

TeLEOS-1

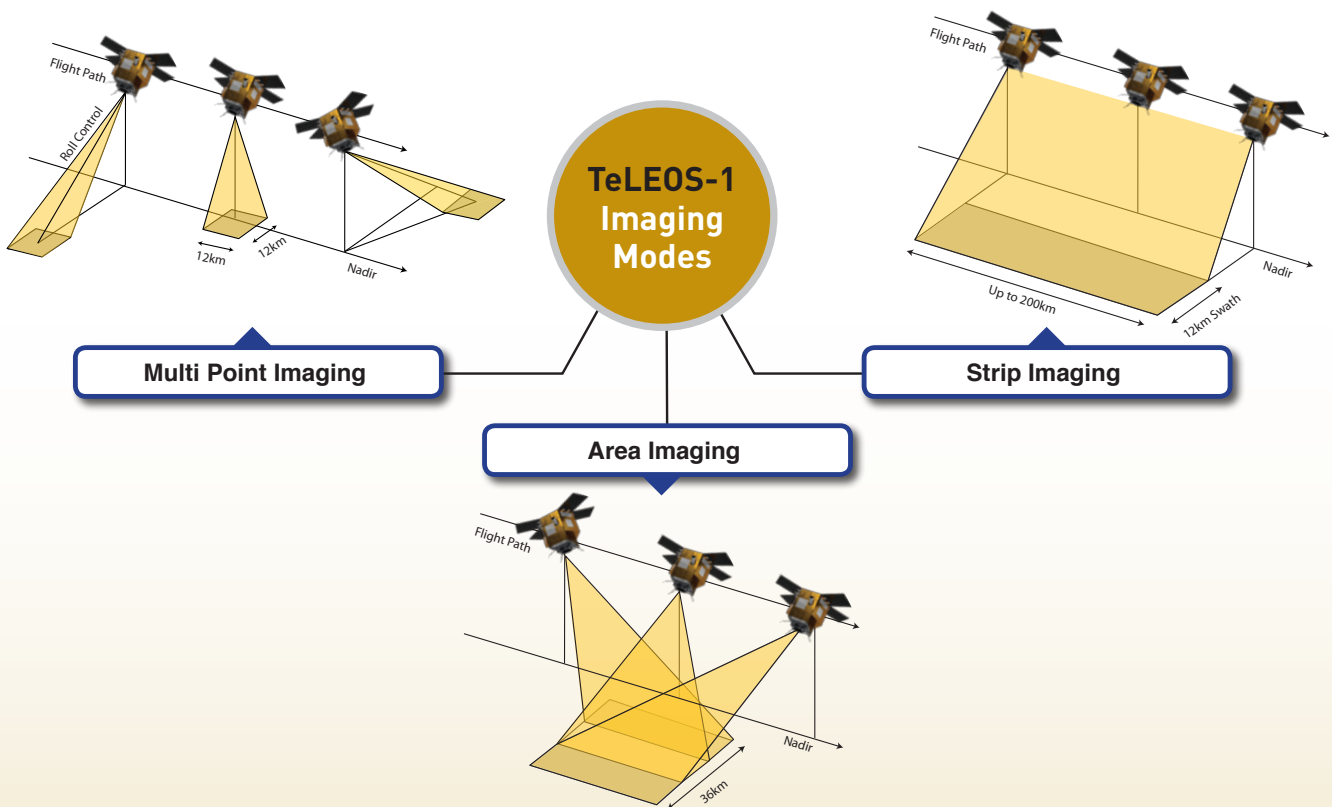
Singapore's First Commercial NEq0 Earth Observation Satellite

Scheduled to be launched in 2015, TeLEOS-1 is Singapore's first commercial Near Equatorial Orbit (NEqO) Earth Observation satellite. Operating at an altitude of 550 kilometres, TeLEOS-1 offers 1 metre high resolution satellite imagery with an average revisit time of 12 to 16 hours. This will enable decision makers and users convenient access to high temporal imagery and geospatial solutions to respond to time sensitive events, such as homeland security and border control, maritime situation awareness, and disaster monitoring and management around the equatorial belt.

