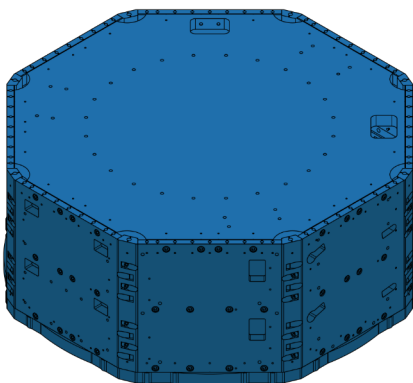




LEOS-100-D PLATFORM

The LEOS-100 takes small spacecraft platforms above and beyond. It is designed for mass manufacturing and focuses on modularity. The design is built on the proven LEOS-50 avionics, using standardized building blocks such as internal decks and octagon walls.



The LEOS-100-D is the standard LEOS-100. It is best for high reliability missions, offering full redundancy through duplication of avionics to remove any single points of failure from the spacecraft platform. Additionally, it supports missions requiring high reliability systems from in orbit servicing to defence.

Technical specifications are displayed in the table on the next page.

TECHNICAL SPECIFICATIONS

PLATFORM FEATURES

Payload Capacity	250 kg
Design Life	5 years in LEO (500 – 800 km), all inclinations
Modular Platform	EO, COM, LEO-PNT, ISAM
Heritage	Flight proven avionics
Reliability	No single point of failure

PERFORMANCE SUMMARY

Payload Dimensions	Only constrained by launch vehicle
Payload Data Rate	Up to 10 Gbps
Payload Data Storage	1 TB per DPU (can be increased up to 8+ TB)
Payload Data Downlink	X-band up to 1.2 Gbps, 2.5 Gbit/s optical as an option
Payload Peak Power	1300 W
Solar Panel Peak Power @AM0, 70°C	1300 W
TM/TC Interfaces (Bus ↔ Payload)	RS422, RS485, CAN, Ethernet
TM/TC Protocols (Bus ↔ Payload)	BST Protocol E, PUS
Propulsions	Electrical and/or chemical
Communications Protocols	CCSDS compatible Fully encrypted and authenticated with AES-GCM (256 bit)
Communications Security	Key exchange via 3072 bit RSA Diffie-Hellmann Post Quantum Cryptography as an option