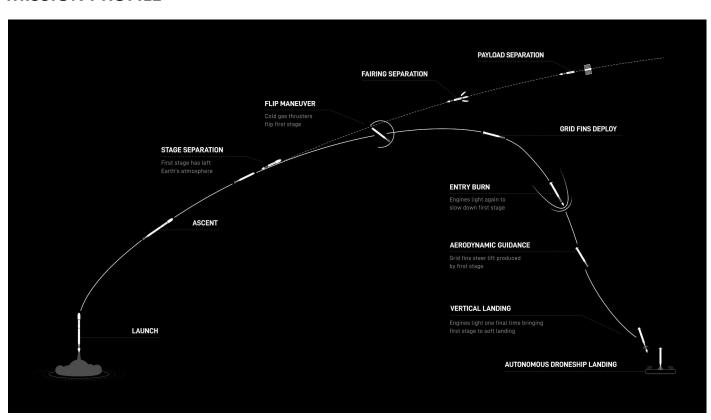# STARLINK GROUP 4-3 MISSION

MISSION OVERVIEW

SpaceX is targeting Thursday, December 2 for a Falcon 9 launch of 48 **Starlink** satellites and two BlackSky spacecraft to orbit from Space Launch Complex 40 (SLC-40) at Cape Canaveral Space Force Station in Florida. The instantaneous launch window is at 6:12 p.m. EST, or 23:12 UTC.

The Falcon 9 first stage booster supporting this mission previously launched GPS III-3, Turksat 5A, Transporter-2, and five Starlink missions. Following stage separation, SpaceX will land Falcon 9's first stage on the A Shortfall of Gravitas droneship, which will be stationed in the Atlantic Ocean.

WEBCAST

A live webcast of this mission will begin about 15 minutes prior to liftoff.

PHOTOS

High-resolution photos will be posted at flickr.com/spacex.

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)
00:02:33	1st stage main engine cutoff (MECO)
00:02:36	1st and 2nd stages separate
00:02:44	2nd stage engine starts
00:03:15	Fairing deployment
00:06:22	1st stage entry burn start
00:06:41	1st stage entry burn complete
00:08:07	1st stage landing burn start
00:08:31	1st stage landing burn complete
00:08:45	2nd stage engine cutoff (SECO-1)
01:03:43	1st BlackSky satellite deploys
01:06:53	2nd BlackSky satellite deploys
01:29:28	Starlink satellites deploy