

STARLINK GROUP 4-6 MISSION



MISSION OVERVIEW

SpaceX is targeting Tuesday, January 18 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 9:02 p.m. EST (02:02 UTC on January 19).

The booster supporting this mission previously launched GPS III-3, Turksat 5A, Transporter-2, and six Starlink missions. Following stage separation, SpaceX will land Falcon 9's first stage on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic Ocean. Each of Falcon 9's fairing halves previously supported one Starlink mission.

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)
00:02:35	1st and 2nd stages separate
00:02:42	2nd stage engine starts
00:02:52	Fairing deployment
00:06:47	1st stage entry burn start
00:07:07	1st stage entry burn complete
00:08:25	1st stage landing burn start
00:08:47	1st stage landing burn complete
00:08:50	2nd stage engine cutoff (SECO-1)
00:15:32	Starlink satellites deploy