

# Starpath Global Products and Services Portfolio

A Comprehensive Catalog of Commercial Satellite Platforms, Payloads, and Space-to-Ground Solutions

From **1kg Nano-satellites** to **2-Ton GEO Platforms**—engineered for the next generation of space exploration.



60+

Satellites with high resolution data

40,000+

Hours of Stable In-Orbit Operation

10+

Industries with real world cases

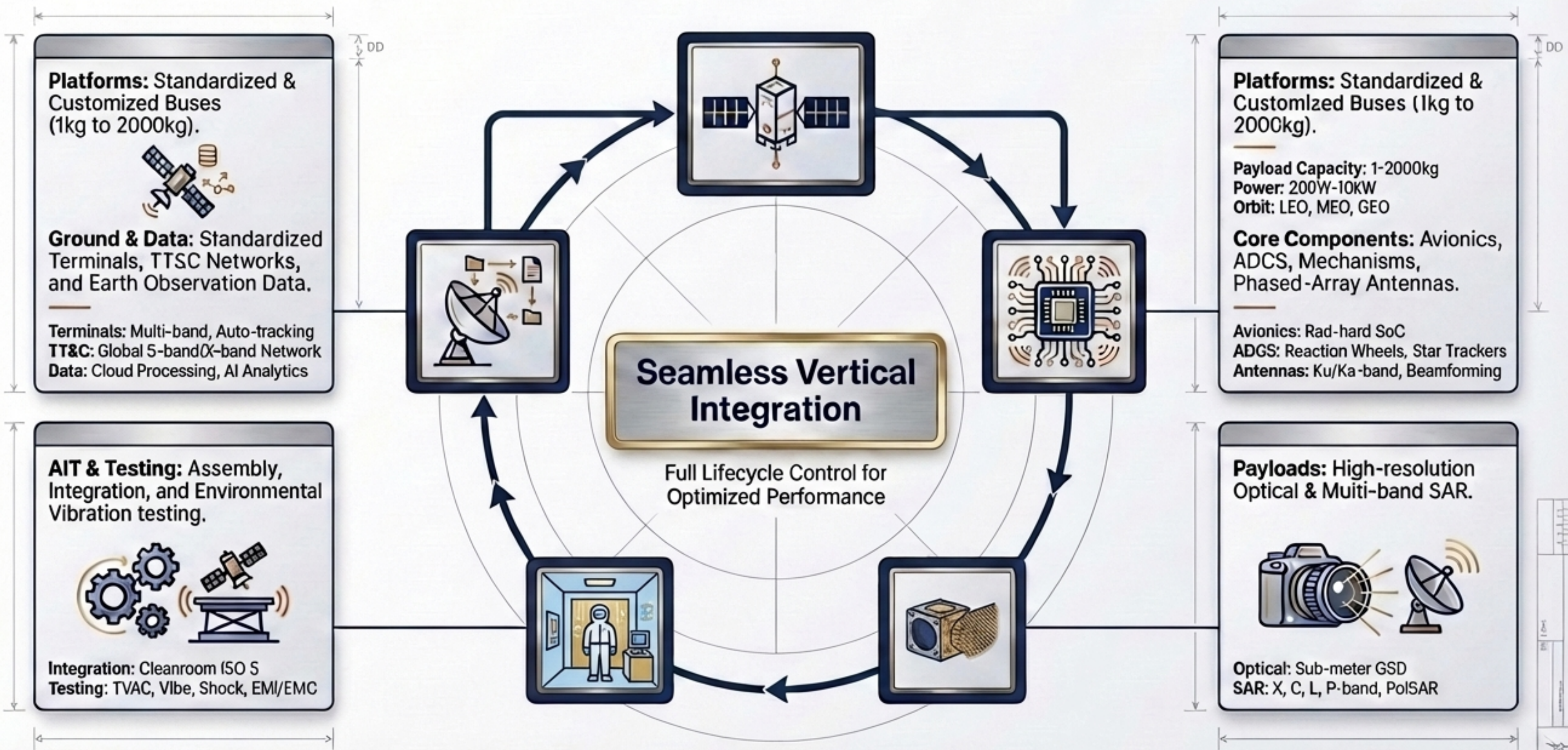


## The Turnkey Advantage

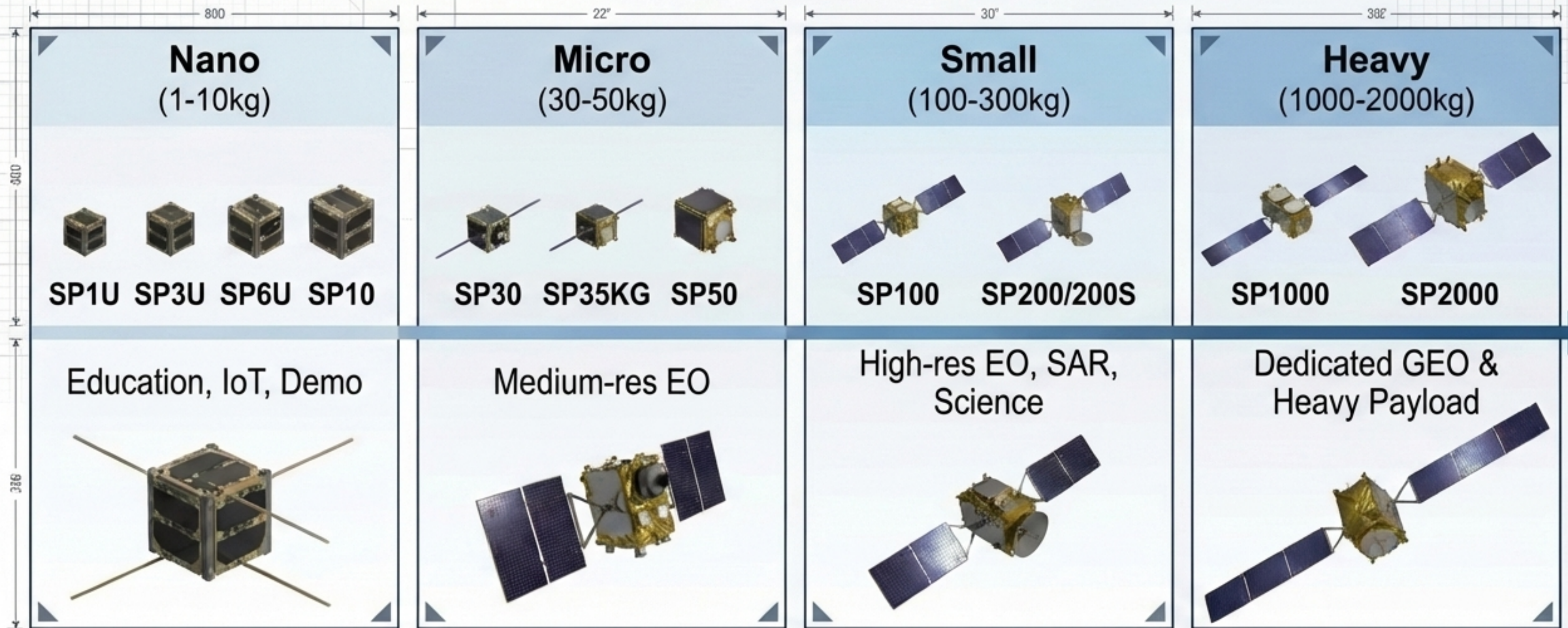
Merging pulse-assembly line manufacturing, custom AIT testing, and multi-band SAR data operations into a singular, closed-loop supply chain.

