



Spacecraft Platforms & Components
For safe and affordable means of labor in space

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An aerial photograph of a large industrial facility with a flat roof covered in HVAC units. A modern glass-walled entrance is visible, flanked by palm trees. A parking lot with several cars is in the foreground. A small sign with the GITAI logo is on the ground near the entrance.

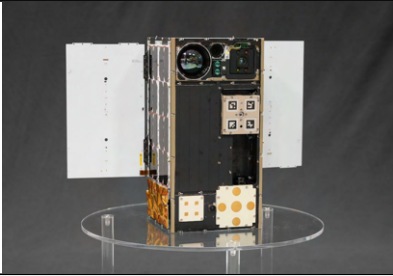
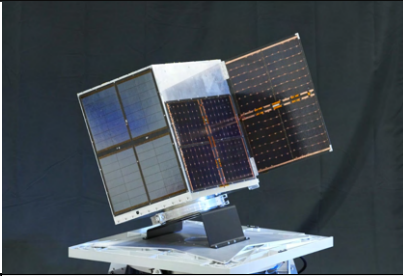
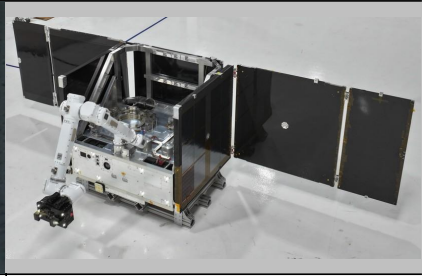
**GITAI builds all spacecraft
in our facilities in California, USA**



