

NanoStructure 12U

GOMSPACE



FLEXIBLE



RELIABLE



MODULAR

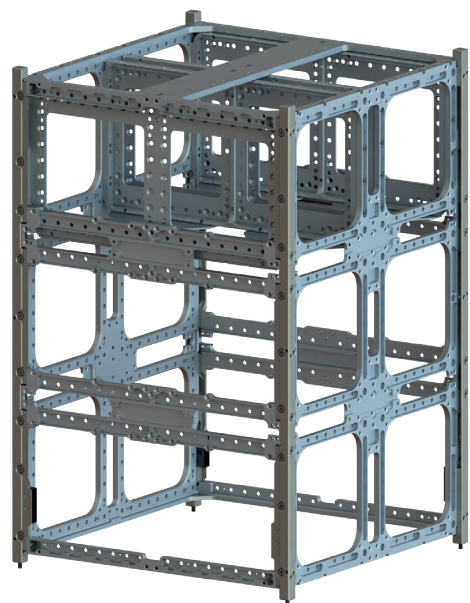
GomSpace NanoStructure 12U provides a flexible, modular, and lightweight yet robust structure, that is designed to meet the demands and challenges associated with large payloads in small sat platforms.

Building on the heritage* of GomSpace 6U structure, the NanoStructure 12U has been optimised to support large payloads, while also providing flexible payload placement options to support a wide range of missions. When every gram costs, weighing in at just under 1.5kg, the NanoStructure 12U is one of the lightest qualified 12U structures on the market.

NanoStructure 12U is fully compatible with GomSpace modules, allowing efficient integration. Other cost and time saving integration features include secondary structures which can be used to pre-assemble and test payloads before mounting in the 12U structure as well as for reinforcement. Compatible with all currently available rail-deployers, the NanoStructure 12U also includes four Kill Switches with 60cm leads for flexible customer integration.

Quality is a part of GomSpace DNA and is evident in features such as threaded holes with screw lock heli-coils designed to meet the vibration demands of ECSS and NASA, 14.1GRMS. Rails are hard anodized to conform with rail deplorer requirements.

The remaining structure has Surtec 650 surface treatment, which improves electrical conductivity of the alloy and provides corrosion resistance.



*Contact GomSpace sales for heritage information

Technical Information

NANOSTRUCTURE 12U	
Size	12U
Mass	1496 gr (default structure)
Outside measurements	340.5 x 226.3 x 226.3 mm (without kill switches)
Max. qualified mass**	20 kg
Vibration	ECSS and NASA, 14.1GRMS
Materials	Alu 7075-T7351 material
Surface Treatment	Surface treatment: Rails - hard anodised Structure - Surtec 650 TCP

**Please contact GomSpace if the total mass of your 12U satellite design exceeds 20kg

Available Services and Options

Mechanical Ground Support Equipment (MGSE) available on request.

- Integration fixture
- Vibration fixture
- Transport case

Contact

Please contact us if you want to know more about GomSpace NanoStructure 12U.



FLEXIBLE

- Large/complex payload support
- Flexible payload placement
- Flexible payload and module integration using secondary structures



RELIABLE

- ECSS and NASA, 14.1GRMS
- Alu 7075-T7351 material
- Rails - hard anodised Structure - Surtec 650 TCP



MODULAR

- Modular design
- Compatible Module Integration
- Compatible with NanoPower Solar Panels