# The End-to-End Space Ecosystem

GENERAL	
FCID	
BRAND	
SERVICE	DELIVER

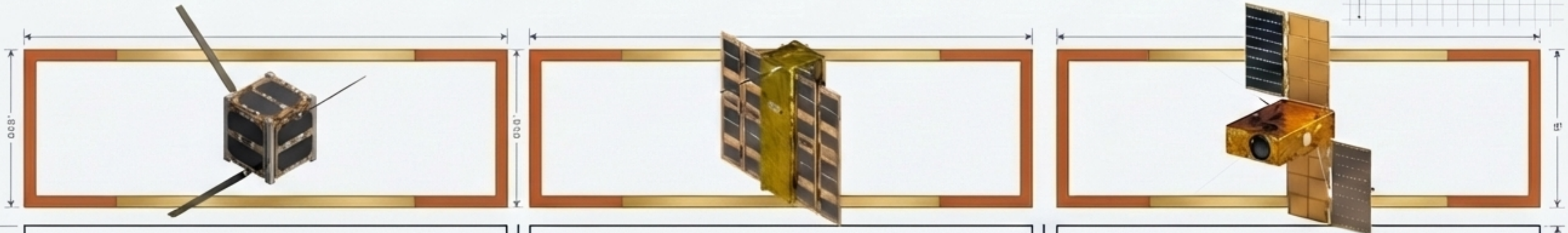
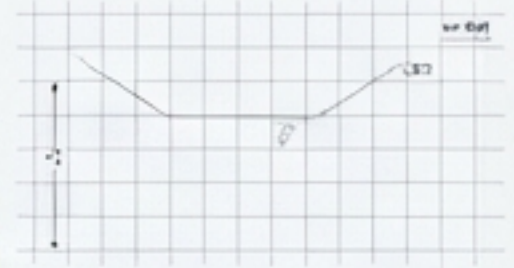


# The Unified Platform Spectrum

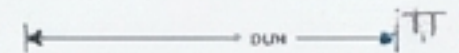
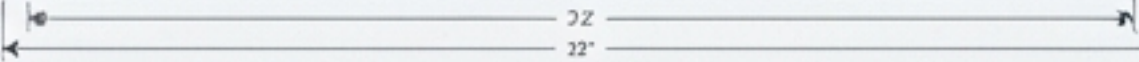


