

Kepler Hosted

Your Payload. Our Network. Infinite Reach.

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kepler.space



Fly your payload on The Kepler Network and unlock the power of optical connectivity in space.

The Kepler Advantage

Kepler Hosted leverages our active satellite network to put missions in orbit faster. By integrating payloads onto Kepler's proven, on-orbit infrastructure, customers gain immediate access to global communications coverage without the cost and complexity of building dedicated spacecraft. This approach dramatically shortens timelines, reduces risk, and enables missions to benefit from a network that is already operating at scale.

Optical Connectivity in Space

Pioneering the use of optical technology across our on-orbit network, Kepler is bringing Internet-like connectivity to space. By linking satellites with high-speed optical inter-satellite links, Kepler enables hosted payloads to move unprecedented volumes of data across the globe—securely, reliably, and in near real time.

Partnership Approach

Kepler is the commercial leader in optical communications, uniquely enabling hosted payloads with high-capacity, low-latency, and secure connectivity. With an open architecture that integrates seamlessly into third-party government and commercial systems, customers gain direct access to an operational optical backbone already transforming how data moves in space.



Accelerated Access to Space



Resilient Optical Connectivity



Data Streaming <750ms Latency



Flexible Integration



Payload Mass Accommodation
up to 120 kg



Terabytes of Downlink Data Daily



Kepler Hosted Payload Service

With integrated access to our optical-enabled network, your payload benefits from secure, high-capacity, and real-time global connectivity.

From launch to link, Kepler manages the spacecraft—so you can focus on your mission. As Kepler expands its constellation and optical backbone, your payload automatically benefits from greater coverage, capacity, and performance over time.



Communications Parameter	Value
Space to ground latency	<750ms
Downlink volume per day	>20TB
Spacecraft Parameter	Value
Orbit-average payload power, end of life	≥400 W (subject to LTAN)
Maximum payload mass	~120 kg
Data storage available to payload	8 TB
Pointing knowledge	<0.005 degrees (3σ)
Absolute pointing error	<0.04 degrees (3σ)
External payload volume (L × W × H)	400 × 300 × 900 mm nadir deck
Internal payload volume (L × W × H)	250 × 250 × 400 mm available, configuration to be discussed
Propulsion	Hall-Effect Thruster (HET), Xenon, 200 kN·s
Satellite design life	5 years

Kepler-Provided Service	Capabilities
Payload Integration & Operations	• Payload requirements, accommodation, and integration analysis. • Payload integration, test and verification. • Launch. • Operations of satellite and payload in orbit.
Connectivity	• Up to 2.2Gbps connectivity via optical into the Kepler Network. • End-to-end sub second downlink latency.