

# SMALL SATELLITES

Nano to ESPA Class



The Space Dynamics Laboratory's (SDL) small satellite spacecraft platform delivers the performance, reliability, and mission flexibility needed for demanding small satellite missions. Our small satellite platform architecture draws from common sets of components for nano to ESPA-class satellites with variations in mission capability, parts quality, and radiation tolerance. The common design and flexibility enable engineers to develop mission-specific, reliable systems while keeping schedules short and costs low.

SDL's satellites and modular platform have flight heritage and can accommodate a wide range of Class D and C missions. Our state-of-the-art testing facilities, experienced staff, and high-performance systems ensure mission success. We provide mission support throughout the entire mission lifecycle, from concept through on-orbit operations.

## FEATURES

- Parts quality scaled to mission needs
- Options available for Type 1 encryption
- Support for a range of radiation requirements (LEO, HEO, GEO, planetary)
- Traceability from requirements definition through the design, test & verification phases
- Model-based systems engineering
- Comprehensive verification & validation of mission requirements with hardware-in-the-loop testing
- Flexible, customizable & adaptable solutions
- Fault-tolerant autonomous software to reduce operator workload & increase responsiveness
- Support for rapid prototype missions, using standardized components
- Full mission lifecycle engineering support
- Facilities on site to support all program phases, from fabrication to environmental testing