

*Image credit: SSSL-Mini
render 2019. Credit: SSSL*

SSSL-MINI

A customisable platform built on strong heritage foundations

The SSSL-Mini is a highly capable and flexible platform based on SSSL's Core Avionics suite.

The platform supports SSSL's range of high performance payloads, including very high resolution imagers and SAR payloads. The structure is bespoke depending on the mission and payload requirements with a wide range of flight-proven options also available.

Configurations

- "Platform-to-go"
- Customer provided payload
- SSSL payload: custom or off-the-shelf

Benefits

- Cradle to grave complete mission service
- 7 year platform design life
- Structure customised to mission needs
- Fully redundant avionics
- Validated system FDIR
- Capable propulsion system options
- Compatible with Viasat Real Time Earth Networks

Payload compatibility

Ideally suited to:

- High Resolution Earth Imaging
- Synthetic Aperture Radar

Capacity to fly secondary payloads such as:

- Technology Demonstration
- Radiation Monitoring
- AIS

Key specifications

- Low earth orbit
- Payload mass: up to 200kg
- Payload peak power: up to 2000W
- 7 year platform design life

Why buy from us?

- 30+ years experience in satellite design and manufacturing
- 350+ years on-orbit operational satellite experience
- Avionics designed and manufactured by SSSL
- Customisable platforms
- Design licensing to manufacture
- SSSL options for payloads, launch services, ground stations and operation services

SSTL Custom Structure

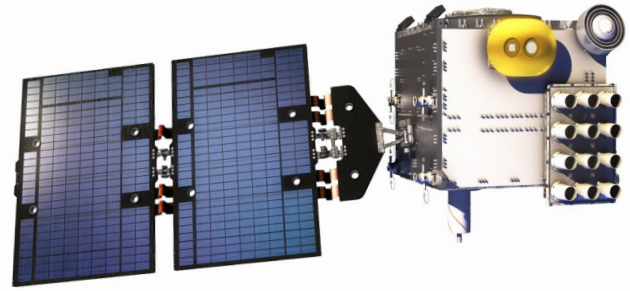
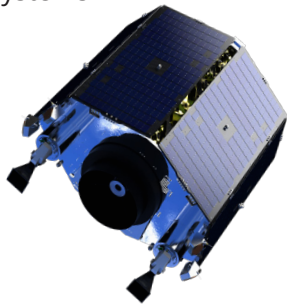
- Drawing on 30+ years of spacecraft design and flight heritage.
- Proven customisation and qualification
- Maximised reuse of heritage approaches

High Stability AOCS

- Star tracker options, including dual head operations
- Wide range of wheel and torque rod sizes, as required by the platform needs

Wide range of Propulsion Options

- Cold gas (Xenon, Butane)
- Hydrazine
- Electric systems



Highly Capable Payload Chain

- Up to 2000W peak payload power
- Up to 200kg payload mass
- >20 Gbps payload data input rate
- Up to 1 Gbps X-band downlink
- Up to 3 TByte data storage

Example configurations

- DMC3 / TripleSat (Launched July 2015)
- NovaSAR (Launched September 2018)
- S1-4 High Resolution Optical (Launched September 2018)
- FORMOSAT-7 (Launched June 2019)

DMC3 / TripleSat