Apart from reliable and rapid collection, the TeLEOS-1 offers direct tasking, imaging and downloading, and greater imaging opportunities throughout the day. The TeLEOS-1 is an excellent complement to existing Sun Synchronous Orbit (SSO) Earth Observation satellites, allowing the expansion of opportunities for global imagery offerings for commercial and government customers.

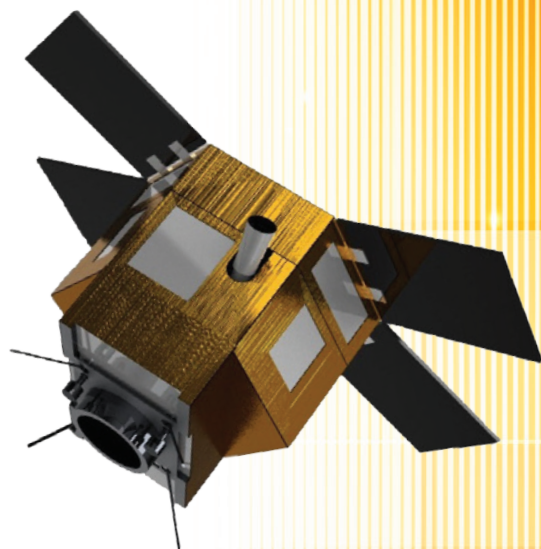
Key Features

- High resolution imagery for precise and high temporal change detection, mapping, and in-depth image analysis
- Greater imaging opportunities throughout the day with up to 15 passes per day
- Increased revisit rates for response to time critical events, such as maritime situation awareness and disaster management
- Direct tasking, imaging, and downlinks with superior response and deliverables of updated imagery products
- Excellent complement to existing SSO Earth Observation satellites



Technical Specifications

Satellite Manufacturer	ST Electronics (Satellite Systems) Pte Ltd
Launch Date	Q4 2015
Mission Life	Fully redundant 5 years design life
Orbit	Type/Period - Near Equatorial Orbit/ 96min Inclination - 10 to 15 degrees Altitude - 550 kilometres
Satellite Mass	Approx 400 kilograms (approx 880 pounds)
Satellite Data Storage	64 Gbits solid state recorder
Communications (CCSDS Compliant)	150 Mbps (X-Band)
Attitude Determination and Control	3-axis stabilised
Mission Control	Multiple ground station support

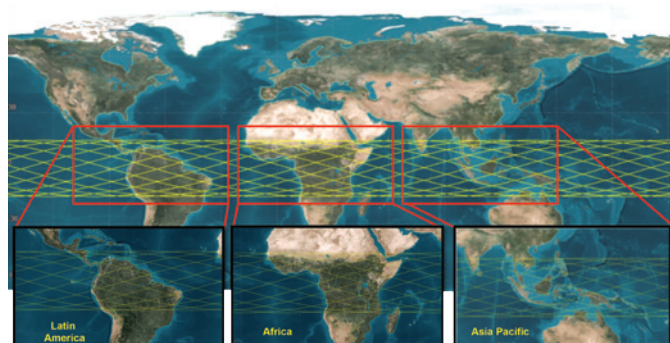


TeLEOS-1 Satellite

Imaging and Collection Specifications

Mean Revisit Time	12 to 16 hours
Imaging Opportunity	Up to 6 daylight imaging opportunities per day
Image Resolution	1m (nominal at nadir)
Dynamic Range	10 bits per pixel
Swath Width	12 kilometres at nadir
Slew Rate	2.5 degree/sec
Max Viewing Angle	± 45 degrees off-nadir nominal

TeLEOS-1 Coverage Regions



Note: All specifications are subject to change without notice.
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