

COSPAR 2-LUNAR ORBITER

- This COSPAR-2 mission is a pathfinder to stimulate demand for affordable lunar satellite missions.
- The initiative aims to leverage the combined technical prowess and regional networks of the two pioneering companies [ispace](#) and [HEX20](#).
- COSPAR-2 will make measurements of energetic protons and electrons in lunar orbit during storm and non-storm times providing critical gap-filling space weather data that will enable future human lunar exploration.
- COSPAR-2 will also provide PNT (position-navigation and timing) from lunar orbit demonstrating PNT in a GPS devoid environment.

ispace | HEX20

LUNAR MISSION

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INDIA | AUSTRALIA | TAIWAN | UAE | USA

HEX20

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SATELLITE PLATFORM



Payload Volume 18U



Payload Mass Up to 20kg



Average Payload Power Up to 50W



Payload Gross Data Rate 100 Mbps



Available Power Buses Customizable
5V- 24V(Regulated)



Interfaces: Ethernet, UART, LVDS,
RS232, RS422, SPI, CAN



Integration: FLATSAT with SDK,
Integration Services



Pointing Accuracy
30 arc second over 3 axis



Launch & Operations Compatible with multiple
Launch and Ground Station Providers

PRODUCT CANVAS

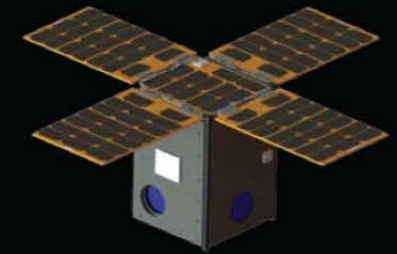
HEX20 aims to provide complete mission solutions based on our small satellite platforms. We specialize in developing cutting-edge, scalable platforms for academic, scientific, commercial; and defence applications. Our products are derived from flight heritage programs and hence come with a proven assurance for successful mission completion.



AX-03



AX-06



AX-12

S/C Dimensions (approximate)	3/4U	6/8U	12/16U
Power	25-50 W (Peak), 50-100 WH Battery	25-75 W (Peak), 50-100 WH Battery	50-125 W (Peak), 100-200 WH Battery
Communication	UHF, S-Band Tx/Rx,	UHF, S-Band Tx/Rx, X-Band	UHF ,X-Band, S-band, K-band
OBC & Interfaces	SmartFusion 2 OBC - I ² C, UART, RS 232, RS 422, SPI, LVDS, CAN, Custom FPGA interfaces*	SmartFusion 2/PolarFire OBC - I ² C, UART, RS 232, RS 422, SPI, LVDS, CAN Custom FPGA interfaces*	PolarFire OBC- I ² C, UART, RS 232, RS 422, SPI, LVDS, CAN Custom FPGA interfaces*
Buses(V)	8.4V (Battery), Regulated -12V, 6V, 3.3V, Customizable for payloads*	8.4V/14.8V (Battery), 15V, 12V, 6V, 3.3V, Customizable for payloads*	14.8V (Battery), 15V, 12V, 6V, 3.3V, Customizable for payloads*
Pointing Accuracy	<0. 4° in 3 axis	30 arc seconds in 3 Axis	30 arc seconds in 3 Axis
Payload Space	1.5U	4U	10U