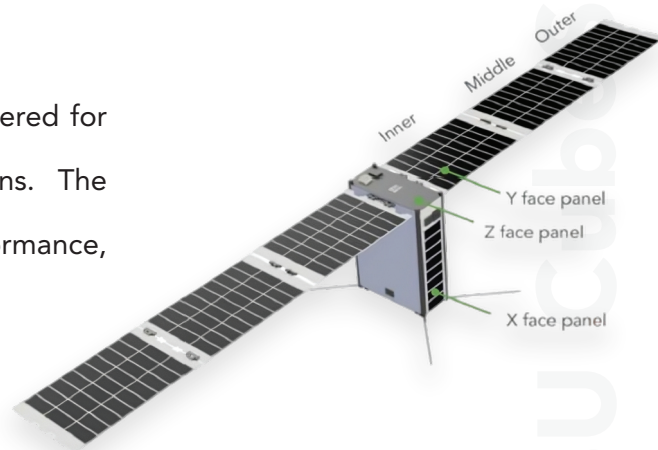


8U CubeSat Datasheet

The Azista 8U CubeSat bus is a modular platform engineered for rapid deployment across diverse nanosatellite missions. The platform provides an optimized balance between performance, reliability, and adaptability while maintaining a cost-effective design for both LEO and experimental mission environments.



CubeSat 8U Specifications

Bus Mass	8 to 10 kg (configuration dependent)
Peak Power Generation	131 W (Deployable); 19.4 W (Body Mounted)
Available Payload Volume	3U
Available Payload Power	12 W (Body Mounted); 100W (Deployable)
Available Power Supply for Payload	Regulated 3.3V DC, 5V DC and 12V DC
Telemetry Data Rate	Up to 125 kbps (S-Band)
Payload Data Rate	Up to 1 Gbps (X-Band)
Payload Control Interfaces	UART, CAN, SPI, I2C, RS-485
Payload Data Interfaces	I2C / UART / RS-485 / SPI / CAN / MIPI CSI-2
Storage	Up to 2 TB
Pointing Accuracy	<0.1° (configuration dependent)
Mission Life	3 Years
Orbit	500 Km
Lead Time	> 14 Months

Azista Services

Azista Leverages its end-to-end expertise in satellite development and operations.

- Mission Design and Analysis
- End-End services ranging from Satellite Design to Delivery in Space
- Launch Campaign & Support
- Deployers
- LEOPS
- Mission Operations & Support

Software

Complete software suite for CubeSat development and operations

- Subsystems Interface Library Modules
- Mission Support Library Module
- ADCS Algorithms
- CCSDS Library
- Encryption Engine

AIT Services

The state-of-the-art, ISRO-certified facility offers comprehensive end-to-end services for satellite Manufacturing, Assembly, Integration and Testing, with proven heritage in supporting multiple commercial, ISRO & POEM missions.

- Satellite Bus & Payload Integration & Support
- Qualification of Space Hardware
- Transportation Containers



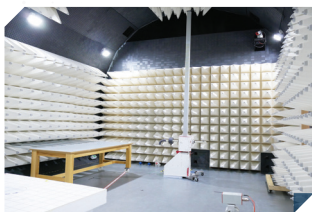
Infrastructure: Clean Rooms



Vibration Shakers



Thermovac Chambers



Semi-Anechoic Chamber



ADCS Test Setup



Climatic Chamber



Azista Industries Private Limited (AIPL)

Corporate Office: Sy No. 83/1, 19th & 20th floor, Hetero Tower, Commerzone Madhapur, Hyderabad, India - 500 081

☎ +91 89779 27765 🌐 www.azista.space 📧 contactus@azistaindustries.com



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