

STARLINK GROUP 7-1 MISSION



MISSION OVERVIEW

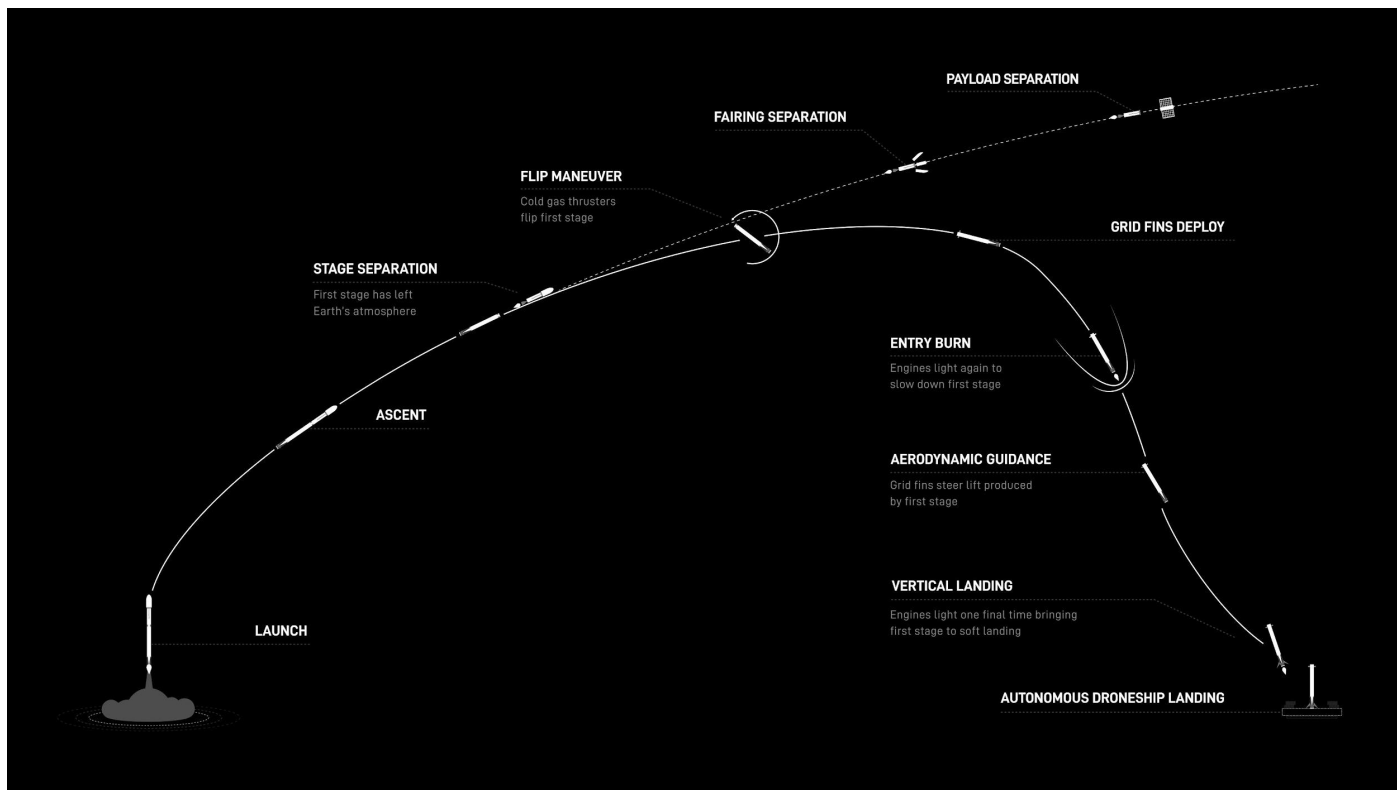
SpaceX is targeting Thursday, August 17 at 12:01 a.m. PT (7:01 UTC) for a Falcon 9 launch of 21 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4E (SLC-4E) at Vandenberg Space Force Base in California. If needed, four additional opportunities are available starting at 12:51 a.m. PT (7:51 UTC) until 3:23 a.m. PT (10:23 UTC). Two backup opportunities are also currently available on Friday, August 18 at 12:30 a.m. (7:30 UTC) and 1:20 a.m. PT (8:20 UTC).

WEBCAST

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

This is the 15th flight for the first stage booster supporting this mission, which previously launched Crew-1, Crew-2, SXM-8, CRS-23, IXPE, Transporter-4, Transporter-5, Globalstar FM15, ISI EROS C-3, and five Starlink missions. Following stage separation, the first stage will land on the Of Course I Still Love You dronship, which will be 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 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)
00:02:26	1st stage main engine cutoff (MECO)
00:02:30	1st and 2nd stages separate
00:02:36	2nd stage engine starts (SES-1)
00:03:04	Fairing deployment
00:06:10	1st stage entry burn begins
00:06:33	1st stage entry burn ends
00:08:05	1st stage landing burn begins
00:08:27	1st stage landing
00:08:38	2nd stage engine cutoff (SECO-1)
00:53:59	2nd stage engine starts (SES-2)
00:54:00	2nd stage engine cutoff (SECO-2)
01:05:08	Starlink satellites deploy