

NEWSPACE MARKET · COMPANY PROFILE



Hongqing Technology (鸿擎 科技)

China · founded 2021 · hongqing.tech

7

PRODUCTS

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as of 24 August 2026



Hongqing Technology (鸿擎科技)

Beijing Blue Arrow Hongqing Technology Co., Ltd. (鸿擎科技) is China's only satellite constellation solution provider with rocket-satellite synergistic capabilities, dedicated to building low-cost, high-reliability low-Earth orbit satellite constellations through independent innovation. Founded in December 2021, the company operates under the vision of 'Space Tech for You & I,' aiming to make space technology universally beneficial to humanity. Hongqing Technology delivers end-to-end satellite constellation solutions spanning satellite design, manufacturing, launch coordination, and on-orbit operations. Working in deep collaboration with Blue Arrow Aerospace (LandSpace), the company has achieved industry-leading efficiencies including a 50% reduction in operator personnel, a 40% increase in launch efficiency, and an 80% reduction in launch facility labor hours. In December 2023, the company successfully launched its first two Honghu satellites into orbit. The company's product portfolio includes next-generation LEO broadband communication satellites, intelligent remote sensing satellites (optical, SAR, infrared), and open-platform scientific experimental satellites. Its proprietary subsystems — the Jinwu electric propulsion system, Chiyu solar energy system, and Baize integrated electronics system — are developed entirely in-house and have been validated on orbit with a 100% ignition success rate across 4,089 ignition cycles. Headquartered in Beijing's Economic and Technological Development Zone, Hongqing Technology maintains R&D centers in Shanghai, Xi'an, and Shenzhen, along with an intelligent manufacturing pilot base in Xiong'an. The company has received recognition including Forbes China 100 High-Potential Startups (2024), Venture50 Hard Technology Top 50 (2

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Product catalogue



HONGQING TECHNOLOGY (鸿擎科技)

Baize Integrated Electronics System

The Baize Integrated Electronics System is Hongqing Technology onboard satellite avionics platform, serving as the mission commander for all satellite operations. It integrates att

Functions	Attitude control, power management, thermal control, telemetry/telecommand, health monitor
Architecture	Highly integrated single-board avionics platform
Software	Advanced software architecture with in-orbit reconfiguration support
Health monitoring	Autonomous anomaly detection and corrective action
In-orbit reconfiguration	Supported
Integration level	High-integration fusion design

price on request



HONGQING TECHNOLOGY (鸿擎科技)

Chiyu Solar Energy System

The Chiyu Solar Energy System is Hongqing Technology high-performance solar wing product line designed for LEO satellite platforms. It features a high deployment-to-storage ratio e

Type	Deployable solar wing / solar array
Configurations	Single-wing, dual-wing
Power output range	1,000 W - 8,000 W
Deployment-to-storage ratio	High (optimized for compact launch stowage)
Power-to-weight ratio	High (optimized for LEO mass constraints)
Target orbit	Low Earth Orbit (LEO)

price on request



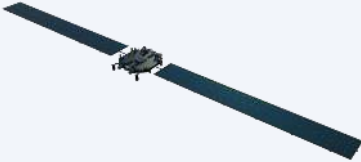
HONGQING TECHNOLOGY (鸿擎科技)

Jinwu Electric Propulsion System

The Jinwu Electric Propulsion System is Hongqing Technology next-generation argon-fueled electric propulsion platform, developed entirely in-house for commercial LEO satellite appl

Propellant	Argon (Ar)
In-orbit ignition cycles	4,089 (verified as of June 8, 2026)
Ignition success rate	100%
Cumulative orbital maneuver altitude	1,434 km
Supply module - pressure regulation ratio	>300:1
Supply module - control method	PID closed-loop
Supply module - pressure response time	<30 s

price on request

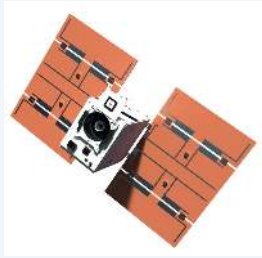


HONGQING TECHNOLOGY (鸿擎科技)

Next-Generation Argon Propellant Electric Propulsion System

Hongqing Technology's next-generation electric propulsion system utilizes argon propellant, designed for low-cost and high-reliability satellite operations through iterative innova

price on request



HONGQING TECHNOLOGY (鸿擎科技)

Next-Generation Intelligent Remote Sensing Satellite

Hongqing Technology next-generation intelligent remote sensing satellite represents a paradigm shift from traditional sky sensing and ground computing to sky computing and sky appl

Orbit	Low Earth Orbit (LEO)
Onboard ai computing power	>=200 TOPS @ INT8 per satellite node
Laser inter-satellite link speed	>=100 Gbps
Optical (panchromatic) resolution	0.5 m, 1 m
SAR resolution	0.5 m, 1 m
Sensing modalities	Optical, SAR, Infrared
Processing architecture	Onboard AI (sky computing)

price on request



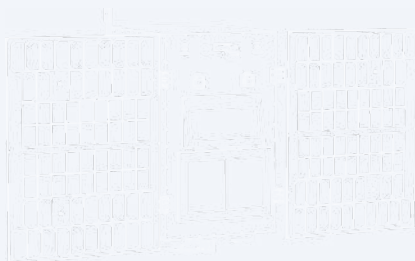
HONGQING TECHNOLOGY (鸿擎科技)

Next-Generation LEO Broadband Communication Satellite

Hongqing Technology next-generation low-Earth orbit broadband communication satellite is built on a self-developed low-cost, high-reliability, high-performance satellite platform.

Orbit	Low Earth Orbit (LEO)
Architecture	Integrated flat-panel antenna-platform design
Communication links	Inter-satellite links, satellite-to-ground feeder links, satellite-to-user terminal links
Direct-to-phone	Supported (commercial smartphones, no special hardware required)
Services	HD voice, instant messaging, email, broadband data
Launch configuration	Multi-satellite stacking optimized via rocket-satellite co-design
Operator personnel reduction	50%

price on request



HONGQING TECHNOLOGY (鸿擎科技)

Scientific Experimental Satellite

Hongqing Technology scientific experimental satellite platform provides Space as a Service for global research institutions, universities, and scientific organizations. The platfor

Orbit	Low Earth Orbit (LEO)
Payload interface	Open, customizable for research experiments
Data interface	Standardized open interfaces for global research teams
Inter-satellite links	Supported for multi-satellite joint observation
Service model	Space as a Service (SaaS)
Program	Olive Leaf Program

price on request

Contact Hongqing Technology (鸿擎科技)

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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