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CubeSat Aerospace

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as of 20 August 2026



CubeSat Aerospace

CubeSat Aerospace (also trading as CubeSat Space Solutions) is an Indian space technology company headquartered in Ahmedabad, Gujarat, with the tagline 'Small Payload, Big Science.' The company empowers educators, researchers, and commercial organizations to develop and deploy CubeSat satellites by providing a complete, vertically integrated service stack — from aerospace-grade structures and subsystem components through environmental testing, launch integration, and ground station setup. The CubeSat structure lineup covers the full standard range from 1U (100×100×113.5 mm, ~1.33 kg) through 6U (100×200×340.5 mm), all manufactured from aerospace-grade aluminum 6061-T6, certified to ISO 9001:2015, NASA GEVS, MIL-STD-810G, and ESA ECSS standards, and compatible with P-POD, ISIPOD, and other standard deployers. Subsystem offerings include the PyCubed Plus avionics board, 7.2V/6.4Ah battery board, 1W 1U solar panels, and communications boards. On the services side, CubeSat Aerospace provides vibration testing, TVAC testing, thermal cycling and bakeout campaigns, ground station design and setup, and launch coordination with global providers including SpaceX and ISRO. The STEM education program offers classroom-integrated satellite building curricula covering engineering, coding, and problem-solving for the next generation of space professionals.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

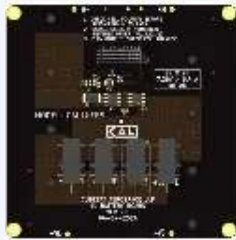
Environmental Testing

The company offers environmental testing services including thermal vacuum and vibration testing to ensure CubeSats meet high standards for space conditions.

Thermal-Vacuum (TVAC) Testing

The company offers Thermal-Vacuum (TVAC) Testing to evaluate CubeSat performance under extreme space conditions.

Product catalogue



CUBESAT AEROSPACE

1U Battery Board

The 1U Battery Board by CubeSat Aerospace is a compact, high-efficiency energy storage module designed for small satellite missions, supporting regulated power delivery and offerin

Battery Type	Li-ion (18650 cells or flat-pack pouch, configurable)
Nominal Voltage	3.7 V – 7.4 V (single or dual cell configuration)
Capacity Range	2600 mAh – 5200 mAh (standard configurations)
Charging Method	MPPT solar input or USB-C interface via avionics board
Protection Features	Overcharge, over-discharge protection; Short circuit and overcurrent protection; Thermal c
Monitoring	Integrated current sensor for telemetry; I ² C interface to avionics for real-time power dat
Form Factor	PC-104 tray compatible; optimized for 1U CubeSats

price on request



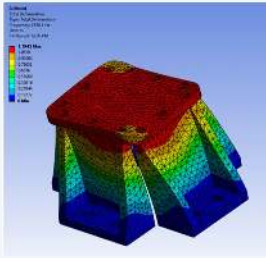
CUBESAT AEROSPACE

1U CubeSat Structure

An aerospace-grade 1U CubeSat structure designed for durability, easy integration, and industry compliance, supporting major deployers and subsystems for research and commercial mi

Dimensions	100mm × 100mm × 113.5mm
Weight	~1.33 kg
Material	Aerospace-grade aluminum (6061-T6 or equivalent)
Rail System	Anodized aluminum for reduced friction during deployment
Structural Features	Corner fasteners, precision-aligned mounting holes
Thermal Management	Optional thermal coating available
Compliance	Meets CubeSat Design Specification (CDS) standards

price on request



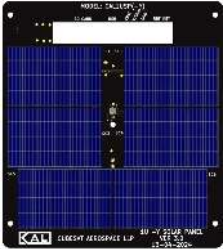
CUBESAT AEROSPACE

1U CubeSat Vibration Shaker Test Jig

The 1U CubeSat Vibration Shaker Test Jig is a precision mounting fixture designed for securing 1U CubeSats during sine, random, and shock vibration tests to qualify them for launch

Supported CubeSat Size	1U (100 mm × 100 mm × 113.5 mm)
Material	CNC-machined Aluminum and Steel (vibration-resistant)
Mounting System	Clamping or bolted rail interface with anti-slip surface
Mounting System	Multiple base slots for vibration table compatibility
Interface Type	Compatible with slip table and vertical shaker configurations
Mass	Approx. 2.5–3.0 kg
Compliance	Supports testing to NASA GEVS and MIL-STD-1540 standards

price on request



CUBESAT AEROSPACE

1U Solar Panels

The 1U Solar Panels from CubeSat Aerospace are high-efficiency power generation modules designed for small satellites, integrating solar cells, magnetic torquers, and sun sensors i

Panel Type	Custom PCB-based solar panel
Solar Cells	Mono-crystalline high-efficiency cells
Output Voltage	11.5 V (regulated via avionics board)
Power Output	Up to 1 W per panel (depending on illumination)
Mounting Faces	X+, X-, Y+, Y-, Z+, Z- (6 panels for full 1U coverage)
Connectors	10-pin FFC connector for each panel
Integrated Components	Thin-film magnetic torquer coil (1 per panel)

price on request



CUBESAT AEROSPACE

CubeSat Aerospace Satellite Structures (1U–6U)

Aerospace-grade aluminum 6061-T6 CubeSat structures from 1U to 6U — certified to ISO 9001:2015, NASA GEVS, MIL-STD-810G, ESA ECSS; P-POD/ISIPOD compatible.

1U dimensions	100 × 100 × 113.5 mm
1U mass	~1.33 kg
1.5U dimensions	100 × 100 × 170.25 mm
2U dimensions	100 × 100 × 227 mm
3U dimensions	100 × 100 × 340.5 mm
3U mass	~4.0 kg incl. payload
6U dimensions	100 × 200 × 340.5 mm

price on request



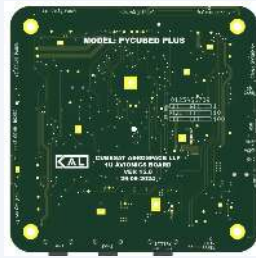
CUBESAT AEROSPACE

CubeSat Transporter

The CubeSat Transporter by CubeSat Aerospace is a rugged, reusable container designed to protect CubeSats during storage, shipping, and handling, accommodating 1U to 3U structures

Supported Sizes	1U, 1.5U, 2U, and 3U CubeSats (interchangeable inserts)
Outer Dimensions	Approx. 250 mm × 200 mm × 200 mm (for 1U configuration)
Material	Impact-resistant polymer enclosure with reinforced edges
Interior Lining	Precision-cut anti-static foam inserts
Interior Lining	Custom slots for trays, fasteners, and tools
Shock Absorption	Built-in vibration-dampening base pads
Closure	Dual locking latches with O-ring sealed lid

price on request



CUBESAT AEROSPACE

PyCubed Plus–based Avionics Board

The PyCubed Plus–based Avionics Board by CubeSat Aerospace is a compact, flight-ready control system designed for 1U–3U CubeSats, integrating essential subsystems like power manage

Processor	STM32F765 ARM Cortex-M7, 216 MHz
Memory	4 MB MRAM (non-volatile, radiation-tolerant)
Memory	microSD card slot for data logging
Sensors	9-axis IMU (accelerometer, gyroscope, magnetometer)
Sensors	Sun sensor interface via solar panel FFC
Timekeeping	Real-Time Clock (RTC) with battery backup
Power Management	MPPT-based solar charger

price on request

Contact CubeSat Aerospace

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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