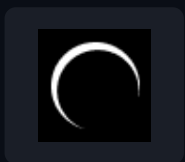


NEWSPACE MARKET · COMPANY PROFILE



HEX20

India · hex20.space

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PRODUCTS

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SERVICES

newspacemarket.com/companies/hex20/

as of 26 August 2026



HEX20

HEX20 is an international small satellite company headquartered in Thiruvananthapuram, India with offices in the USA, UAE, and Taiwan. The company develops cost-effective, flight-proven small satellite systems designed to bring space access to a wider range of organizations — from research institutions to defense agencies. HEX20's product portfolio includes modular, scalable small satellite platforms (payload-agnostic with reconfigurable architecture), FlatSat hardware-in-the-loop validation systems for pre-flight testing, a compact radiation-tolerant star tracker compatible with third-party ADCS units, and a range of satellite subsystems optimized for reliability in orbit. Beyond hardware, HEX20 offers mission-as-a-service, rideshare/payload hosting, ground system services, and accelerated space training programmes (XORBIT Program) for universities. The company's technologies have fueled missions worldwide, with collaborations spanning agencies, universities, and commercial pioneers. HEX20 is involved in UAE asteroid exploration and Earth observation missions.

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

Data Services through Partners

HEX20 ensures seamless data availability for customers through partnerships with AWS, KSAT, and Leafspace.

Mission Control Centre (MCC) Services

HEX20's Ground Station functions as a Mission Control Centre, providing end-to-end spacecraft operations, real-time monitoring, and command execution.

Payload Host Services

HEX20 offers payload hosting for various payloads, including integration, in-orbit power commissioning, and preliminary data downlink, with availability for 2026 and 2027.

Spacecraft Registration and Frequency License Filing

HEX20 handles spacecraft registration and frequency license filing for customers, simplifying the regulatory process for their missions.

The XORBIT Program – Accelerated Space programme for Universities

The XORBIT Program provides hands-on training for universities to define, design, assemble, integrate, and validate real subsystems of a functional 3U CubeSat.

Product catalogue



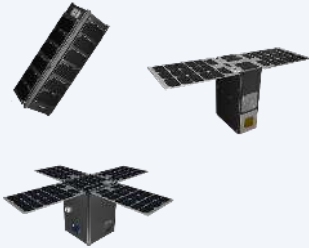
HEX20

AX Electrical Power System (EPS)

The HEX20 AX Electrical Power System (EPS) is an EPS with 4 MPPT channels and a nominal bus voltage of 16.8V.

Bus Voltage (Nominal)	16.8 V
MPPT Channels	4
Input Voltage (Solar Panel)	>=18 V
Output Voltage	16.8 V
Maximum Output Current	3 A
Output Channel 1	3.3V at 3A
Output Channel 2	1 x 5V – 6V at 3A

price on request



HEX20

AX Platform Configurator

The AX Platform Configurator allows users to select platform and subsystem options for HEX20's satellite platforms, with live updates to the ROM cost.

price on request



HEX20

AX Satellite Platform Family (AX-03/06/12)

Flight-proven CubeSat bus family in 3U/4U, 6U/8U, and 12U/16U sizes — SmartFusion2 ARM Cortex-M3 OBC, CCSDS-compliant comms, 48W payload power.

Ax-03	3U/4U, 2U payload volume, UHF/S-band
Ax-06	6U/8U, 5U payload volume, UHF/X-band/S-band optional
Ax-12	12U/16U, 10U payload volume, UHF/X-band/K-band
OBC	SmartFusion2 (ARM Cortex-M3), PolarFire optional on AX-12
Payload power	48 W (all variants)
Communications compliance	CCSDS

price on request



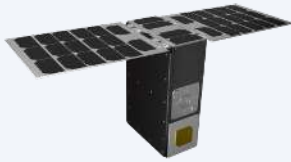
HEX20

AX-03

The AX-03 is a 3U CubeSat platform preconfigured for multiple applications, assimilating flight-proven subsystems.

