

# STARLINK GROUP 7-4 MISSION



## MISSION OVERVIEW

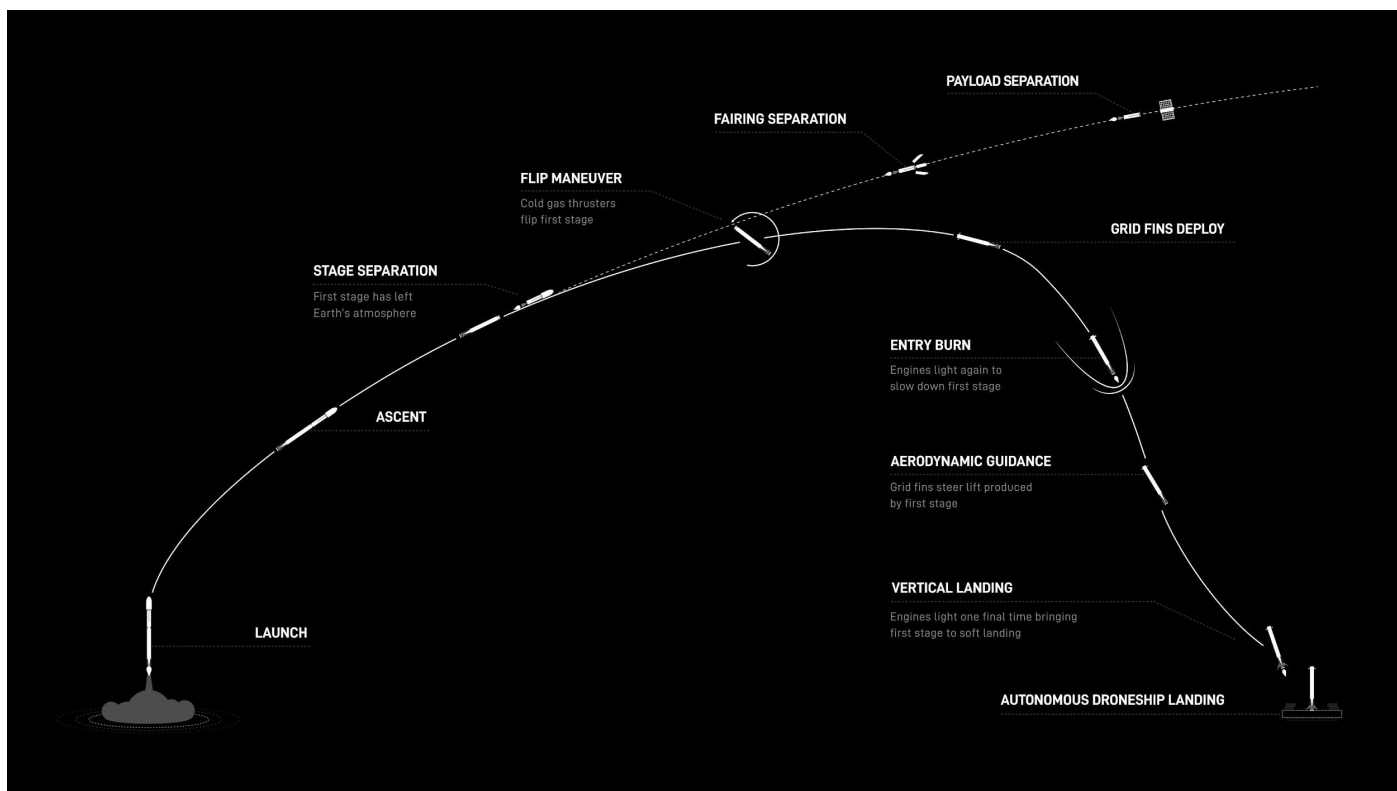
SpaceX is targeting Monday, October 9 at 12:23 a.m. PT for a Falcon 9 launch of 21 **Starlink** satellites to low-Earth orbit from Space Launch Complex 4 East (SLC-4E) at Vandenberg Space Force Base in California. If needed, four backup opportunities are available starting at 1:14 a.m. PT until 3:46 a.m. PT.

This is the 14th flight for the first stage booster supporting this mission, which previously launched Sentinel-6 Michael Freilich, DART, Transporter-7, Iridium OneWeb, SDA-0B, and eight 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.

## WEBCAST

A live webcast of this mission will begin on **X @SpaceX** about five minutes prior to liftoff.

## MISSION PROFILE



# MISSION TIMELINE (ALL TIMES APPROXIMATE)

## COUNTDOWN

<b>Hr/Min/Sec</b>	<b>Event</b>
- 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

<b>Hr/Min/Sec</b>	<b>Event</b>
00:01:12	Max Q (Moment of peak mechanical stress on the rocket)
00:02:26	1st stage main engine cutoff (MECO)
00:02:29	1st and 2nd stages separate
00:02:35	2nd stage engine starts (SES-1)
00:03:04	Fairing deployment
00:06:14	1st stage entry burn begins
00:06:36	1st stage entry burn ends
00:08:04	1st stage landing burn begins
00:08:31	1st stage landing
00:08:39	2nd stage engine cutoff (SECO-1)
00:53:24	2nd stage engine starts (SES-2)
00:53:26	2nd stage engine cutoff (SECO-2)
01:02:27	Starlink satellites deploy