

**TELESAT**  
**LIGHTSPEED™**

**Resilient, global,  
real-time broadband  
network for maritime  
operations**

**TELESAT™**





Maritime connectivity demands are increasing exponentially for real-time ship-to-shore IoT and operational data, as well as crew connectivity requirements for home-like Internet browsing and streaming.



# TELESAT LIGHTSPEED™

A new global 'virtual fibre'  
service optimized for  
maritime connectivity

## Telesat Lightspeed incorporates next-generation technology including:

### Data Processing in Space

Full digital modulation, demodulation, and data routing occurs in space for processing, resulting in higher capacity and flexibility.

### Phased Array Antennas

Sophisticated antennas on each satellite with hopping beams 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 orbits, resulting in complete global coverage, including polar areas, with higher capacity where most of the world's population lives.

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Telesat has developed a highly innovative global network composed of 198 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.



# Resilient global real-time broadband network for maritime operations



## High Quality

Our low-latency network coupled with gigabits per second link speeds is 20-times more responsive than today's satellites, delivering secure, unsurpassed performance for ship to shore communications, crew welfare, and semi-autonomous operations.



## Global Coverage

Every point on Earth is covered so your network at sea never loses connectivity, even when traveling through northern latitudes. Our intelligent network understands your shipping routes and can dynamically allocate additional bandwidth to areas with high traffic or busy sea ports so your connectivity never gets throttled.



## Always On

Highly resilient network with multiple interconnected satellites and ground nodes eliminates any single point of failure, ensuring your network is always on.



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)



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