

NEWSPACE MARKET · COMPANY PROFILE



Third Planet Orbital

United Kingdom · founded 2023 · thirdplanetorbital.com

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as of 20 August 2026

Third Planet Orbital

Third Planet Orbital (TPO) is a UK space technology company based in the East Midlands (Loughborough and Leicester), established to address gaps in the global space industry supply chain and to support the UK's strategic space ambitions. The company was founded by a team with multidisciplinary engineering experience spanning aerospace, automotive, motorsport, exploration and telecoms, including prior work on ESA Technology Research Programmes, BepiColombo, ExoMars Rover, MetOpSG, TechDemoSat-1 and Beagle-2. TPO's mission is to simplify time to mission success for small satellite developers by supplying reliable, repeatable building blocks: functionally standardised, flight- and test-proven satellite buses supplied 'off-the-shelf' (baseline 12U, scalable to 6U, 16U and 24U), and the TPOD (Third Planet Orbital Deployer) CubeSat deployer family engineered for low mass, fast integration and reduced total cost of ownership. Beyond hardware, TPO offers Space Engineering Services (requirements definition, technical requirement specifications and mission trade-off support) and FlatSat Rental, giving customers remote 'try-before-you-buy' access to representative satellite bus hardware-in-the-loop for payload design, development and testing before committing to a purchase. TPO's flight heritage includes team experience delivering sixteen 6U satellites into LEO since 2017 performing EO/RF reconnaissance, and current AIT work on a multi-payload 12U mission for Exotopic scheduled to launch in 2026.

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

Assembly, Integration, and Test (AIT)

Third Planet Orbital performs meticulous Assembly, Integration, and Test (AIT) for satellites, ensuring subsystems are checked, components mated, and rigorous tests conducted for optimal orbital performance.

Continued support for mission success

Third Planet Orbital provides continued support throughout a user's journey to mission success, leveraging its knowledge, experience, and extensive network.

FlatSat access / Hardware-In-the-Loop

Third Planet Orbital offers on-demand access to its FlatSat for Hardware-In-the-Loop testing, enabling economical design, development, and informed procurement.

Route to Space definition and technical analysis

Third Planet Orbital assists customers in defining their 'Route to Space' by analyzing technical needs and mission goals, leveraging interdisciplinary Classic-Space System Engineering.

Space Engineering Services

Third Planet Orbital offers Space Engineering Services, providing early access to knowledge and hardware to lower build costs and increase operational confidence for customers.

Product catalogue



THIRD PLANET ORBITAL

TPOD (Third Planet Orbital Deployer)

CubeSat deployer engineered for low mass, fast integration and reduced total cost of ownership, with a TPOD-12XL variant qualified for 12U-XL satellites up to 27.4 kg.

Variant	TPOD-12XL
Mass	<6.75 kg
Satellite Size	12U-XL (226.3±0.1 x 226.3±0.1 x 366±0.3 mm)
Volume Excursions	3 faces (40 mm), 1 face (15 mm), end face (60 mm)
Payload capacity	27.4 kg
Ejection Velocity	2.0 m/s
Interface	D-Sub (DE-9) Plug connector

price on request

[datasheet](#)

Contact Third Planet Orbital

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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