Standard Spacecraft Platform

P1

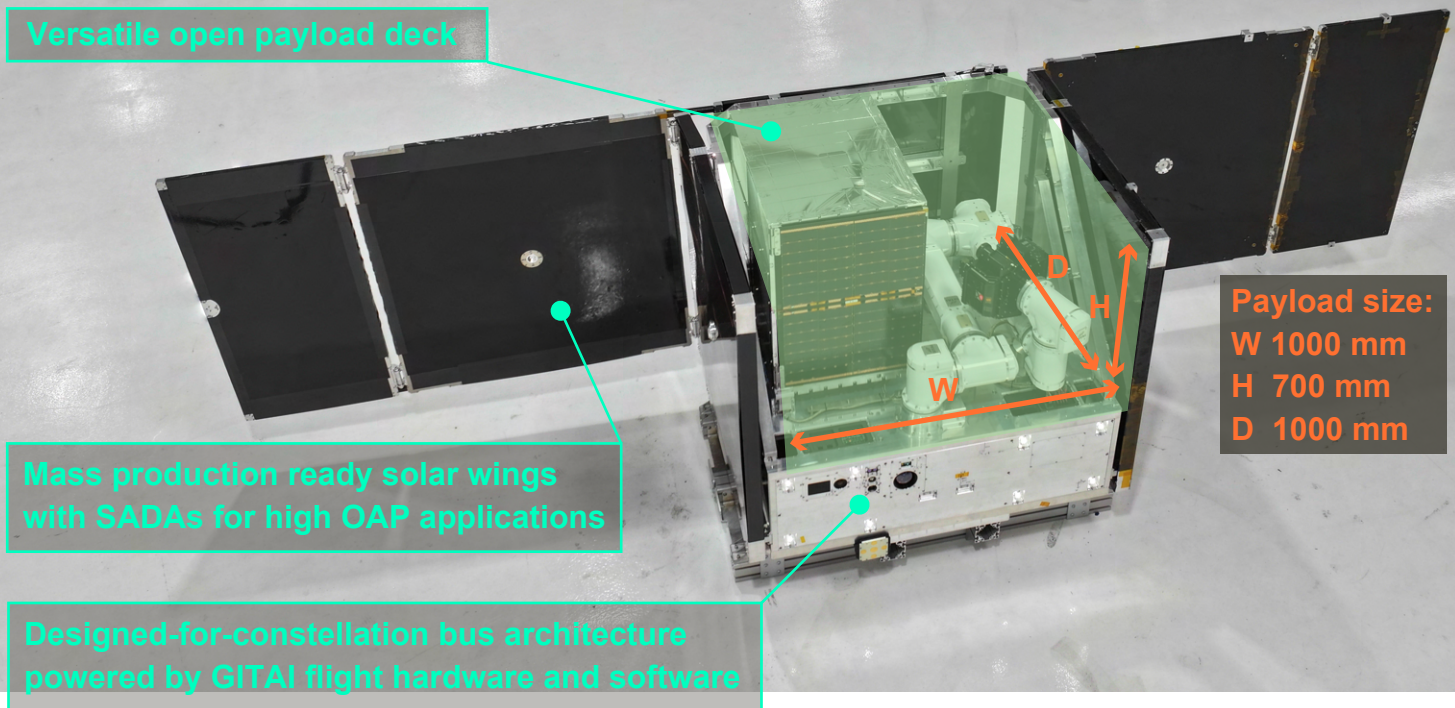
General

			
Name	GSAT-20	GSAT-50	GSAT-200
ROM	1M USD	1.5M USD	3M USD
Lead time	6 month	6 month	6 month
Mass w/o payload	20 kg	50 kg	250 kg
Payload Space	0.2 m x 0.2 m x 0.2 m	0.5 m x 0.5 m x 0.3 m	1.0 m x 1.0 m x 0.7 m
Applications	LEO, 5 years	LEO, 5 years	LEO, 5 years
Pointing Accuracy	30 to 75 arcseconds	30 to 75 arcseconds	30 to 75 arcseconds
CDH Config	Single	Single	Single
Propulsion	Green Bipropellant(N2O, C3H6)	Option	Option

Specification

Power(peak W, voltage)	100 W 28 VDC(regulated) 40 VDC(unregulated)	150 W 28 VDC(regulated) 40 VDC(unregulated)	1000 W 28 VDC(regulated) 40 VDC(unregulated)	
Power(continuous)	40 W	100 W	750 W	
I/F	Ethernet, RS422	Ethernet, RS422	Ethernet, RS422	
Launch configuration	Compatible with 16U CubeSat canistor	Falcon 9 Rideshare	Falcon 9 Rideshare XL Full Plate	
Comm	S-band X-band	S-band X-band	S-band X-band	
Option				
- Xenon EP			+80 kg Isp 1000 s 10 mN(continuous) 10 kN*s(total impulse) 200 m/s (200 kg payload)	+0.5 M USD (LT 12 months)
- Chemical propulsion	1 N *1 17 m/s		+100 kg 1 N *8 10 N *4 180 m/s (200 kg payload)	+1.0 M USD (LT 12 months)





