

NEWSPACE MARKET · COMPANY PROFILE



OrbAstro

founded 2017 · orbastro.com

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PRODUCTS

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as of 26 August 2026

OrbAstro

OrbAstro (Orbital Astronautics Ltd.) is a UK and New Zealand-based small satellite platform manufacturer founded in 2017 by Ash Dove-Jay and Vinoth Gurusamy, two of the founding employees of Oxford Space Systems. The company designs and builds the ORB-class family of satellite platforms — ORB-3, ORB-6, ORB-12, and ORB-16 — optimized for commercial downstream applications including Earth observation, communications, and technology demonstration. OrbAstro platforms feature Xilinx Ultrascale+ processing, LPDDR4 memory, electric propulsion, full ADCS with dual star-trackers, S-band transceivers, and optical communications as standard configurations. The company's mission is to compress the time and cost from business idea to revenue-generating satellite operations for commercial customers.

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



ORBAstro

ORB ESPA-Class Satellite Platform Family (ORB-0.1T / ORB-0.5T / ORB-1T)

OrbAstro's ESPA-class platform family spans quarter-plate to full-plate configurations: 30-78 kg bus, up to 1,000 kg payload capacity, 490 W-3.5 kW power, 25+ year LEO lifetime, fr

Orb-0.1t (quarter-plate)	Bus 30 kg dry/39 kg wet; Power 50 W (exp. 500 W); Payload ≤100 kg; 15" ESPA interface; £30
Orb-0.5t (half-plate)	Bus 36 kg dry/56 kg wet; Power 120 W (exp. 1.1 kW); Payload ≤500 kg; 15" ESPA interface; £
Orb-1t (full-plate)	Bus 78 kg dry/108 kg wet; Power 490 W (exp. 3.5 kW, 8 kW peak); Payload ≤1,000 kg; 24" ESP
Design life (LEO)	25+ years
Design life (MEO)	10 years
Design life (GEO)	20+ years
Operations service	£8,000 / month (all variants)

\$300 000



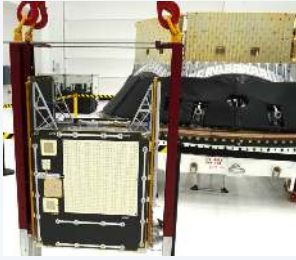
ORBAstro

ORB-3 — 3U CubeSat Satellite Platform

OrbAstro's ORB-3 is a flight-ready 3U CubeSat bus: up to 5 kg total, 3 kg payload capacity, 36 Wh battery, 5.5 W orbital-average solar power, 0.1° pointing accuracy, electric propu

Form factor	3U CubeSat
Total spacecraft mass	Up to 5 kg
Payload mass	Up to 3 kg
Payload volume	~2U (196 × 95 × 95 mm)
Battery capacity	36 Wh (upgradeable to 72 Wh)
Solar power (orbital average)	5.5 W
Payload power (orbital average)	3.5 Wh (upgradeable to 20 Wh)

\$60 000



ORBASTRO
ORB-6 — 6U CubeSat Satellite Platform

OrbAstro's ORB-6 is a 6U CubeSat bus: up to 10 kg total, 6.5 kg payload, 72 Wh battery, 12.5 W orbital-average solar, 0.1° pointing, electric propulsion, priced at £85,000.

Form factor	6U CubeSat
Total spacecraft mass	Up to 10 kg
Payload mass	Up to 6.5 kg
Payload volume	~5U
Battery capacity	72 Wh (upgradeable to 144 Wh, +£5,000)
Solar power (orbital average)	12.5 W (expandable to 43 W with deployable arrays, +£15,000)
Payload power (orbital average)	8 Wh (upgradeable to 43 Wh)

\$85 000

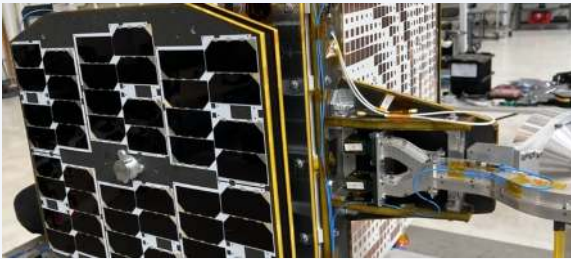


ORBASTRO
ORB-8 / ORB-16 — Mid-size Nanosatellite Platform

OrbAstro's ORB-8/ORB-16 are mid-size nanosatellite platforms: 5.2-7.9 kg bus mass, 9.8-27.1 kg payload capacity, 72 W solar, 144 Wh battery, Zynq Ultrascale+ OBC, LEO/MEO/GEO capab

Variants	ORB-8 (6.5U payload) and ORB-16 (16U payload)
Bus mass (wet)	ORB-8: 5.2 kg; ORB-16: 7.9 kg
Max payload mass	ORB-8: 9.8 kg; ORB-16: 27.1 kg
Max payload volume	ORB-8: 6.5U; ORB-16: 16U
Solar power generation	72 W (expandable to 168 W)
Battery capacity	144 Wh (ORB-8 expandable to 288 Wh; ORB-16 to 576 Wh)
Continuous payload power	14 W (upgradeable to 154 W)

\$350 000



ORBASTRO
OrbAstro Small Satellite Bus Platform

UK small satellite bus manufacturer developing platforms for Earth observation, technology demonstration, and constellation missions.

Focus	Small satellite bus manufacturing
Country	United Kingdom

price on request



ORBASTRO
OrbAstro Technologies

OrbAstro offers a suite of advanced technologies for satellites, including ultra-robust system architecture, high-powered payload hosting, high-throughput data architecture, and fi

Nanosatellite Peak Payload Power	2 kW
ESPA-class Satellite Peak Payload Power	8 kW
Nanosatellite Solar Generation Capacity	168 W
ESPA-class Satellite Solar Generation Capacity	3.7 kW
Nanosatellite Battery Storage	576 Wh
ESPA-class Satellite Battery Storage	1.8 kWh
Flight Computer RAM	4 GB LPDDR4

price on request



ORBASTRO

Our Infrastructure

OrbAstro offers a comprehensive space infrastructure including a 20,000sqft satellite factory, a global S-band & Ka-band ground station network, a petaFLOPS-scale data centre,

price on request

Contact OrbAstro

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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