

WEBCAST

A live webcast of this mission will begin about 15 minutes prior to liftoff.

PHOTOS

High-resolution photos will be posted at <u>flickr.com/spacex</u>.

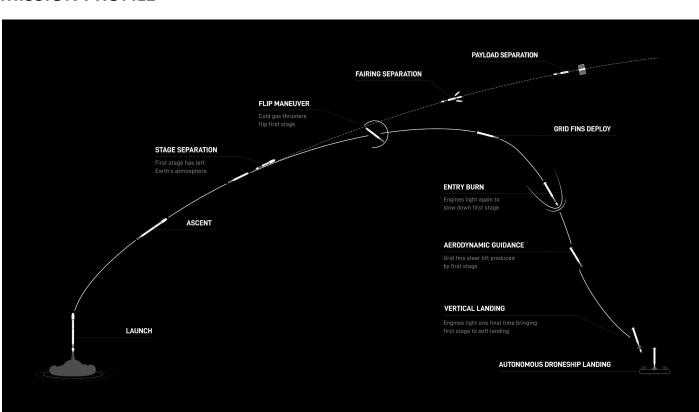
STARLINK GROUP 4-4 MISSION

MISSION OVERVIEW

SpaceX is targeting Saturday, December 18 for a Falcon 9 launch of 52 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. Liftoff is targeted for 4:41 a.m. PST (12:41 UTC), and a backup opportunity is available on Sunday, December 19 at 1:03 a.m. PST (9:03 UTC).

The Falcon 9 first stage booster supporting this mission previously launched Dragon's first crew demonstration mission, the RADARSAT Constellation Mission, SXM-7, and seven Starlink missions. Following stage separation, the first stage will return to Earth and land on the Of Course I Still Love You droneship stationed in the Pacific Ocean.

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
00:06:41	1st stage entry burn start
00:07:01	1st stage entry burn complete
00:08:19	1st stage landing burn start
00:08:41	1st stage landing burn complete
00:08:50	2nd stage engine cutoff (SECO-1)
00:15:36	Starlink satellites deploy