**A platform for every mission profile.**  
An unbroken spectrum of modular satellite buses.

# Nano & CubeSat Platforms (1kg – 10kg)

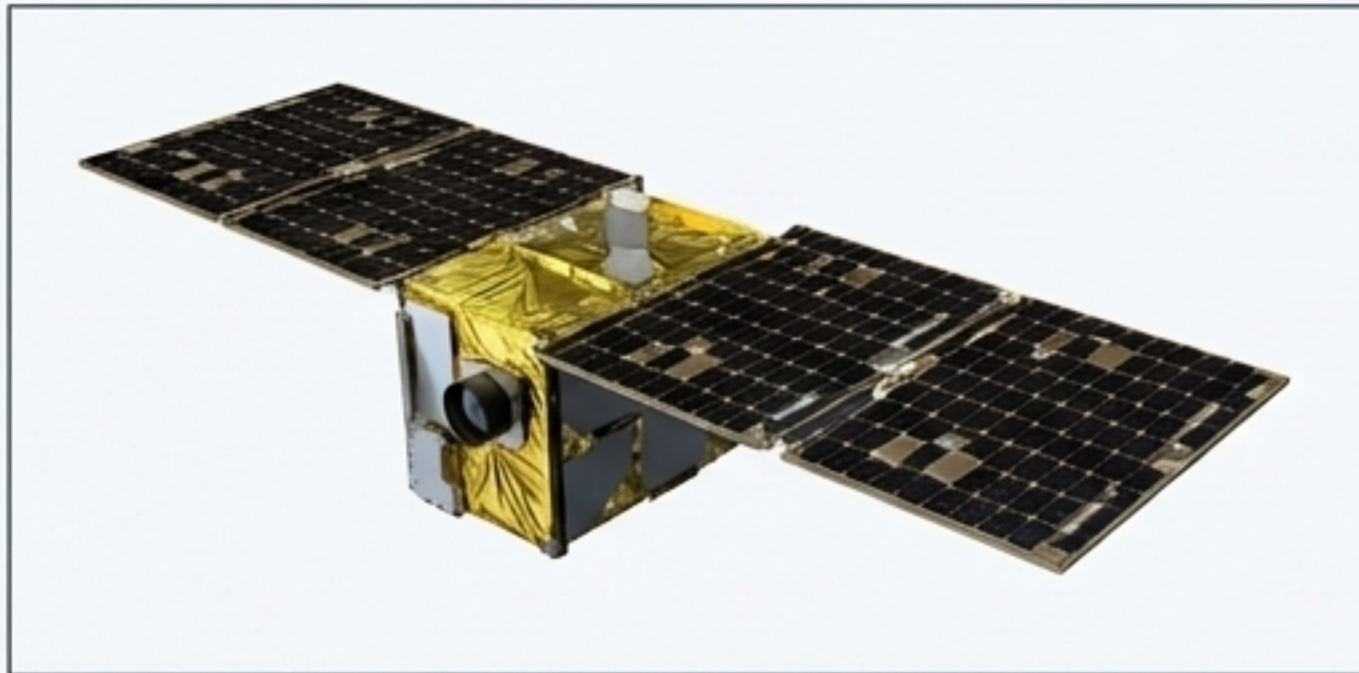


	SP1U-X	SP3U-X	SP6U-X / SP10
	1kg	3-5kg	10kg
	Magnetic Control	3-Axis (Bias Momentum)	3-Axis (Zero-Momentum)
	3-4W Power	10-25W Power	60W Power
	Pointing $\leq 5^\circ$	Pointing $\leq 1^\circ$	Pointing $\leq 0.05^\circ$
	Edu/Demo Missions	Comms <4Mbps	Formation Flying & EO



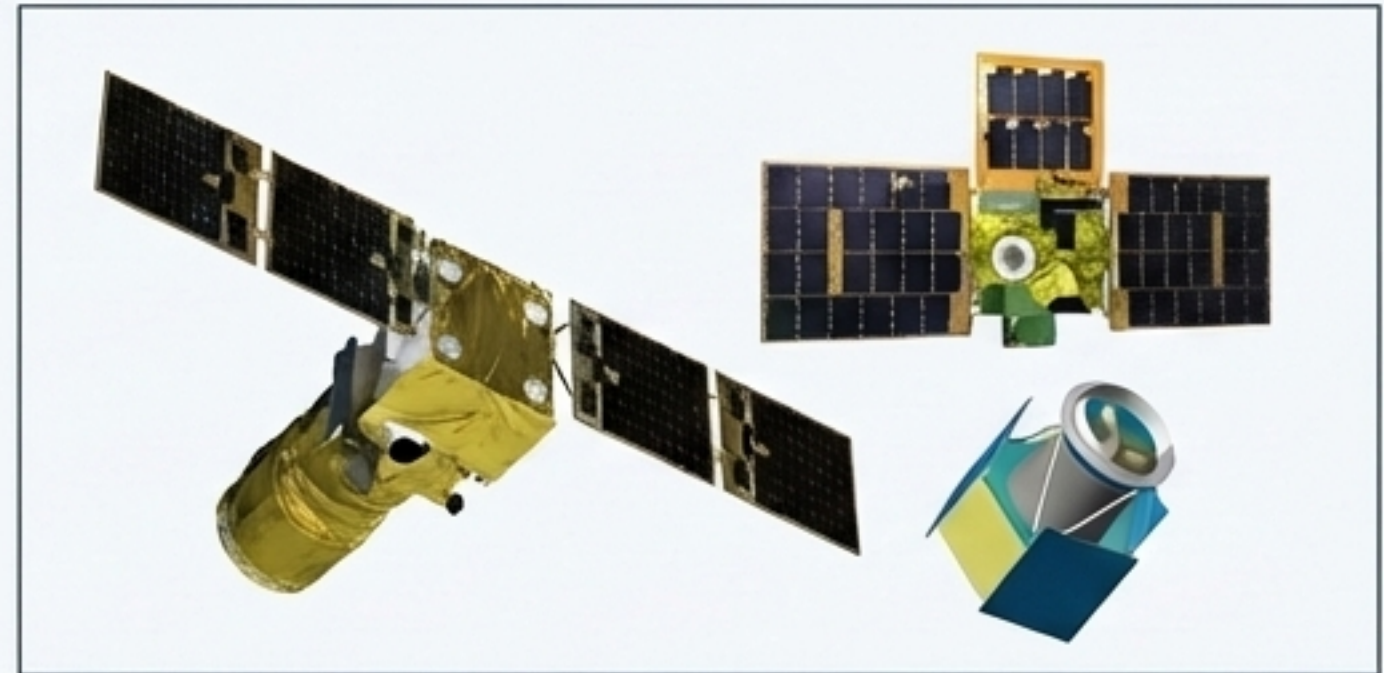
# Micro & Small Platforms (30kg – 300kg)

