



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 capabilities to space.

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

Kepler's optical network services are powered by two near-orthogonal planes of relay satellites in sun-synchronous orbits, with satellites in each plane continuously inter-connected. Combined with a global array of Ku-band ground stations, The Kepler Network provides full coverage to spacecraft in low Earth orbit.

We take the guesswork out of mission communications by offering scheduled, assured, and persistent connectivity options, allowing operators to schedule communications on a timeline that makes sense for each mission.

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



Secure and fully redundant
space and ground segments



Interoperability with all SDA-
compatible optical terminals



Real-time connectivity



Up to 2.5 Gbps optical links

Kepler Optical

Data Rate	Up to 2.5 Gbps
Coverage	Low Earth orbit (400-1,000 km) with >95% availability.
User Equipment	SDA-compatible optical terminals: 70 W / 15 kg / 30U, FM available 2023 Small terminals (under development): 30 W / 4 kg / 3U, FM available 2024
Availability	Technology demonstrator: Nov 2023 2025: Available within 30 minutes 2026: Available within 5 minutes

