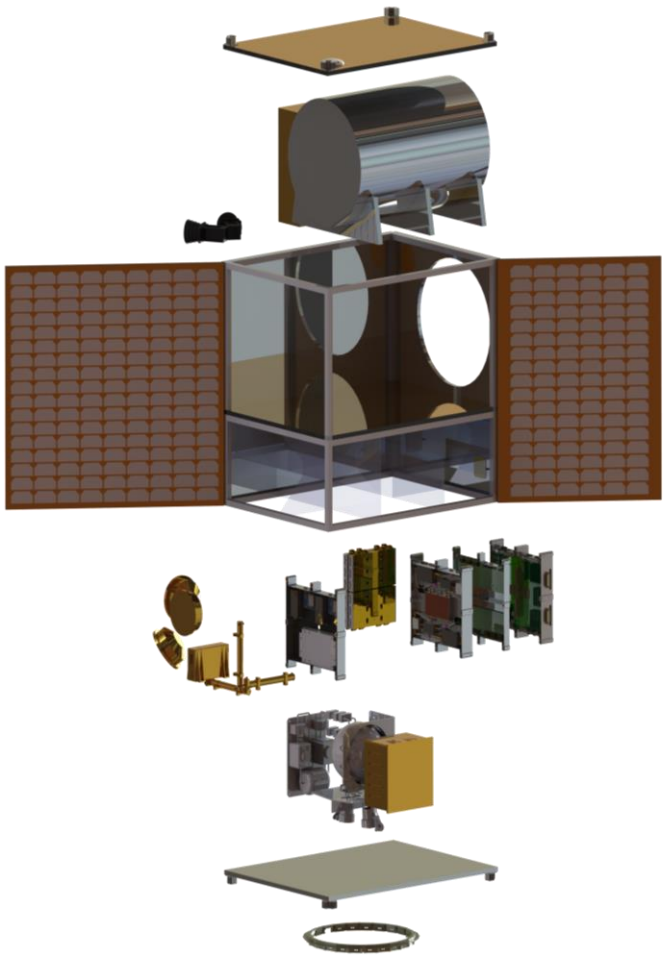
SITAEL

S-200

SITAEL S-200 is a Minisatellite-class Platform, up to 200 kg max launch mass, characterized by *state-of-art* bus performances, high payload embarking capability, modular structure (P/L and P/F modules, easing MAIT activities), designed explicitly with multi-purpose features.

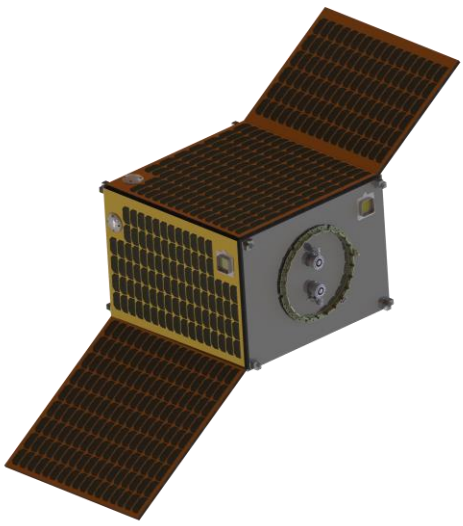
S-200 Platform is an all-electric platform, equipped with SITAEL low power Hall effect electric propulsion subsystem (enhanced orbit control capabilities), characterized by high power availability on-board (large deployable solar arrays and high battery capacity) and high performance AOCS (fine pointing with star tracker and high agility by torque/momentum actuators).

S-200 Platform, with its flexibility and multi-purpose features, is suitable for a wide series of space missions, in particular for Earth Observation applications (Hi-res imaging, companion bi-static SAR) and for Telecom constellations thanks to the autonomous orbit deployment capability by electric propulsion.



S-200 Platform exploded view

S-200 Platform flight configuration



S-200 Technical Data-Sheet

SPECIFICATIONS

Targeted mission	EO SSO in very-LEO @350-800 km
P/L max mass	Up to 80 kg
P/L avg power cons.	Up to 120 W
P/L allowable volume	Up to 900x700x560 mm^3
S/C launch mass (kg)	<150 / <200 kg (*)
S/C envelope LxWxH	900 x 700 x 900 mm^3
S/C power gen.(W)	up to 200 W Avg, 510 W Peak
Solar array cells	GaAs TJ, 30% Eff. Cells
Battery capacity	Li-Ion, 880 Whr
Pointing accuracy	<0.05°, 3-axis stabilization
Pointing knowledge	0.006°
Slew rate	Up to 3 °/sec (0.5 °/s^2)
Delta-V	Up to 1 km/s (*)
TT&C	S-band, up to 1 Mbps (TM TX)
PDHT data rate	X-band, up to 400 Mbps
PDHT data storage	Up to 256 GB
S/C redundancies	Full-cold / partially hot P/F red.
Lifetime	Up to 5 years

(*): Two scaled versions available

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