## Precision Remote Sensing (SP35KG & SP50)



- 35kg - 50kg Mass.
- Power >100W with deployable solar arrays.
- Pointing Accuracy  $\leq 0.01^\circ$  (Star tracker + IMU + GPS).
- X-band Data Transmission >100Mbps.

## Heavy Payload & Custom Science (SP200/200S)



- 100kg - 300kg range.
- Payload Capacity  $\geq 120$ kg.
- Engineered specifically for custom scientific research and heavy SAR/Optical deployments.

{%}

IBM Plex Mono

30

15

20

# Exclusive Heavy-Lift Capabilities

The only private commercial offering capable of 2-ton level bespoke development.

## SP1000 Class

1000kg total mass | Payload capacity  $\geq$  550kg | Engineered for ultra-high-resolution remote sensing

## SP2000 Class

2000kg total mass | Payload capacity  $\geq$  800kg | Dedicated GEO communication satellite platform

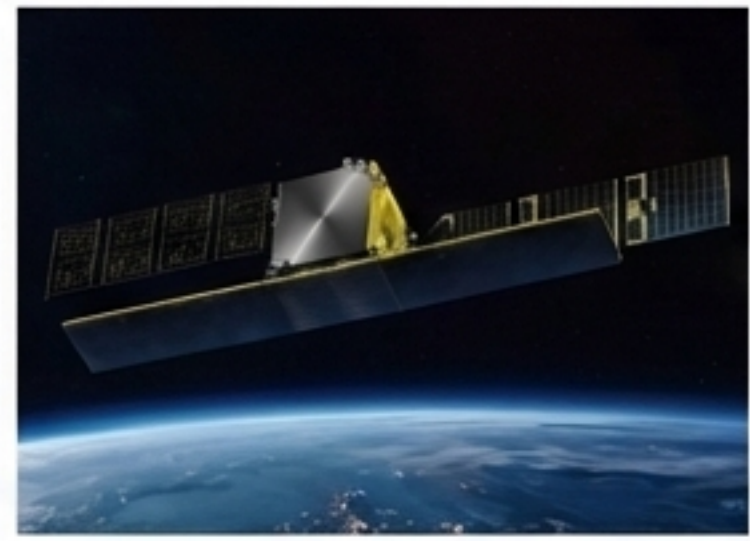


# Flagship In-Orbit Payloads: Major Data Source



## Optical Flagship

240kg Mass |  
0.5m PAN Resolution |  
12km Swath |  
450Mbps×2 Download



## X-Band SAR

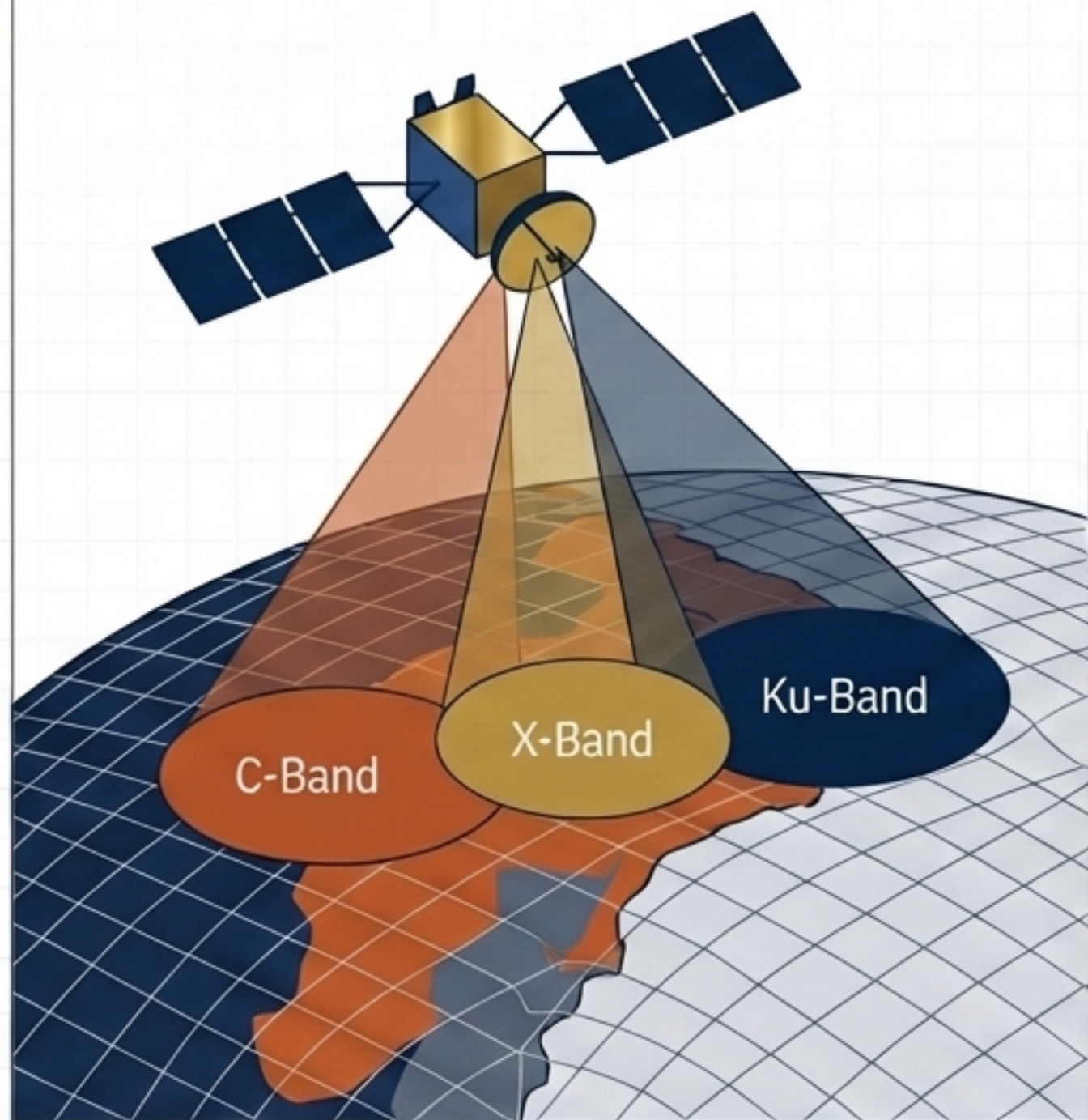
340kg Mass |  
Strip map & Sliding spotlight modes  
1m Resolution |  
600MHz Bandwidth



## Ku-Band SAR

230kg Mass |  
Active 2-D scanning phased array |  
1m/5km Spotlight |  
1.2Gbps×2 Ultra-fast download

# Commercial SAR Constellation & Data Services



## The SAR Ecosystem

A global pioneer in light, commercial SAR constellations.

## Technical Edge

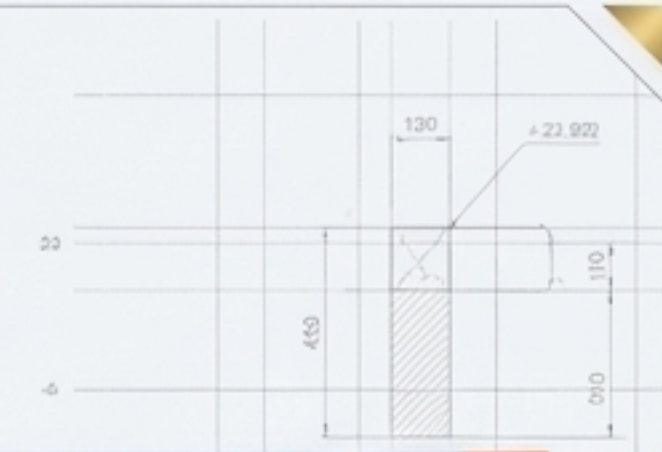
Multi-band, multi-polarization, anti-jamming, and repeat-pass