Dual-use space platform for government and enterprise constellation

Payload Accommodation Specifications

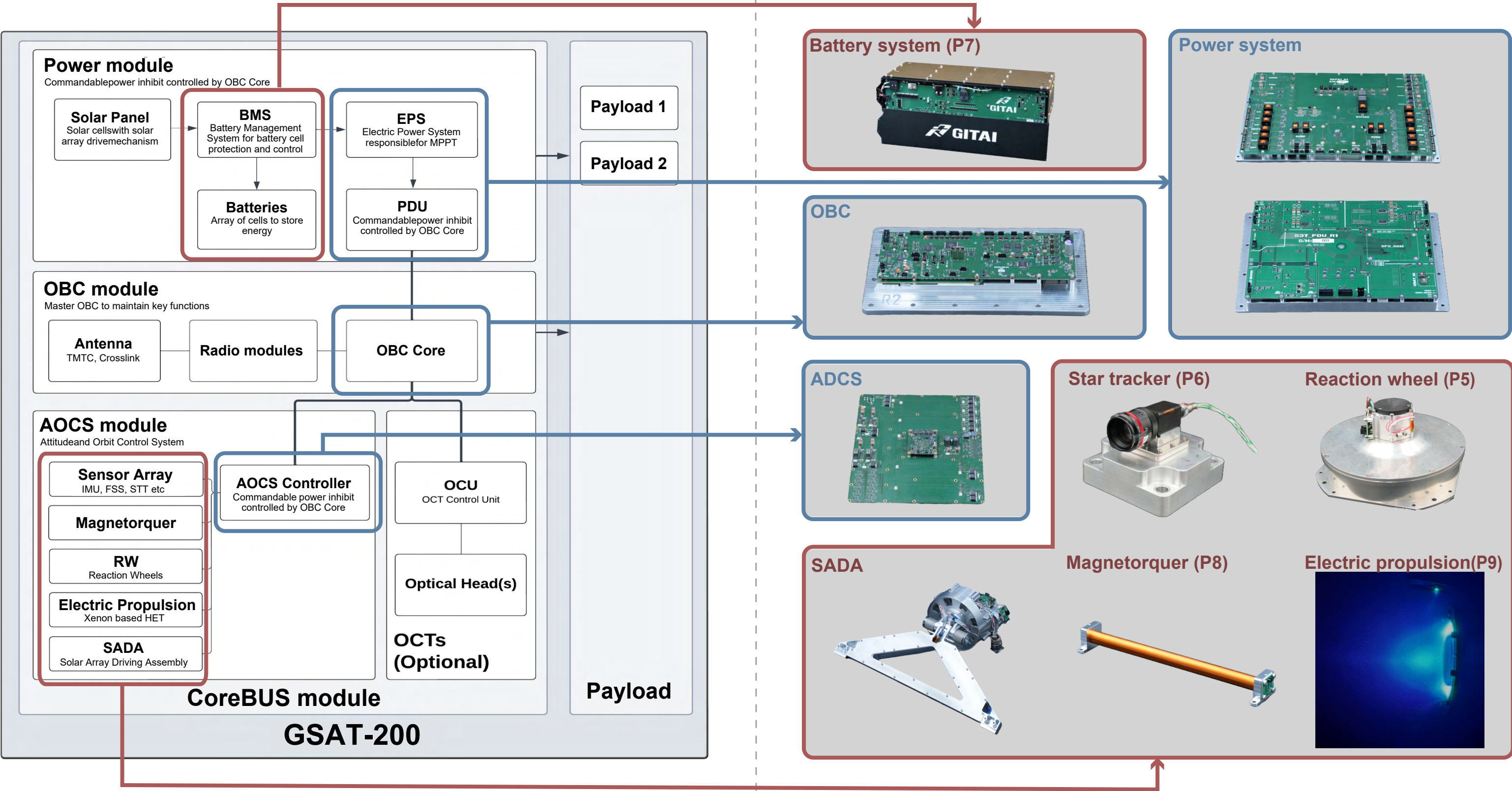
- Payload Mass	200 kg
- Payload Volume (Open Deck)	1000 mm x 1000 mm x 700* mm *Height depends on LV's payload volume
- Payload Peak Power	1000 W
- Payload OAP	750 W (with SADAs)
- Voltage	Voltage Regulated : 28 V Unregulated : 40 V
- Data Rate	S-band : 8 Mbps (up/downlink) X-band : 150 Mbps (downlink)
- Data Interface	Ethernet, RS-422
- OCT Accommodations	Up to 4 OCTs (Customer or GITAI furnished)

