

STARLINK GROUP 4-5 MISSION



MISSION OVERVIEW

SpaceX is targeting Thursday, January 6 for a Falcon 9 launch of 49 **Starlink** satellites to low Earth orbit from Launch Complex 39A (LC-39A) at Kennedy Space Center in Florida. The instantaneous launch window is at 4:49 p.m. EST, or 21:49 UTC, and a backup opportunity is available on Friday, January 7 at 4:28 p.m. EST.

Falcon 9's first stage booster supporting this mission previously launched GPS III-4, GPS III-5, and Inspiration4. Following stage separation, Falcon 9's first stage will land on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic Ocean.

WEBCAST

[A live webcast of this mission](#) will begin about 15 minutes prior to liftoff.

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/).

MISSION PROFILE



MISSION TIMELINE (ALL TIMES APPROXIMATE)

COUNTDOWN

Hr/Min/Sec	Event
- 00:38:00	SpaceX Launch Director verifies go for propellant load
- 00:35:00	RP-1 (rocket grade kerosene) loading underway
- 00:35:00	1st stage LOX (liquid oxygen) loading underway
- 00:16:00	2nd stage LOX loading underway
- 00:07:00	Falcon 9 begins engine chill prior to launch
- 00:01:00	Command flight computer to begin final prelaunch checks
- 00:01:00	Propellant tank pressurization to flight pressure begins
- 00:00:45	SpaceX Launch Director verifies go for launch
- 00:00:03	Engine controller commands engine ignition sequence to start
- 00:00:00	Falcon 9 liftoff

LAUNCH, LANDING AND DEPLOYMENT

Hr/Min/Sec	Event
00:01:12	Max Q (moment of peak mechanical stress on the rocket)
00:02:32	1st stage main engine cutoff (MECO)
00:02:36	1st and 2nd stages separate
00:02:44	2nd stage engine starts
00:02:52	Fairing deployment
00:06:49	1st stage entry burn start
00:07:09	1st stage entry burn end
00:08:27	1st stage landing burn start
00:08:49	1st stage landing burn complete
00:08:50	2nd stage engine cutoff (SECO-1)
00:15:31	Starlink satellites deploy