## Data Services

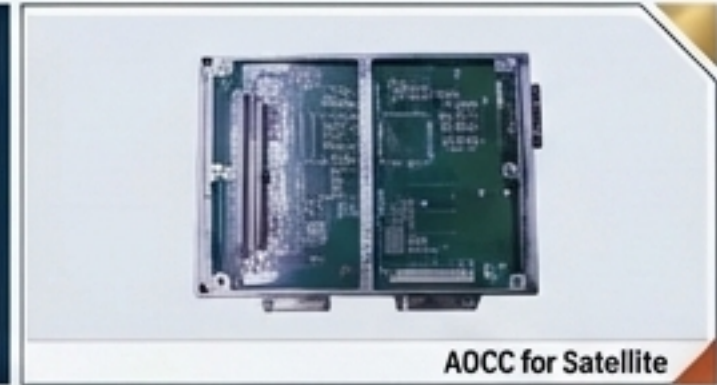
High-resolution, wide-swath continuous monitoring with flexible scheduling. Proven utility in rapid emergency response (e.g., precise mapping of Indonesian landslides for UN disaster relief).

# Subsystems & Core Components

Vertically integrated ecosystem offering mature components for external procurement.



OBC for Satellite



AOCC for Satellite



ADCC for Micro-nano Sat



OBC for Micro-nano Sat



Responder



Hold and Release Mechanism



Space Unfolding Hinge



Phased Array Data Ant.



