

Telesat LEO

“Home-like” Wi-Fi on the high seas



TELESATTM

Cruise ships connectivity demands are increasing exponentially, with needs ranging from high quality broadband Internet, consistent passenger experience everywhere, to improved shore-to-ship communication for efficient operations.

A new global 'virtual fibre' service optimized for cruise ship connectivity

Telesat LEO

Telesat LEO 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

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 LEO network no matter where they are

Phased Array Antennas

Sophisticated antennas on each satellite with hopping beams can dynamically focus capacity precisely where users require it

Hybrid orbits

Satellites in an industry-first 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

Telesat has developed a highly innovative global network composed of 300 state-of-the-art Low Earth Orbit (LEO) satellites seamlessly integrated with on-ground data networks.



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High Quality

Our low-latency network coupled with multiple gigabits per second link speeds is 20X more responsive than today’s satellites, delivering secure, unsurpassed performance to thousands of passengers on a cruise ship.



Global Coverage

Every point on Earth is covered delivering hundreds of Gbps in crucial maritime regions including the poles. Our flexible programmable network can dynamically allocate additional bandwidth on a ship-by-ship basis to optimize performance.

High capacity for key demand areas, like cruise ships ports and major cruise routes in the Caribbean and the Mediterranean.

Your network at sea never loses connectivity, even when traveling across continents.



Always On

Highly resilient network with multiple interconnected satellites and ground nodes eliminates any single point of failure, ensures your network is always on; allowing cruise lines to offer their passengers a lightning-fast Internet experience throughout their journey.

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

Telesat LEO, launching in 2022, will be available through leading connectivity service providers.



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