Structural Dimensions	100 mm * 100 mm * 340.5 mm
Communication	UHF, S-BAND, CCSDS COMPLIANT
Interfaces	UART, RS232, RS422, SPI, CAN
Data Storage	16GB
Available Payload Mass	2KG
OBC	SMART FUSION 2, ARM CORTEX M3
Power Buses	3.3 V, 5 V, CUSTOMIZABLE 5–12 V + BATTERY

price on request



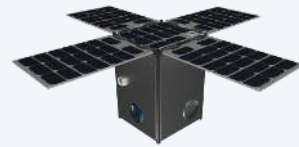
HEX20

AX-06

The AX-06 is a 6U satellite platform optimized for general-purpose missions with balanced power and payload capacity.

Structural Dimensions	100 mm * 226.3 mm * 366 mm
Communication	UHF, X-BAND, S-BAND (OPTIONAL), CCSDS COMPLIANT
Interfaces	UART, RS232, RS422, SPI, CAN
Data Storage	16GB
OBC	SMARTFUSION2, ARM CORTEX M3
Power Buses	3.3 V, 5 V, CUSTOMIZABLE 5–12 V + BATTERY
Raw Payload Volume	3U

price on request



HEX20

AX-12

The AX-12 is a 12U satellite platform optimized for general-purpose missions with balanced power and payload capacity.

Structural Dimensions	226.3 mm * 226.3 mm * 226.3 mm
Communication	UHF, X-Band, K-Band
Interfaces	UART, RS232, RS422, SPI, CAN
Data Storage	64GB
Available Payload Mass	12KG
OBC	SMARTFUSION2, ARM CORTEX M3 / POLARFIRE
OBC Power Buses	3.3 V, 5 V, CUSTOMIZABLE 6–12 V + BATTERY

price on request



HEX20

DINK-N MicroSat Series

Modular, scalable, reconfigurable microsatellite platform meeting defense standards — POLAR FIRE OBC, multi-band communications (UHF, X-band, S-band, K-band), 100W payload power.

OBC	POLAR FIRE
Power buses	3.3 V, 5 V, customizable 6–28V
Communication bands	UHF, X-band, S-band (optional), K-band
Payload power	100 W
Architecture	Modular, scalable, reconfigurable
Standards	Meets defense standards

price on request



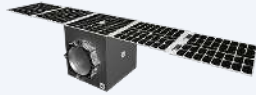
HEX20

FlatSat Ground Test Rig

Ground-based hardware-in-the-loop test rig for validating satellite payloads and subsystems before flight — 6 PC-104 slots, ground-station simulator included.

Pc-104 slots	6 (CDH, EPS, COMMs, Interface Card, 2 spares)
Bus-probing connectors	2
Antenna pass-throughs	2x SMA-SMA with 30 dB attenuator (VHF/UHF)
Battery boards	1 (4x battery holder), extendable to 2

price on request



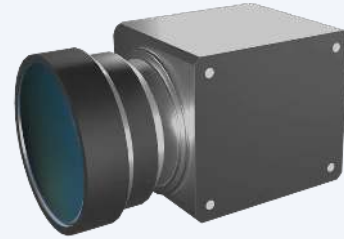
HEX20

NX-50

The NX-50 is a 3U CubeSat platform preconfigured for multiple applications, assimilating flight-proven subsystems.

Size	3U CubeSat
Communication	UHF, X-BAND, S-BAND (OPTIONAL), K-BAND
Power Buses	3.3 V, 5 V, CUSTOMIZABLE 6- 28V
Payload Power	100 W

price on request



HEX20

Star Tracker

Compact radiation-tolerant star tracker for micro/small satellites — ~16 arcsecond pointing accuracy, star detection to magnitude 6, 325g mass, compatible with any third-party ADCS

Field of view	10°x10°
Update rate	5 Hz
Dimensions	95x85x85 mm
Star detection	Up to magnitude 6.0
Pointing accuracy	~16 arcseconds
Sun exclusion angle	30°
Interface	RS422 & LVDS

TRL 5

price on request

Contact HEX20

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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<https://www.hex20.space>