

AT A GLANCE

The orbital compute race in one page

Every row of the tracker with its status and stated timeline. Statuses are defined on the previous page.

17

projects tracked

7

with hardware flown (in orbit, on the ISS or flown)

7

planned, announced or in development

3

FCC constellation filings

COMPANY	PROJECT	STATUS	TIMELINE AS STATED	SRC
ADA Space and Zhejiang Lab	Three-Body Computing Constellation (first 12 satellites)	IN ORBIT	14 May 2025	[1][2]
Starcloud	Starcloud-1	IN ORBIT	2 Nov 2025	[3][4][5]
Axiom Space	Orbital data center nodes (first two)	IN ORBIT	11 Jan 2026	[6]
Google	Project Suncatcher: first TPU prototype satellite	IN ORBIT	1 Oct 2026, 18:32 UTC (Transporter-18)	[7][8][9][10]
TakeMe2Space	MOI-1a in-orbit compute satellite	IN ORBIT	1 Oct 2026, 18:32 UTC (Transporter-18)	[10][11]
Axiom Space	Data Center Unit-1 (AxDCU-1) on the ISS	DEPLOYED	fall 2025 (deployed to the ISS)	[6]
Lonestar Data Holdings	Freedom lunar data center payload (IM-2)	FLOWN	27 Feb 2025 00:16 UTC (IM-2)	[12][13]
Crusoe	Crusoe Cloud on a Starcloud satellite	PLANNED	late 2026 (planned); GPU capacity from orbit by early 2027	[14]
Google	Project Suncatcher: two prototype satellites with cross-links	PLANNED	early 2027 (target)	[8][15]
Starcloud	Starcloud-2	PLANNED	later in 2026 (company, Mar 2026)	[5]
Aetherflux	Galactic Brain	ANNOUNCED	Q1 2027 (target)	[16]
NVIDIA	Vera Rubin Space-1 Module	ANNOUNCED	announced 16 Mar 2026 (GTC); availability not stated	[17]
SpaceX (with xAI)	Starmind AI1: first-generation AI compute satellite	ANNOUNCED	Q4 2027 (Musk, 24 Aug 2026); 'significant scale' in 2028	[18][19][20][21][22]
Sophia Space	TILE orbital computing modules	DEVELOPMENT	not public	[23]
Blue Origin	Project Sunrise	FILED	FCC application filed March 2026	[24]
Orbital	Orbital data center constellation (FCC request)	FILED	FCC request reported 30 Jun 2026; first launch not stated	[25]
SpaceX (with xAI)	Orbital data center constellation (FCC SAT-LOA-20260108-00016)	FILED	FCC application filed 30 Jan 2026	[26][27]

ANALYSIS • CYBERMAX (COUNTS FROM THE ROWS ABOVE)

- 7 of 17 tracked projects have flown hardware. 6 of those are one or two satellites, nodes, units or payloads (scale field); the in-orbit constellation with the most satellites launched is listed with its stated scale in its profile.
- The largest numbers in the tracker are requests, not hardware: the FCC filings state Blue Origin: up to 51,600 satellites in sun-synchronous orbits; Orbital: up to 100,000 satellites; 10 GW compute target; SpaceX (with xAI): up to 1,000,000 satellites, 500-2,000 km.
- Names that appear in the most rows (as company or partner): NVIDIA (3), Planet (3), Starcloud (3). See the partnership map.

PROJECT PROFILES

Every project, with its sources

ADA SPACE AND ZHEJIANG LAB

IN ORBIT

Three-Body Computing Constellation (first 12 satellites)

HARDWARE	on-board AI processors (per-satellite specs not in source)	TIMELINE	14 May 2025
CATEGORY	in-orbit constellation	VEHICLE	Long March 2D · Jiuquan
SCALE	12 satellites launched; 2,800 planned	FUNDING (PUBLIC)	not public
NORAD IDS	63982, 63983, 63984, 63985, 63986, 63987, 63988, 63989, 63990, 63991, 63992, 63993	LAUNCH STATUS	not public

China's first batch of computing satellites for a planned 2,800-satellite on-orbit computing constellation. ^{[1][2]}

- ^[1] SpaceNews, 2025-05-14: 12 satellites on a Long March 2D, led by ADA Space and Zhejiang Lab; 2,800-satellite constellation planned
- ^[2] CelesTrak SATCAT, 2026-09-30: SCS-01 A-M, NORAD 63982-63993, launched 2025-05-14 from Jiuquan

STARCLOUD · WITH NVIDIA

IN ORBIT

Starcloud-1

HARDWARE	1 NVIDIA H100 GPU	TIMELINE	2 Nov 2025
CATEGORY	in-orbit satellite	VEHICLE	SpaceX Falcon 9 · Bandwagon-4 rideshare
SCALE	1 satellite	FUNDING (PUBLIC)	\$170M Series A at a \$1.1B valuation (Mar 2026), led by Benchmark with EQT Ventures
NORAD IDS	66303	LAUNCH STATUS	not public

First NVIDIA H100 in orbit; Starcloud reports it trained a small language model and ran a version of Gemini in space (Dec 2025). ^{[3][4][5]}

- ^[3] Starcloud (starcloud.com), 2026-09-30: Launched November 2025 with an NVIDIA H100; first spacecraft to train a language model; NORAD 66303
- ^[4] CelesTrak SATCAT, 2026-09-30: STARCLOUD-1, 2025-248L, NORAD 66303, launched 2025-11-02
- ^[5] Via Satellite, 2026-03-30: \$170M Series A at \$1.1B valuation, Benchmark led with EQT Ventures

AXIOM SPACE · WITH KEPLER COMMUNICATIONS

IN ORBIT

Orbital data center nodes (first two)

HARDWARE	commercial off-the-shelf compute with 2.5 Gbps optical links	TIMELINE	11 Jan 2026
CATEGORY	hosted compute nodes	VEHICLE	SpaceX Falcon 9 · with the first tranche of Kepler's optical relay network
SCALE	2 nodes	FUNDING (PUBLIC)	not public
NORAD IDS	not public	LAUNCH STATUS	not public

Axiom's first two orbital data center nodes, launched with Kepler Communications' optical relay satellites. Which host satellites carry them is not public, so no NORAD IDs are listed. ^[6]

- ^[6] Axiom Space (axiomspace.com), 2026-09-30: First two ODC nodes launched to LEO on January 11, 2026 with the first tranche of Kepler's optical relay network