



STARLINK-15 MISSION

MISSION OVERVIEW

SpaceX is targeting Thursday, October 22 at 12:14 p.m. EDT, 16:14 UTC, for its fifteenth Starlink mission, which will launch 60 Starlink satellites to orbit. Falcon 9 will lift off from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station. There is a backup opportunity available on Friday, October 23 at 11:53 a.m. EDT, 15:53 UTC.

Falcon 9's first stage previously supported the GPS III Space Vehicle 03 mission in June 2020 and a Starlink mission in September 2020. Following stage separation, SpaceX will land Falcon 9's first stage on the "Just Read the Instructions" dronship, which will be stationed in the Atlantic Ocean.

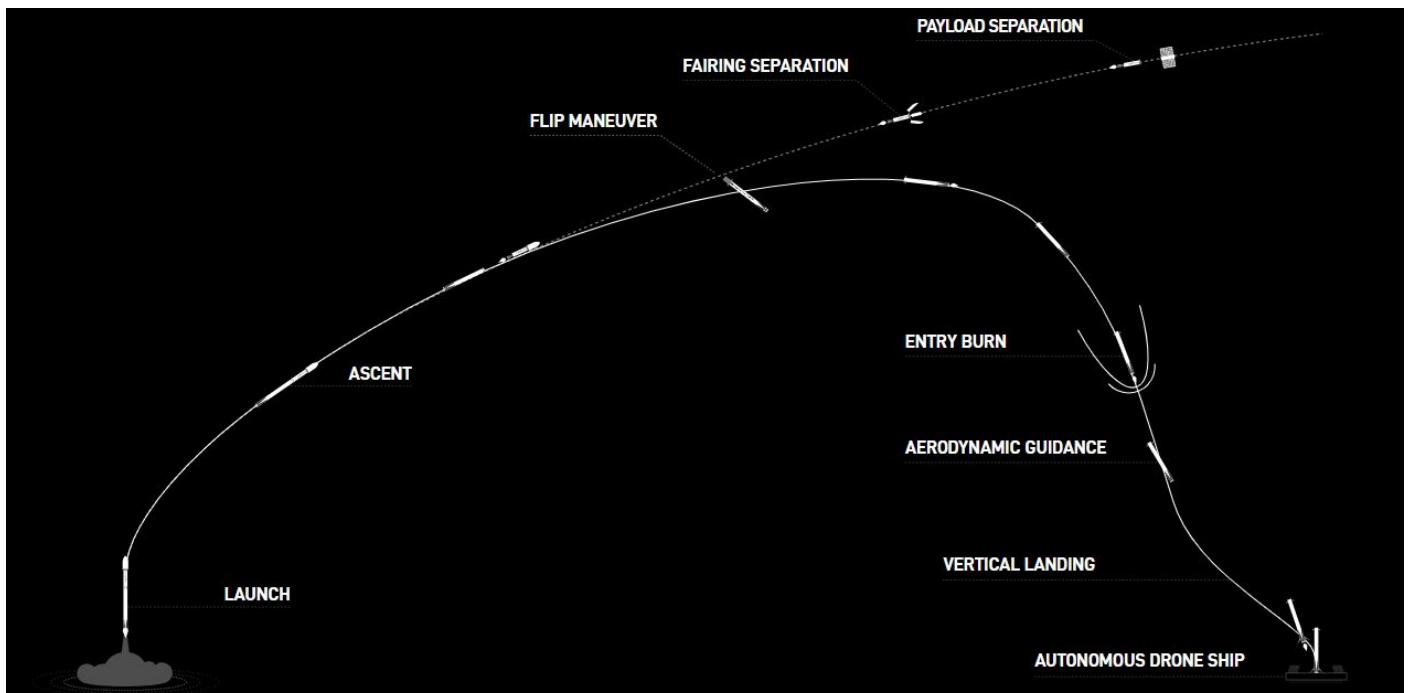
Earlier this week, Ector County Independent School District in Texas [announced](#) their participation in a pilot program to help local students and their families access high-speed, low-latency internet. Similar to other rural communities, many residents of Ector County have limited to no connectivity. This issue was brought to the forefront for the school district earlier this year when COVID-19 forced school building closures and nearly two in five students did not have access to reliable high-speed internet at home. Starting in 2021, Starlink will connect up to 45 households in the community as part of the pilot program. As network capabilities continue to grow, it will then expand service to an additional 90 households in the school district.

If you would like to receive updates on Starlink news and service availability in your area, please visit starlink.com.

WEBCAST

You can watch the launch webcast live [here](#), starting about 15 minutes before 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 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
00:02:43	2nd stage engine starts (SES-1)
00:03:20	Fairing deployment
00:06:40	1st stage entry burn complete
00:08:23	1st stage landing
00:08:48	2nd stage engine cutoff (SECO-1)
00:44:13	2nd stage engine restarts (SES-2)
00:44:15	2nd stage engine cutoff (SECO-2)
01:03:10	Starlink satellites deploy