

NEWSPACE MARKET · COMPANY PROFILE



Rapid Cubes GmbH

Germany · founded 2021 · rapidcubes.space

7

PRODUCTS

newspacemarket.com/companies/rapid-cubes/

as of 20 August 2026

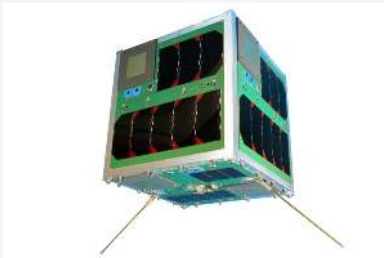
A large, faint, stylized circular graphic in the bottom right corner, consisting of a central circle and two concentric arcs, resembling a stylized 'C' or a camera lens.

Rapid Cubes GmbH

Rapid Cubes GmbH is a spin-off from the Chair of Space Technology at Technische Universität Berlin, founded in 2021 by Walter Frese and Dr. Zizung Yoon. The company's mission is to provide fast and reliable nanosatellite technology, systems, and missions to accelerate its customers' business and science goals. Built on a combined 30+ years of satellite engineering experience, its founders were core members of the TU Berlin team that developed and deployed several nanosatellite missions. The company's product heritage traces directly to the TUBiX10 nanosatellite platform, licensed from TU Berlin. This platform has proven in-orbit heritage through the S-NET mission (launched February 2018, 4 satellites demonstrating inter-satellite communication) and the SALSAT mission (2020). Rapid Cubes has since developed an expanded family of platforms from the 8 kg RapidCube-6 to the 100 kg RapidCube-100. Rapid Cubes is actively engaged in several joint missions with TU Berlin, including OOV-CUBE (launched on Ariane-6's inaugural flight in July 2024), AIOTY-CUBE, and AITHER — demonstrating capabilities spanning IoT, Earth observation, AI inference, inter-satellite links, and advanced solar cell technology. Beyond hardware, the company provides comprehensive mission support including payload integration, functional testing, launch campaign coordination, and payload data delivery.

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.

Product catalogue



RAPID CUBES GMBH

RapidCube-10

A 10 kg class CubeSat platform combining high-performance capabilities, flexibility, and robust features for modern NewSpace missions.

Mass class	10 kg class
Flight heritage	Flight proven in multiple projects since 2018
Upcoming mission	00V CUBE, planned launch Q2 2024

price on request



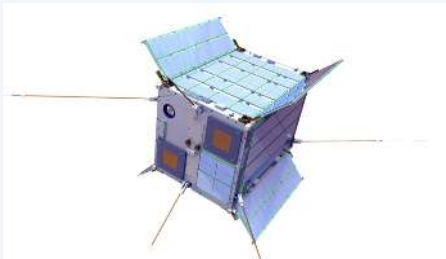
RAPID CUBES GMBH

RapidCube-100

RapidCube-100 is a cutting-edge 100 kg class CubeSat platform designed for high-performance NewSpace missions and services.

Mass Class	100 kg
Dimensions (stowed)	~86 × 86 × 18 cm
Payload Mass	up to 30 kg
Payload Power (per channel)	100 W avg
Payload Power Channels	8
Attitude Pointing Accuracy	±0.5°
Redundancy	Triple Modular Redundancy (TMR)

price on request



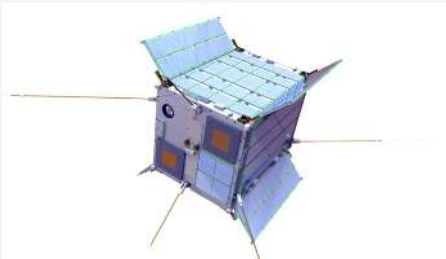
RAPID CUBES GMBH

RapidCube-20

12U/16U CubeSat platform (15–25 kg) with Triple Modular Redundancy, multi-band communications, and high payload flexibility for scientific and commercial missions.

Mass Class	15–25 kg
Form Factor	12U/16U CubeSat
Dimensions	22 × 22 × 36–44 cm
Payload Mass	5–10 kg
Payload Power (Average)	17–32 W
Payload Power (Single Channel Peak)	up to 150 W
Bus Voltage	12 V / 24 V

price on request



RAPID CUBES GMBH

RapidCube-20 CubeSat Bus

16U, 20 kg CubeSat bus with failure-tolerant architecture supporting 5–10 kg payloads, S/X-band links, and SSO IOD/IOV missions.

CubeSat class	20 kg
Size (stowed)	22 x 22 x 44 cm (16U)
Bus architecture	Failure-tolerant
Payload mass	5–10 kg
Payload volume	5U – 11U
Average payload power	15–30 W
Attitude determination	< ±1° (option: < ±0.1°)

price on request



RAPID CUBES GMBH

RapidCube-50

RapidCube-50 is a 50 kg class CubeSat platform offering high payload capacity, triple modular redundancy, and precision attitude control for scientific, commercial, and NewSpace missions.

Failure tolerance	Triple Modular Redundancy (TMR) achieved with 3 processor cores
Available Payload Mass	Up to 20 kg
Available Payload Volume	Up to 36 x 18.5 x 44 cm ³
Average Payload Power Available	Average (polar orbit, LTAN 12 am): 30 W (Si cells), 50 W (GaAs cells); peak per channel: 6
Attitude Determination	$< \pm 0.1^\circ$ (MEMS sun sensor, magnetometer, gyro, star tracker)
Attitude Pointing	$< \pm 0.5^\circ$ (3-axis by reaction wheels, magnetorquer)
Telemetry and Telecommand	2.0 / 2.2 GHz (S-band, FDD), up to 100 kbps (UL), up to 2 Mbps (DL)

price on request



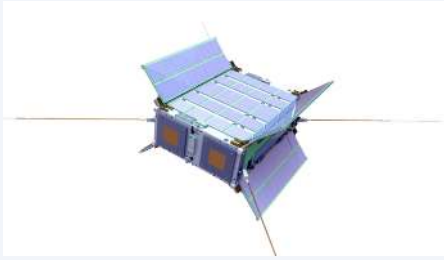
RAPID CUBES GMBH

RapidCube-6

Compact 6U CubeSat bus (8 kg class) for IoT, in-orbit demonstration, Earth observation, and inter-satellite communication missions.

Mass Class	8 kg
Dimensions	22 × 10 × 36 cm
Payload Mass	~4 kg
Payload Power	10–20 W
TM/TC Band	S-band
Downlink Data Rate (S-band)	2 Mbps
High-Speed Data Link	X-band, up to 100 Mbps

price on request



RAPID CUBES GMBH

RapidCube-6 CubeSat Bus

6U CubeSat bus platform with failure-tolerant architecture, S/X-band links, and configurable attitude control for LEO missions up to 650 km.

CubeSat class	8 kg
Size (stowed)	22 x 10 x 36 cm (6U) / 22 x 10 x 45 cm (6U XL)
Bus architecture	Failure-tolerant
Payload mass	~4 kg
Payload volume	2U – 5U
Payload power	10 W (Si) / 20 W (GaAs) per channel, peak 20/30 W, 12 V bus
Attitude determination	< $\pm 1^\circ$ (MEMS sun sensor, magnetometer, gyro)

price on request

Contact Rapid Cubes GmbH

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.

<https://newspacemarket.com/companies/rapid-cubes/>

<https://rapidcubes.space>

© 2026 Rapid Cubes GmbH — product data. Document compiled by NewSpace Market from the live catalogue on 20 August 2026. May be shared freely.