

STARLINK GROUP 6-21 MISSION



MISSION OVERVIEW

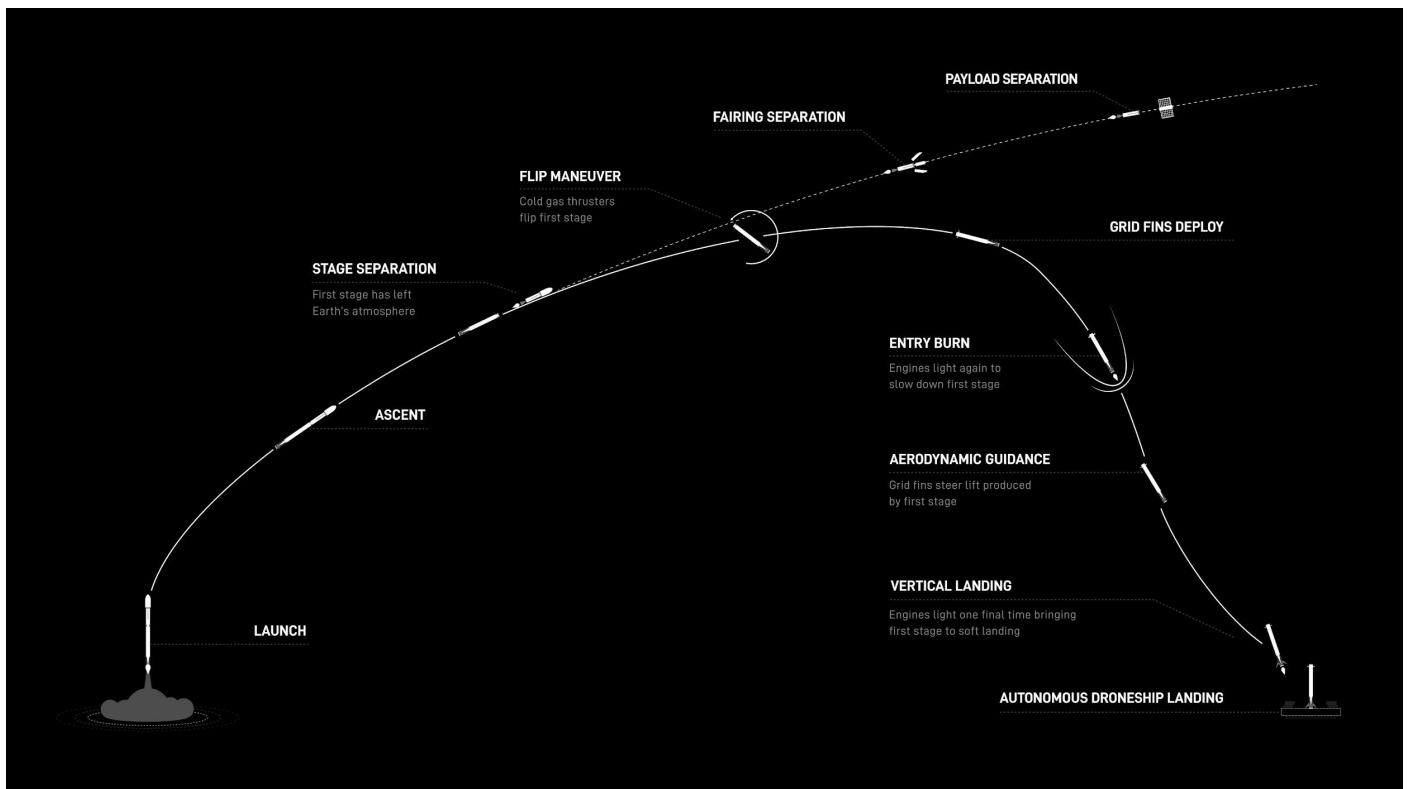
SpaceX is targeting Wednesday, October 4 at 10:45 p.m. ET for a Falcon 9 launch of 22 **Starlink** satellites to low-Earth orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. If needed, four backup opportunities are available starting at 11:38 p.m. ET until 1:57 a.m. ET on Thursday, October 5. Six backup opportunities are also currently available on Thursday, October 5 starting at 10:29 p.m. ET until 1:49 a.m. ET on Friday, October 6.

This is the eighth flight for the first stage booster supporting this mission, which previously launched CRS-26, OneWeb Launch 16, Intelsat IS-40e, and four 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.

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

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)
00:02:25	1st stage main engine cutoff (MECO)
00:02:28	1st and 2nd stages separate
00:02:34	2nd stage engine starts (SES-1)
00:03:05	Fairing deployment
00:06:09	1st stage entry burn begins
00:06:29	1st stage entry burn ends
00:08:00	1st stage landing burn begins
00:08:24	1st stage landing
00:08:38	2nd stage engine cutoff (SECO-1)
00:53:57	2nd stage engine starts (SES-2)
00:53:59	2nd stage engine cutoff (SECO-2)
01:05:15	Starlink satellites deploy