



Delivering Data at Lightspeed The Kepler Network

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Optical Data Relay On Demand

Unlock the full potential of your mission with The Kepler Network, a hybrid data relay architecture bringing modern Internet connectivity to space.

Kepler's optical data relay constellation provides space assets with an on-demand, bidirectional gigabit communications link. Connect to our network using a selection of SDA-compatible optical terminals to obtain direct low-latency Internet access for your spacecraft.

Our optical network services are powered by two near-orthogonal planes of optically interconnected relay satellites in sun-synchronous orbits. Combined with a global network of Ku-band ground stations, The Kepler Network provides complete coverage to user spacecraft in low Earth orbit (LEO).

We take the guesswork out of mission communications by offering Persistent, Assured, and Flexible connectivity options, allowing operators to plan communications on a timeline that makes sense for each mission.

The Kepler Network is a backbone for LEO communications and is scalable to market demand with the launch of additional satellites.



Secure and fully redundant
space and ground segments



Interoperable with all SDA-
compatible optical terminals

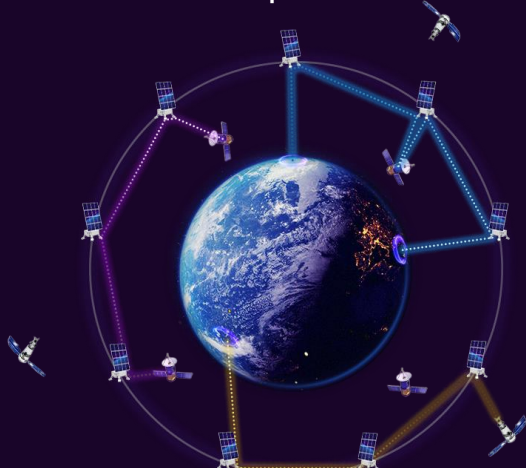


Real-time connectivity



Up to 2.5 Gbps optical links

The Kepler Network



Kepler Optical Data Relay Service

Data Rate	Up to 2.5 Gbps bidirectional
Coverage	95% availability anywhere in low Earth orbit above 400 km.
SDA-Compatible Optical User Equipment	80 mm-class SDA OCTs: 70 W / 15 kg, currently available and on orbit. Small-SWaP OCTs: 40 W / 3 kg / 3U, available ~2025.

Kepler's optical technology demonstrator satellites launched November 2023 with optical inter-satellite links successfully validated June 2024.