

INTERORBITAL SYSTEMS

END-TO-END SOLUTIONS FOR SPACE VENTURES

2021



CORE TEAM







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THE CURRENT PROBLEMS OF SPACE CARGO DELIVERY



THE INTERORBITAL SYSTEMS' SOLUTION:



<\$5k/kg, no minimum



Radically simplified

An end-to-end solution





NEPTUNE modular rocket series

In final stage of development

Most cost-effective launcher in the world Scalable to adapt to any payload Easy, quick, and cheap to build

Pre-built & custom satellites

<u>A market leader for CubeSats/TubeSats</u> Satellite kits assembled in hours, plus Constellation design and launch services 175+ Satellites on current launch manifest

Reconfigurable, mobile ground-stations

In development



NEPTUNE Modular Rocket Series

Rockets assembled with 2, 9, or 36 identical building blocks

Basic building block of the NEPTUNE rocket series:

 NEPTUNE Building Block

 1 or 2 composite engines
 Electronic controller

 Aluminum tanks of various lengths
 Regulated pressurant system

SIMPLE: Only 4 components per block
MODULAR: More blocks = Larger rocket = More payload
CHEAP: Blocks mass-produced; automated manufacturing
RELIABLE: No failure-prone, expensive systems



LAUNCHED ANYWHERE, ON-DEMAND

MANUFACTURING TIME (with automation):



CUTTING-EDGE TECHNOLOGIES: 3D Printing Composite Filament Winding

Decentralized Electronics



Mobile ocean-launch



Mobile land-launch



IOS = INTERORBITAL SYSTEMS D = Diameter (feet) L = Length (feet) LEO Altitude = 500 km LEO Inclination = 28 degrees

IOS Satellite Kits--over a decade of experience



CubeSat: 1.3kg, 4x4x4in International standard Kit + launch: starting at \$22,000, Academic

TubeSat: 0.75kg, 3.77x4.72in Interorbital Systems' standard Kit + launch: starting at \$12,400, Academic

From 1 to 24kg (1U to 24U) Can be assembled in 4 hours with no skills All the basic functions are included Customer needs only to design his or her own application

Interorbital can apply the same design elements and methodologies for rapid construction of larger custom satellites



Ground Stations - in developement

Notional ground-station

UHF, VHS, S-Band & upgradable to other frequencies on demand

Network leased by subscription or on a usage basis

Remotely accessible 24/7 via web interface

<\$15,000 per station

Shipped in a 10-ft cargo container



Planned initial network

Interorbital Systems'12-YEAR PLAN





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