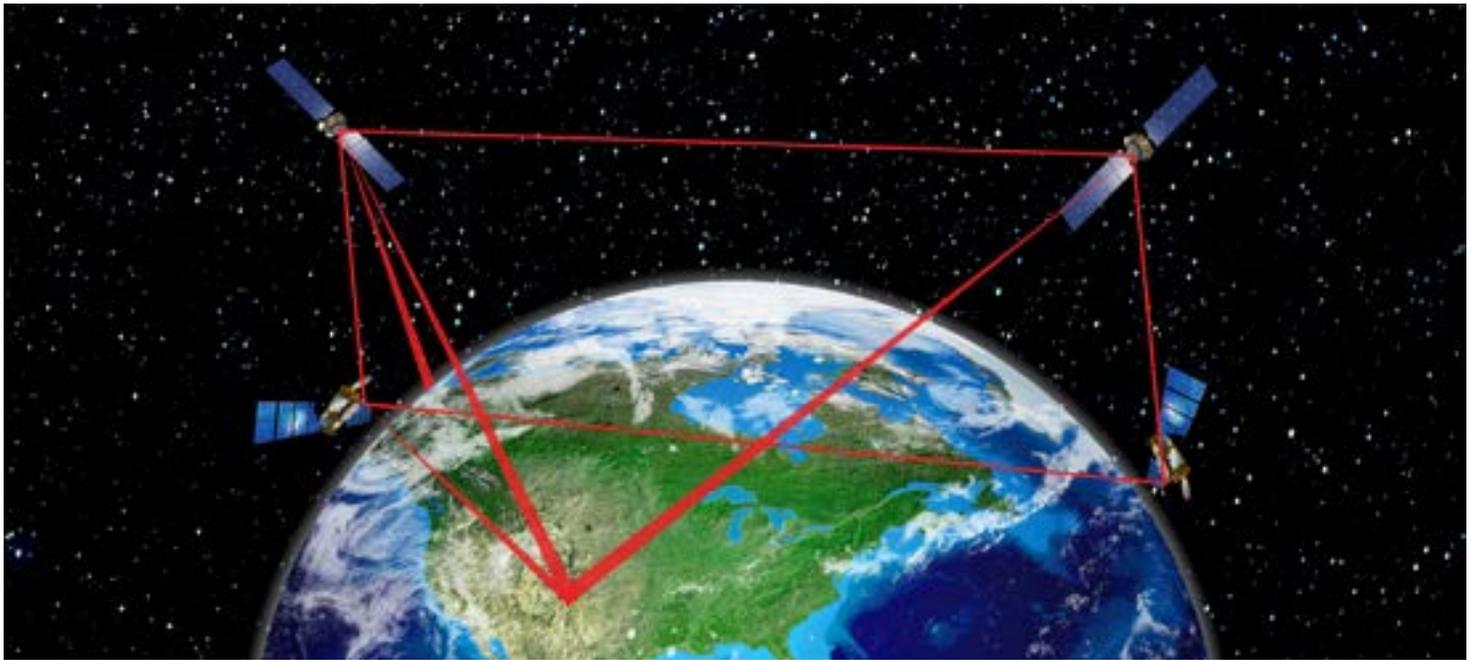




OVERVIEW

The growing demand for increased bandwidth for communications and internet connectivity drives the need to develop and provide world-wide, low-latency, high data rate optical communications satellite cross-links and space-to-ground links. ATA's Laser Communications portfolio is focused on developing and providing free space optical communications solutions and products to the national security, civil space, and commercial markets. ATA's optical communications products offer high-bandwidth, high-security solutions that overcome spectrum allocation issues and provide 100-1,000 times increased bandwidth over radio frequency communications systems. To date, ATA has focused its developments and marketing on the intersatellite communications and space-to-ground market subsegments.



ATA's strategic goal for its laser communications campaign is to be the supplier of choice for building, testing, and delivering Laser Communications Terminals. ATA offers a range of product solutions from small, low data rate optical terminals to mid-sized optical terminals (providing modest size, weight, and power and medium data rates) to larger, GEO-based optical terminals (providing high data rate solutions). ATA's key technologies designed into its laser communications solutions include advanced platform stabilization subsystems, innovative tracking and pointing subsystems, real-time controls algorithms and firmware, compact, athermal optical designs, and unique isolation subsystems. ATA works closely with customers using its sophisticated Modeling and Simulation tools and system engineering processes to rapidly develop laser communications concepts that trade key parameters to develop link performance budgets that meet their requirements.



SOLUTIONS AND CUSTOMERS

- Space-Qualified GEO LC Stable Platforms
 - » 16 Delivered to Government Customer
- Space-Qualified Stable Platforms
 - » 2 Delivered to NASA's LCRD Program
- Space-Qualified High Bandwidth Fast Steering Mirrors and Electronics
 - » Commercial LEO LC Satellite Program
- Space-Qualified Latch Gimbal Assembly and Isolation System
 - » NASA LEMNOS Program
- LaserCom Cross Link (LCXL)
 - » U.S. Air Force
- CubeSat LC
 - » U.S. Special Operations Command
- GEO-to-Ground LC Optical Module
 - » Commercial Customer
- Constellation Designs for High Data Rate GEO-to-LEO Optical Communications Terminals
 - » Various LC Programs



ABOUT ATA

ATA, in business since 1975, is an advanced technology company specializing in precision stabilization, tracking, pointing, and controls for optical systems including high energy laser systems and optical communications systems. ATA is an ISO 9001 certified quality organization.

Products may be subject to U.S. Export regulations as required in accordance with the International Traffic in Arms Regulations (ITAR), 22 C.F.R. § 120 et seq., and the Export Administration Act, 50 U.S.C. Appendix § 2401-2420.