



NEXT-GENERATION SPACE DOMINANCE

Lockheed Martin's Next-Generation Space Dominance (NGSD) platform delivers a low-cost, rapidly deployable spacecraft built on the proven LM LINUSS™ and LM 50™ heritage. By standardizing avionics, software, radios and cameras in a single common bus, we eliminate long lead times and custom part bottlenecks. The result is a versatile, off-the-shelf spacecraft that can be customized with Interchangeable Payload Units (IPUs).



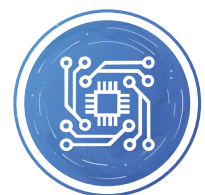
RESILIENT PERFORMANCE

Engineered for endurance and agility, with high delta-V capability, autonomous 6DOF rendezvous and proximity operations (RPO), and full-spectrum orbit access – from LEO to cislunar space.



MULTI-MISSION FLEXIBILITY

Modular, scalable architecture designed to support civil, commercial and defense missions, including on-orbit servicing, Earth observation, missile warning, and tactical intelligence, surveillance and reconnaissance (ISR).



PRE-INTEGRATED FOUNDATION

Built on pre-engineered core systems and Terran Orbital's established production infrastructure, minimizing non-recurring engineering (NRE), reducing risk and accelerating time to launch.



COST-EFFICIENT BY DESIGN

A plug-and-play platform built on standardized core components, eliminating the cost and complexity of bespoke builds and reducing overall lifecycle cost.



MISSION MANAGEMENT

Accelerated decision making and enhanced Dynamic Space Operations enabled by Battle Management Command, Control & Communications (BMC3), a rapidly deployable ground solution, automated mission planning, and advanced command and control.



RAPID DELIVERY

Streamlined manufacturing enables delivery of initial variants within 30 months, with follow-on configurations available within 24 months— keeping pace with mission urgency.

	NGSD VANGUARD	NGSD SENTINEL
PAYLOAD CAPACITY	<ul style="list-style-type: none"> < 15 Kg 2-6 IPU's or payload SWaP for mission-unique payloads 	<ul style="list-style-type: none"> < 100 Kg 6-12 IPU's or 1-2 IPU+ or payload SWaP for mission-unique payloads
OPERATIONAL LIFE	~ 3 years	~ 3-5 years
PROPULSION	<ul style="list-style-type: none"> ✓ 200 – 400 m/s ΔV w/ 6DOF control ✓ Redundant to disposal 	<ul style="list-style-type: none"> ✓ 500 – 600 m/s ΔV w/ 6DOF control ✓ Redundant to disposal ✓ Refuellable
PLATFORM	<ul style="list-style-type: none"> ✓ Integrated onboard inertial OD (GPS) ✓ Flight-proven C2 ✓ 4 vehicles per ESPA port ✓ Space-to-ground and/or cross link communications 	<ul style="list-style-type: none"> ✓ Integrated onboard inertial OD (GPS) ✓ Flight-proven C2 ✓ Full ESPA port ✓ Space-to-ground and/or cross link communications
RENDEZVOUS AND PROXIMITY OPERATIONS (RPO)	<ul style="list-style-type: none"> ✓ Autonomous navigation and control ✓ Farfield laser range finder ✓ Qualified visible & LWIR suite demonstrating operations down to 0.7m 	<ul style="list-style-type: none"> ✓ Autonomous navigation and control ✓ Farfield laser range finder ✓ Qualified visible & LWIR suite demonstrating operations down to 0.7m

NGSD is space dominance on demand.