High-Gain Data Ant.

```
1. * Encepleti Isr 2077, zecod 24b Go. 2as, Setjing, Calms  
2. * Xol Itgoca zecocra.  
3.  
4. * Ila Neoc: deca-e  
5. * Ila Beceprtoe:  
6. * Sucest: + zoreh Ocheas 2DC3  
7. * OIE: + holo-o
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## ADCS RTOS Software Interface

### Avionics

- OBC for Micro/Nano
- Satellite AOCC
- Custom RTOS ADCS Software

### Mechanisms

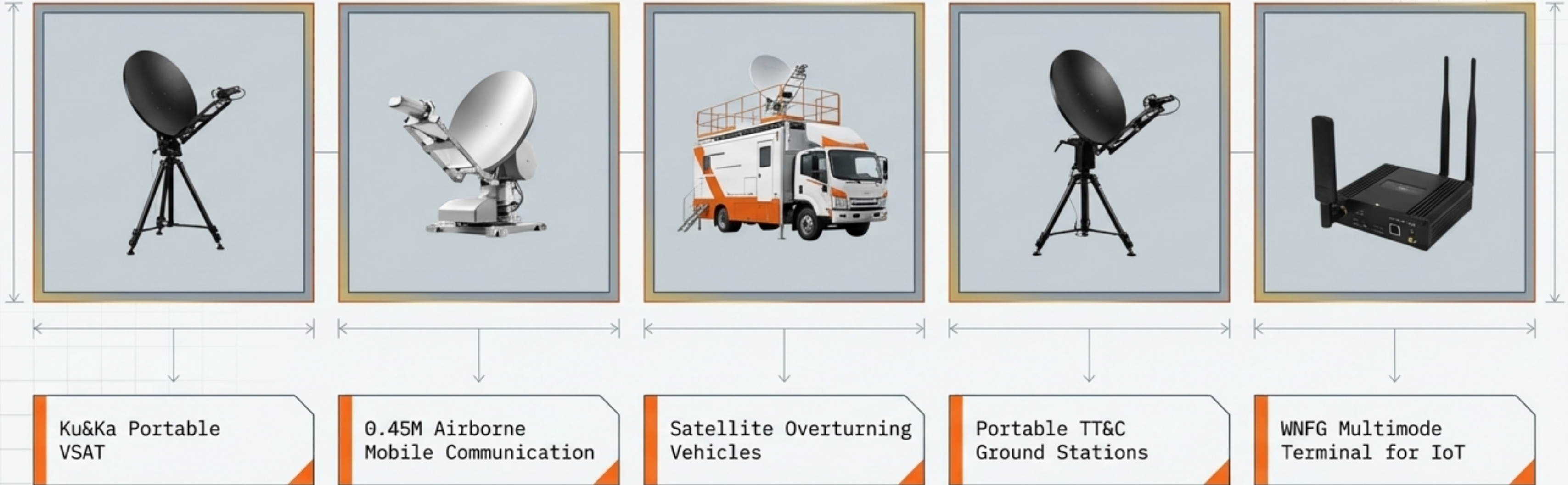
- Hold & Release Mechanisms
- Space Unfolding Hinges
- Magnetic Torquers

### Communications

- Spaceborne Phased Array Antennas
- Tape Antennas
- GNSS Antennas
- Transponders

# Standardized Ground Terminals

Cost-effective, highly reliable communication infrastructure tailored to diverse environments.



Ku&Ka Portable VSAT

0.45M Airborne Mobile Communication

Satellite Overturning Vehicles

Portable TT&C Ground Stations

WNFG Multimode Terminal for IoT

# AIT Bases & Environmental Testing



## Manufacturing (AIT Base)

- 13,500m<sup>2</sup> dedicated factory space.
- Pulse assembly line capable of producing 15 satellites simultaneously (60+ annual capacity).
- Reduces standard R&D and manufacturing cycles by 50%.

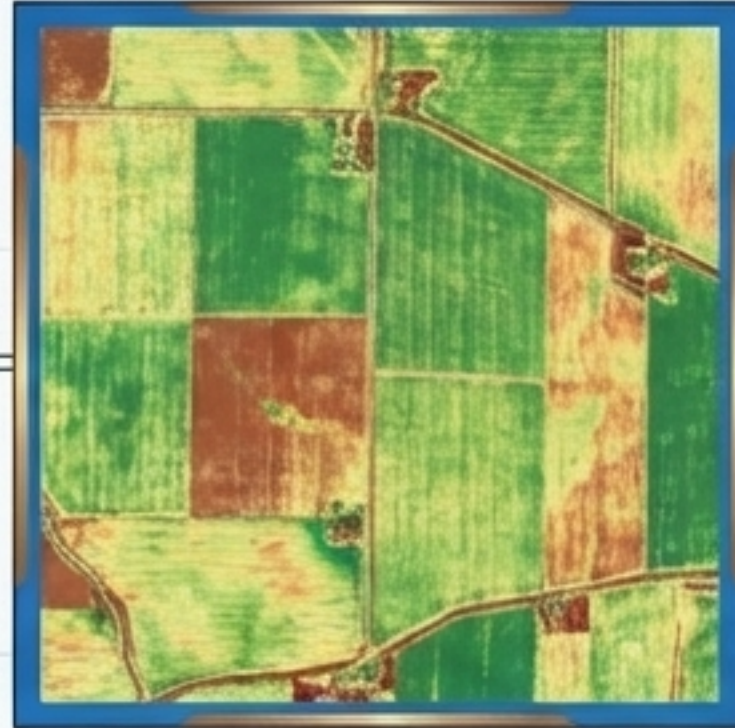
## Environmental Testing

- DC-600 Vibration Test System.
- 5.88kN rated sine thrust, 2-5000Hz frequency range, 120kg rated load.
- Ensures launch survivability and orbital stability.



# Remote Sensing Applications & Case Studies

**Crops Enhancement:** Monitoring crop health, predicting yield, and optimizing resource through multi-spectral imagery.



**Carbon Credit of Forestry:** Verifying forest cover change, estimating biomass, and supporting carbon sequestration initiatives.



**Mining:** Monitoring mining operations, assessing environmental impact, and managing rehabilitation efforts.



**Water Conservancy:** Tracking water resources, monitoring flood risks, and assessing water quality in reservoirs and rivers.



# Full Engagement in Satellite and Ground Terminal Processes



## Global Footprint

clients across 3 continents

## Turnkey Procurement

Unified contact channels for bespoke constellation planning, platform procurement, and continuous data services.

## Contact Info