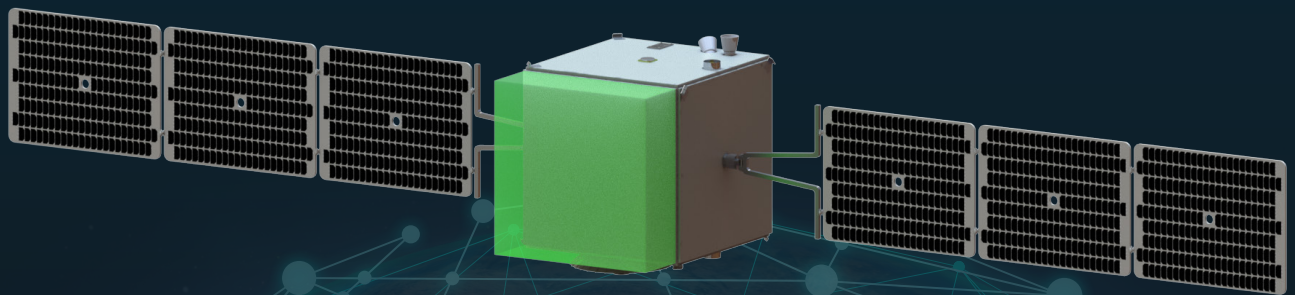


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Gluon Satellite Bus

# Gluon Satellite Bus

A highly autonomous and fault-tolerant satellite platform built to enable next generation of space-based services where connectivity and data flow are at the core. Designed for LEO and MEO missions and scalable from 200-500kg. The solution is built on a payload-agnostic approach, maximizing service availability and cost-effectiveness.

## Key Features:

Software-defined architecture & modular avionics.

Reconfigurable in-orbit.

Optical ISL with precision ADCS.

200-500 kg wet mass.

## Advantages:

High reliability.

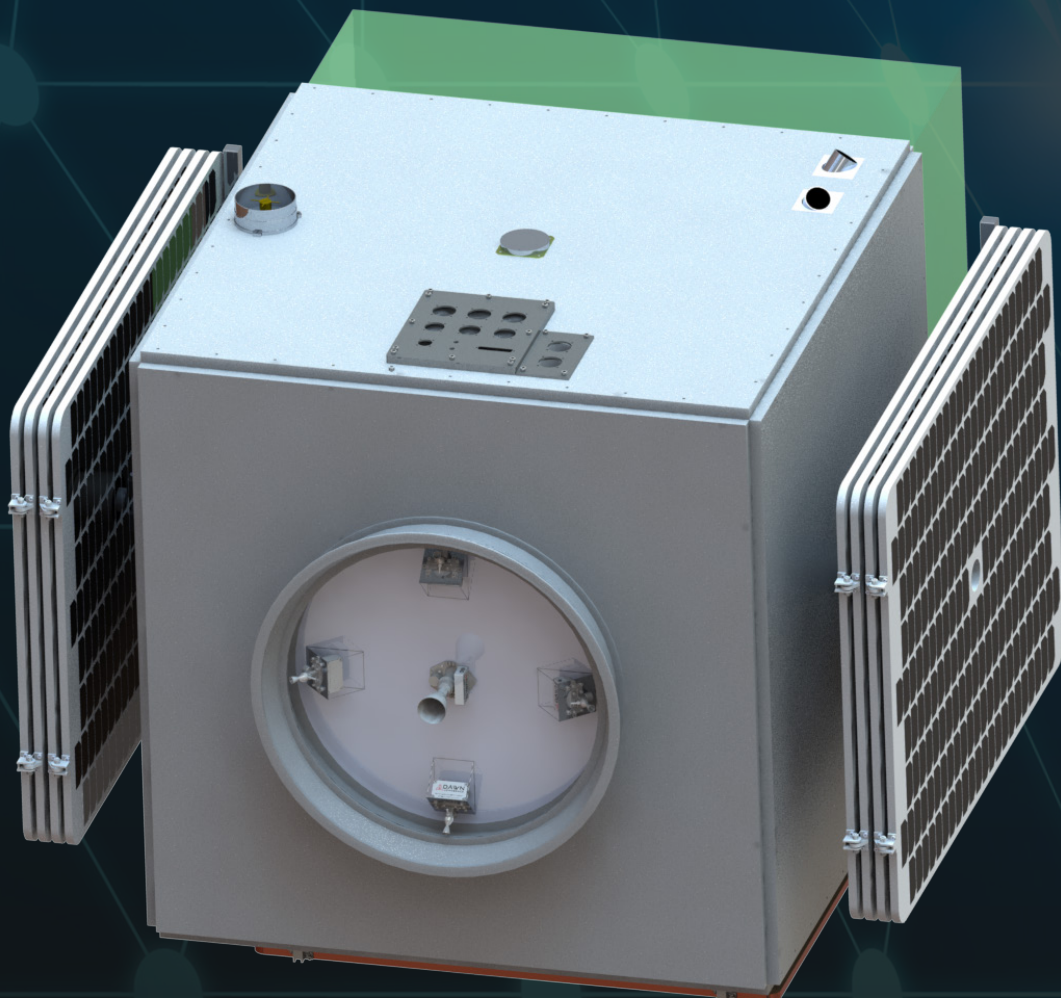
Rideshare-ready.

