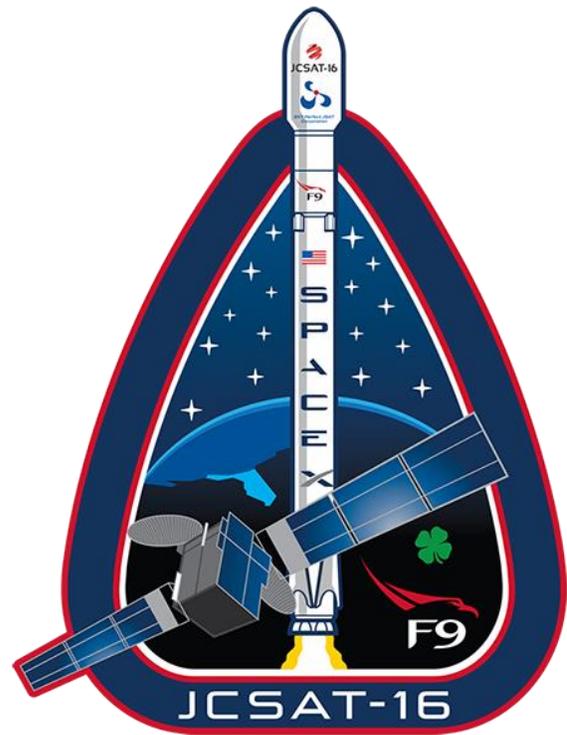


# JCSAT-16 Mission

## Mission Overview

SpaceX’s Falcon 9 rocket will deliver JCSAT-16, a commercial communications satellite for SKY Perfect JSAT Corporation, to a Geostationary Transfer Orbit (GTO). SKY Perfect JSAT is a leading satellite operator in the Asia-Pacific region and provides high-quality satellite communications to its customers using its fleet of 16 satellites. SpaceX’s Falcon 9 successfully launched JCSAT-14 in May.

SpaceX is targeting launch of JCSAT-16 from Space Launch Complex 40 at Cape Canaveral Air Force Station, Florida on August 14 with a backup date of August 15. The approximately two hour launch window opens on August 14 at 1:26 am ET, 5:26am UTC.



Official SpaceX JCSAT-16 mission patch

A backup launch window on August 15 opens at the same time. The satellite will be deployed approximately 32 minutes after liftoff.

Following stage separation, the first stage of Falcon 9 will attempt a secondary-mission objective of landing on the “Of Course I Still Love You” droneship that will be on station in the Atlantic Ocean. Given this mission’s GTO destination, the first-stage will be subject to extreme velocities and re-entry heating, making a successful landing challenging.

## Payload

JCSAT-16 is a Space Systems Loral (SSL) telecommunications satellite carrying Ku-band and Ka-Band transponders. The satellite will function as an in-orbit back-up satellite to the company’s existing services in the Ku- and Ka-band, enabling the provision of more stable satellite services and further strengthening the foundations of SKY Perfect JSAT Corporation’s business.

SKY Perfect JSAT offers a wide range of services including video distribution, data transfer communications in Asia, Russia, Oceania, Middle East and North America. The company also operates the largest Direct-to-Home satellite broadcasting platform, “SKY PerfectTV!” in Japan which provides over 250 channels to approximately 3.4 million households.

## Mission Timeline (all times approximate)

### COUNTDOWN

Hour/Min	Events
- 00:38	Launch Conductor takes launch readiness poll
- 00:35	RP-1 (rocket grade kerosene) and LOX (liquid oxygen) loading underway
- 00:07	Falcon 9 begins engine chill prior to launch
- 00:02	Range Control Officer (USAF) verifies range is go for launch
- 00:01:30	SpaceX Launch Director verifies go for launch
- 00:01	Command flight computer to begin final prelaunch checks
- 00:01	Pressurize propellant tanks
- 00:00:03	Engine controller commands engine ignition sequence to start
00:00:00	Falcon 9 liftoff

### LAUNCH AND SATELLITE DEPLOYMENT

Hour/Min	Events
00:01:18	Max Q (moment of peak mechanical stress on the rocket)
00:02:33	1st stage engine shutdown/main engine cutoff (MECO)
00:02:36	1st and 2nd stages separate
00:02:44	2nd stage engine starts
00:03:32	Fairing deployment
00:08:32	2nd stage engine cutoff (SECO-1)
00:26:30	2nd stage engine restarts
00:27:32	2nd stage engine cutoff (SECO-2)
00:32:13	JCSAT-16 satellite deployed

## Launch Facility

### Space Launch Complex 40, Cape Canaveral Air Force Station, Fla.

SpaceX's Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station is a world-class launch site that builds on a strong heritage. The site, located at the north end of the Cape, was used for many years to launch Titan rockets, among the most powerful rockets in the U.S. fleet. SpaceX took over the facility in May 2008.

The center of the complex is composed of the concrete launch pad and flame exhaust duct. Surrounding the pad are four lightning towers, propellant storage tanks, and the integration hangar. Before launch, Falcon 9's stages and payload are housed inside the hangar. The JCSAT-16 satellite was encapsulated at the SpaceX payload processing facility at Cape Canaveral. The encapsulated payload was transported to the SLC-40 hangar and mated to the Falcon 9 already on the transporter erector. The rocket and payload are then rolled out from the hangar to the launch pad on fixed rails and lifted to a vertical position prior to launch.

## Resources

**SPACEX CONTACT** | John Taylor, Director of Communications, 310-363-6703, [media@spacex.com](mailto:media@spacex.com).

**PHOTOS** | High-resolution photos will be posted at [spacex.com/media](http://spacex.com/media) and [flickr.com/spacex](https://www.flickr.com/photos/spacex/).

**WEBCAST** | Launch webcast will be live about 20 minutes before launch at [spacex.com/webcast](http://spacex.com/webcast).