Mission Specifications

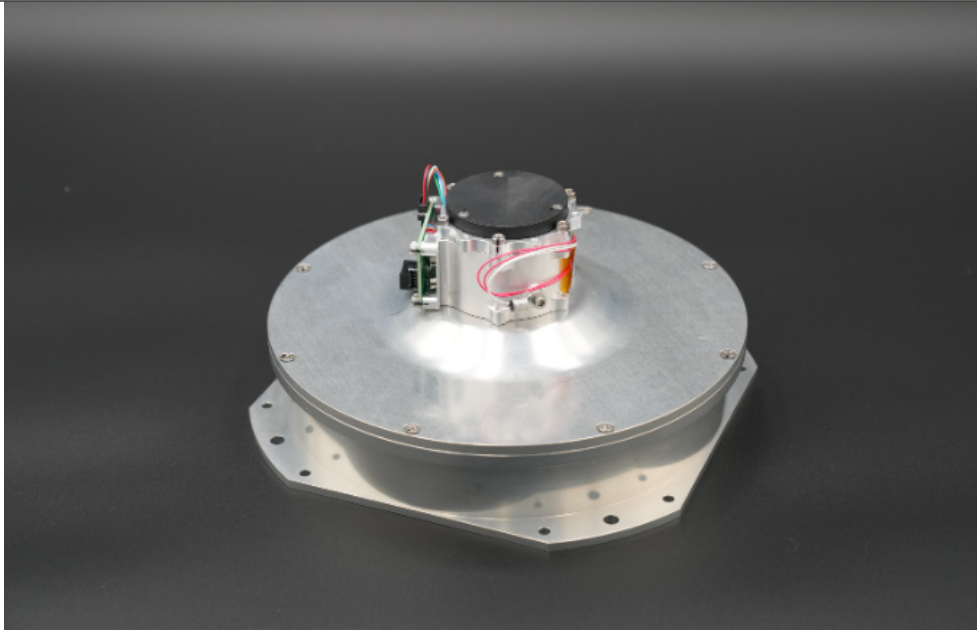
- Delta-V	200 m/s (with 200 kg payload mass)
- Orbit	Altitude : 400 km – 1000 km Circular Inclination : Low inclination to SSO

Pricing and Lead Time

- Unit Price	3.5 Million USD
- Lead Time	6 months



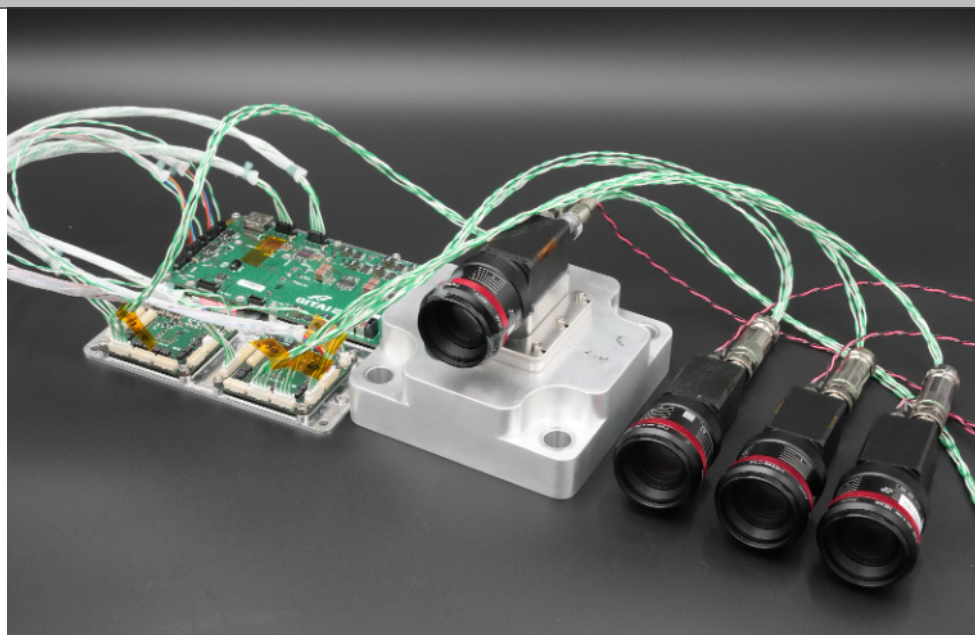
General



Specification

- Model Name	GRW-200
- Price	30 kUSD
- Dimensions L x W x H	200 mm x 200 mm x 95 mm Comes with 110 mm x 100 mm controller
- Mass	RW: 2.4 kg Driver: 0.3 kg
- Power Consumptions	Steady-state at nominal voltage < 9 W Peak at nominal voltage < 150 W"
- Supply Voltage	nominal: 28 V lower limit: 24 V upper limit: 48 V regulated/unregulated: regulated
- Data Interface	RS-422
- Design Life	7 Years
- Speed Range	7500 RPM / 28 V
- Angular Momentum Capacity	5.9 Nms / 28 V
- Torque Capability	300 mNm

