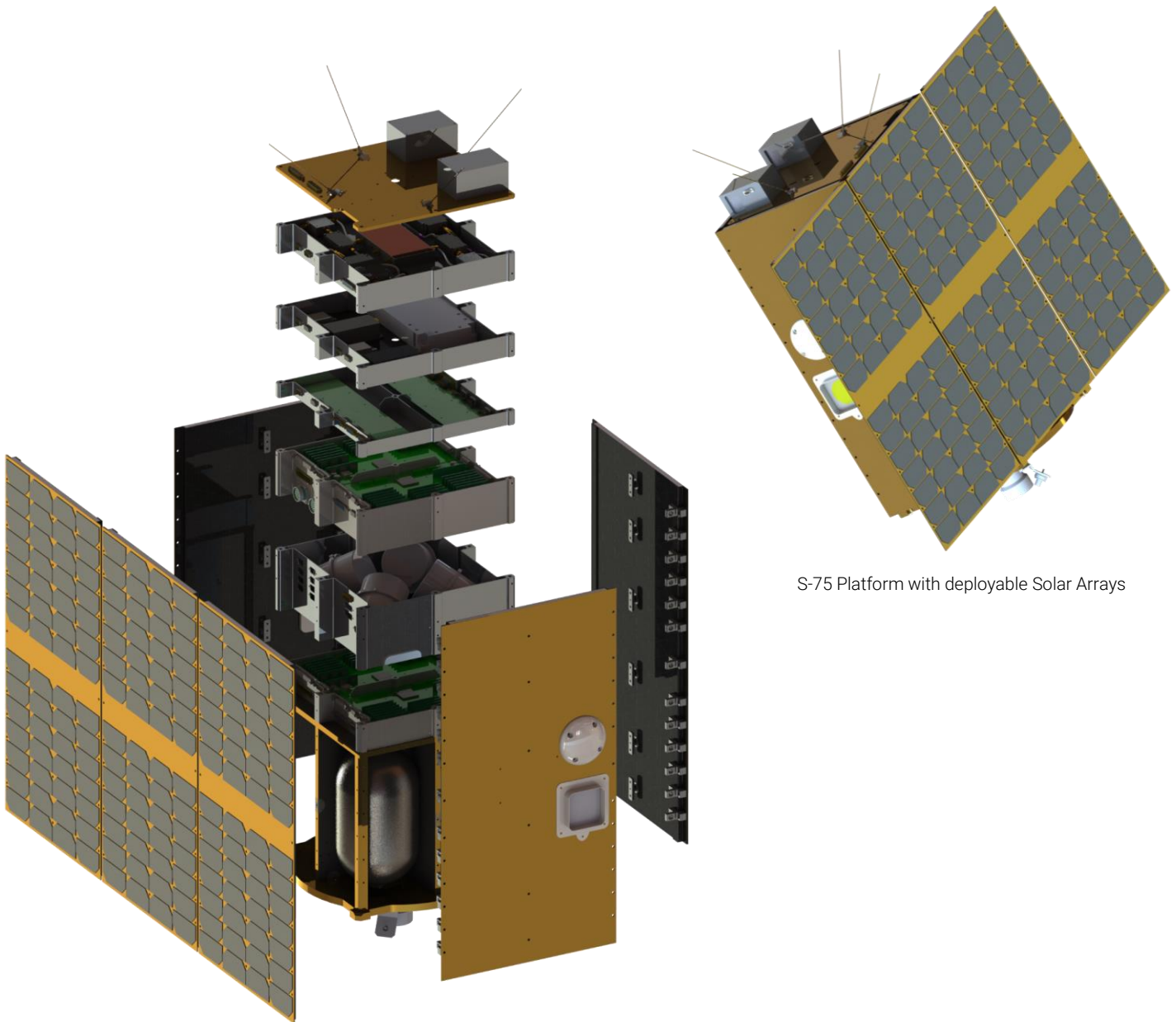


SITAEEL

S-75

The architecture of the SITAEEL Microsatellite-class Platform is based on two modules, namely the bus module and the payload module, that contain all the subsystems and payloads. In particular, thanks to the heritage of past missions, most of the subsystems and their units are arranged inside aluminum trays in order to provide physical separation, flexibility and reduced MAIT effort. The main bus is physically separated from the payloads and integration can be performed separately. In order to increase the overall system reliability, redundancy is implemented for most subsystems and units.

SITAEEL S-75 Platform can be also equipped with Hall effect electric propulsion, deployable solar arrays and fine AOCS.



S-75 Platform with deployable Solar Arrays

S-75 Platform exploded view

S-75 Technical Data-Sheet

SPECIFICATIONS	
Targeted mission	EO SSO in LEO @450-800 km
P/L max mass	20 kg
P/L avg power cons.	Up to 30 W (*)
P/L allowable volume	320x320x400 mm ³
S/C launch mass (kg)	<75 kg
S/C envelope LxWxH	340 x 340 x 750 mm ³
S/C power gen.(W)	Up to 100 W Avg (*), 160 W Peak
Battery capacity	Li-Ion, 340 Whr
Pointing accuracy	Up to 0.1° (*), 3-axis stabilization
Pointing knowledge	Up to 0.006° (*)
Delta-V	Up to 500 m/s (*)
TT&C	UHF, 10 kbps
PDHT data rate	S/X-band, up to 20 Mbps
PDHT data storage	Up to 64 GB
S/C redundancies	Full-cold P/F red.
Lifetime	Up to 3 years

(*): Optional (depending on H/W selection)

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