Autonomous orbit keeping and FDIR (Fault Detection, Isolation and Recovery).

Minimal customization.

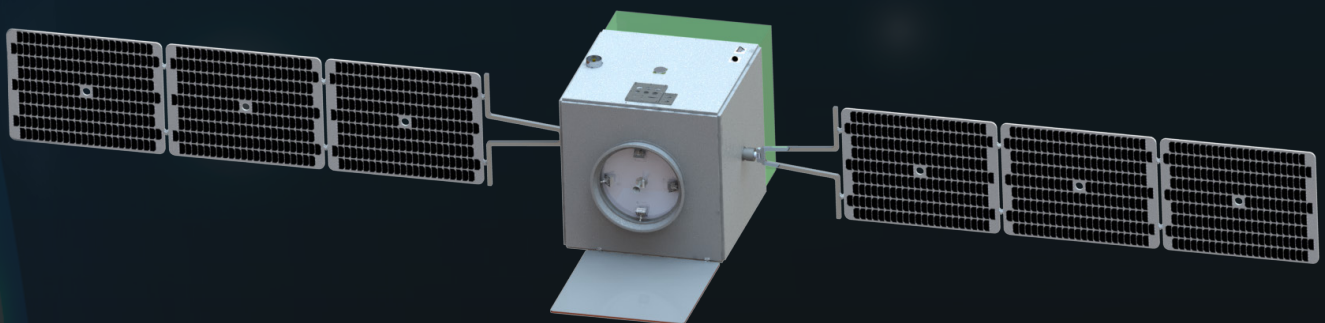
Minimal NRE (Non-recurring engineering).

Low-cost solution.



# Bus Characteristics

| Parameter            | Baseline Configuration                               |
|----------------------|------------------------------------------------------|
| Total Mass           | 200-500 kg                                           |
| Payload Volume       | 55 lt                                                |
| Max Payload Mass     | 150 kg                                               |
| Max Payload Power    | 1.5 kW                                               |
| Pointing Accuracy    | $\pm 0.020^\circ$ (1-sigma), 3 axes, 2 Star Trackers |
| Propulsion           | Chemical<br>Bipropellant(green)<br>Electric          |
| Nominal Lifetime     | 8 years in LEO<br>6 years in MEO                     |
| Typical Applications | EO, data relay, in-orbit servicing                   |



# Connectivity in space. Simplified.

To learn more about the Gluon Satellite Bus or request a quotation, please contact: [info@reorbit.space](mailto:info@reorbit.space)

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