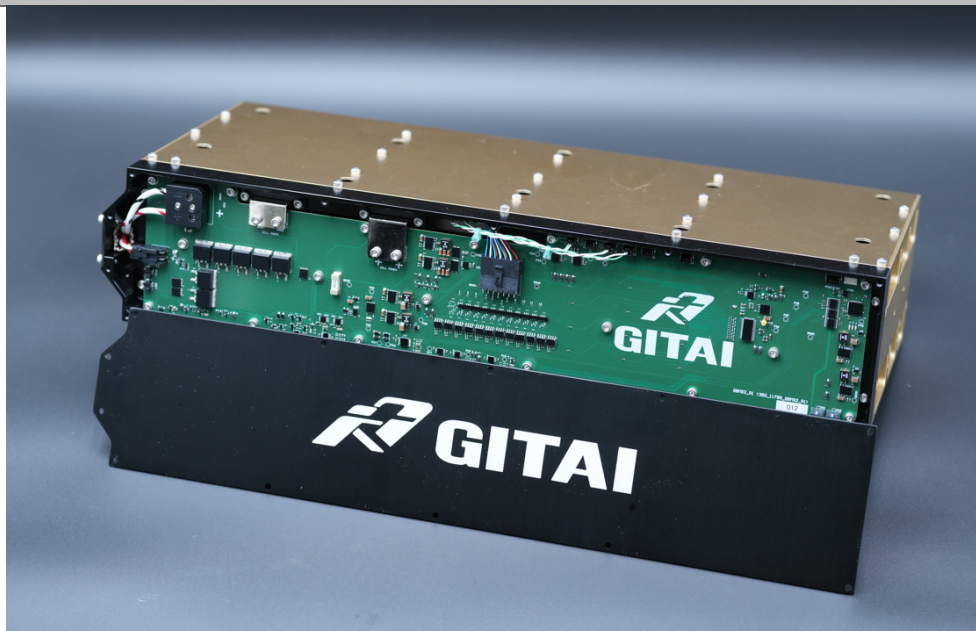
General



Specification

- Model Name	GSTT-1
- Price	12 kUSD
- Dimensions L x W x H	camera unit : 45 mm x 165 mm x 45 mm board : 150 mm x150 mm x10 mm
- Mass (baffle & star tracker)	Boards + heatsink = 0.5 kg camera + lens (1pc) = 0.225 kg
- DC Voltage	12 V
- Average power consumption	$15.0 + 3.0 * [\text{number of cameras}]$ W
- Interface	RS-422, Ethernet
- Design Life	7 Years
- Max Tracking Rate	2.0 °/SEC
- Update Rate	1 Hz
- Star Catalog	8819 stars

