

STARLINK GROUP 6-12 MISSION



MISSION OVERVIEW

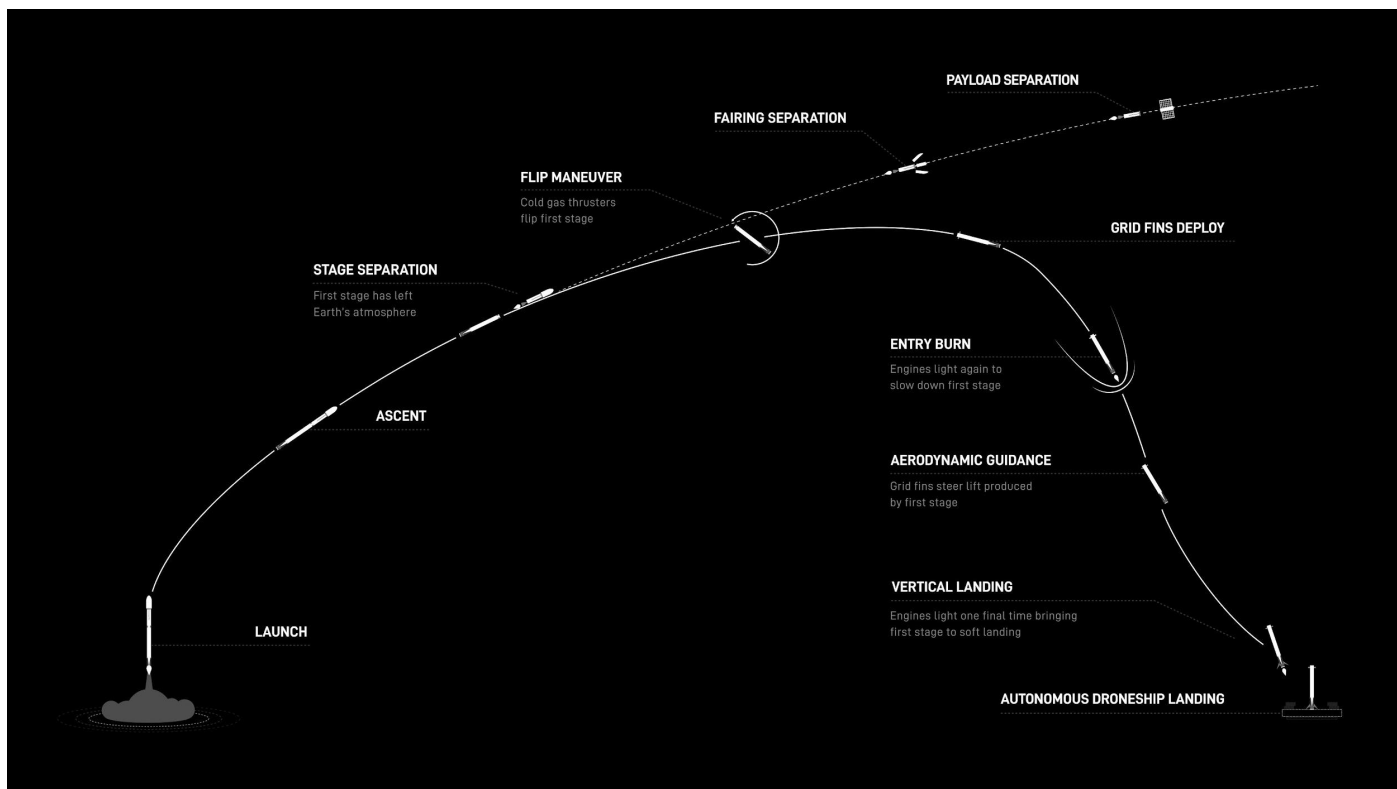
SpaceX is targeting Sunday, September 3 at 7:25 p.m. ET (23:25 UTC) for a Falcon 9 launch of 21 **Starlink** satellites to low-Earth orbit from Launch Complex 39A (LC-39A) at NASA's Kennedy Space Center in Florida. If needed, five additional opportunities are available starting at 8:15 p.m. ET (00:15 UTC on September 4) until 11:05 p.m. ET (03:05 UTC). Six backup opportunities are also currently available on Monday, September 4 starting at 6:59 p.m. ET (22:59 UTC) until 10:39 p.m. ET (02:39 UTC on September 5).

WEBCAST

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

This is the 10th flight for the first stage booster supporting this mission, which previously launched SES-22, ispace's HAKUTO-R Mission 1, Hispasat Amazonas Nexus mission, CRS-27, and five Starlink missions. Following stage separation, the first stage will land on the Just Read the Instructions droneship, which will be stationed in the Atlantic 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 begins
- 00:35:00	1st stage LOX (liquid oxygen) loading begins
- 00:16:00	2nd stage LOX loading begins
- 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)
00:02:24	1st stage main engine cutoff (MECO)
00:02:27	1st and 2nd stages separate
00:02:34	2nd stage engine starts (SES-1)
00:03:02	Fairing deployment
00:06:04	1st stage entry burn begins
00:06:31	1st stage entry burn ends
00:08:00	1st stage landing burn begins
00:08:24	1st stage landing
00:08:35	2nd stage engine cutoff (SECO-1)
00:54:05	2nd stage engine starts (SES-2)
00:54:06	2nd stage engine cutoff (SECO-2)
01:05:14	Starlink satellites deploy