

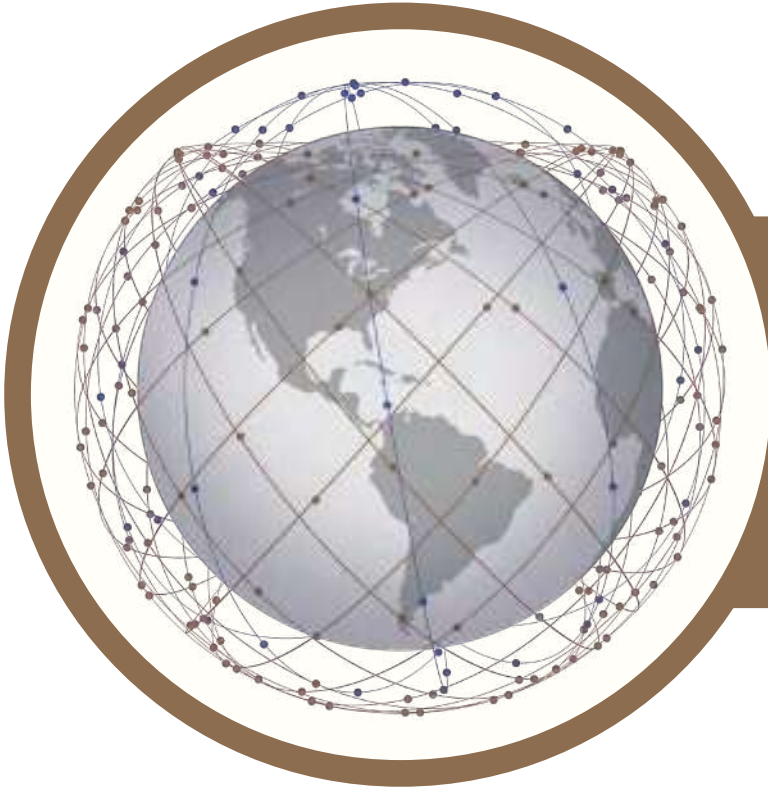


**TELESAT**  
**LIGHTSPEED™**

Transforming global  
communications

**TELESAT™**

# The Telesat Lightspeed Network



Telesat has developed a highly innovative global network composed of 188 state-of-the-art Low Earth Orbit (LEO) satellites, seamlessly integrated with on-ground data networks.

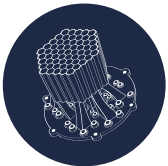
## The Telesat Lightspeed Network incorporates next-generation technology including:



**Data Processing in Space:** Full digital modulation, demodulation, and data routing occurs in space, resulting in higher capacity and flexibility.



**Phased Array Antennas:** Sophisticated antennas on each satellite with hopping beams scan the earth to provide full coverage and can dynamically focus capacity precisely where users require it.



**Optical Inter-Satellite Links:** Data can travel at the speed of light from one satellite to another, resulting in a fully interconnected global mesh network that allows customers to access the Telesat Lightspeed Network no matter where they are.



**Hybrid Orbits:** Satellites fly in a combination of polar and inclined orbits, resulting in complete global coverage, including polar areas, with higher capacity where most of the world's population lives.



# Unsurpassed performance at transformative economics



## High Throughput:

Gigabits per second speeds to a remote, and multiple Tbps of capacity in the network ensures enterprise-grade connectivity for unconstrained video streaming, video conferencing and file transfers.



## Low Latency:

The Telesat Lightspeed Network is about 20-times more responsive than today's geosynchronous satellites and on par with fibre networks. Service providers can be confident that encrypted web pages and enterprise cloud applications will work seamlessly.



## Global Coverage:

Every point on Earth is covered, including polar regions.



## High Capacity for Hotspots:

Our intelligent network can dynamically allocate bandwidth to areas with high traffic demand such as large communities or airport hubs.



## Always On:

Highly resilient network with multiple interconnected satellites and multiple ground nodes without any single point of failure ensures networks always stay connected.



## Quick Service Deployment:

Compliant with MEF 3.0 standards for seamless plug and play integration.

# Telesat Lightspeed

## Verified Performance

Telesat has conducted several testing campaigns with leading maritime, aero and enterprise service providers, demonstrating industry-leading high throughput and quality.

Telesat Lightspeed services will be available through leading connectivity service providers. To learn more, visit [www.telesat.com/lightspeed](http://www.telesat.com/lightspeed)

## Contact Us

---

### North America

#### Headquarters

Ottawa, ON, Canada  
+1 613 748 0123

Washington, DC, USA  
+1 301 771 4630

#### Telesat Government Solutions

Arlington, VA, USA  
+1 571 559 1500

### Latin America

Rio de Janeiro, Brazil  
+55 21 3211 9700

### Asia

Singapore  
+65 6538 1738

### Europe, Middle East, and Africa

London, United Kingdom  
+44 20 3927 3720

Visit us at [telesat.com](http://telesat.com)



Leveraging over 50 years of technical expertise and leadership as a global satellite operator, we are redefining space-based connectivity with our innovative Telesat Lightspeed constellation. Telesat is uniquely positioned to deliver this transformative, disruptive service to the world.