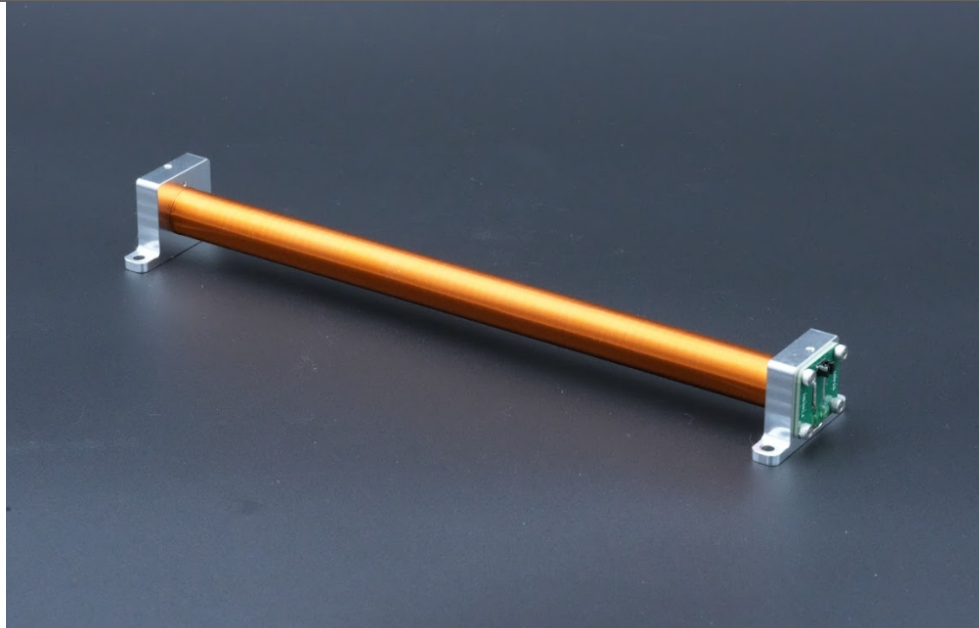
General



Specification

- Model Name	GBAT-600
- Price	10 kUSD
- Dimensions L x W x H	196 mm x 452 mm x 104.5 mm
- Mass	10.5 kg
- Output Voltage	40 V
- Capacity	15 Ah
- Design Life	7 Years
- Discharge Current	Maximum Continuous : 30 A Peak (5-sec) : 60 A
- Protection Features	Overcharge, Overdischarge, Overcurrent, Over/Under Temperature, Cell Balancing

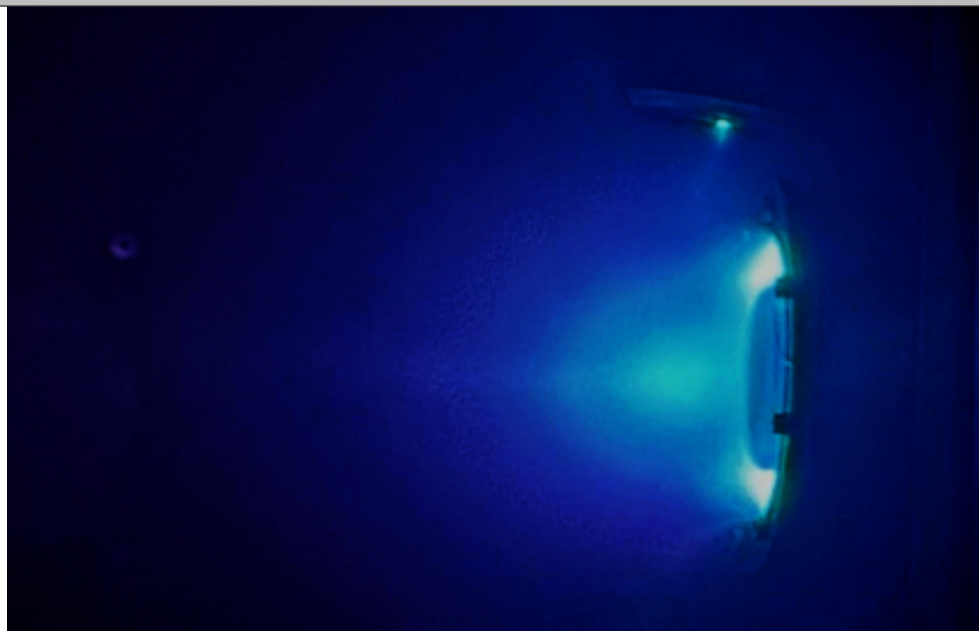
General



Specification

- Model Name	GMTQ-30
- Price	10 kUSD
- Dimensions L x W x H	275 mm x 52 mm x 32 mm
- Power	5 W
- Weight	0.5 kg
- Design Life	7 Years
- Moment	30 Am ²
- Current	200 mA

General



Specification

- Model Name	GEP-01
- Price	Please contact us.
- Power Consumptions	350 W
- Design Life	7 Years
- Thrust Force	15 mN
- Total Impulse	100 kN-s
- Isp	1000 s
- Delta-v	200 m/s for a 500 kg dry-mass satellite.
- Data Interface	RS-422

The GEP-01 includes thruster, tank, PPU, and will be commanded through RS-422 interface.