



JCSAT-18/Kacific1 MISSION

MISSION OVERVIEW

SpaceX is targeting Monday, December 16 for launch of JCSAT-18/Kacific1 from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station, Florida. The launch window opens at 7:10 p.m. EST, or 00:10 UTC on December 17, and closes at 8:38 p.m. EST, 01:38 UTC on December 17. A backup launch window is available on Tuesday, December 17 that opens at 7:10 p.m. EST, or 00:10 UTC on December 18, and closes at 8:38 p.m. EST, 01:38 UTC on December 18. The satellite will be deployed at approximately 33 minutes after liftoff.

WEBCAST

Launch webcast will go live about 15 minutes before liftoff at [spacex.com/webcast](https://www.spacex.com/webcast)

PHOTOS

High-resolution photos will be posted at [flickr.com/spacex](https://www.flickr.com/photos/spacex/)

Falcon 9's first stage for the JCSAT-18/Kacific1 mission previously supported the CRS-17 mission in May 2019 and the CRS-18 mission in July 2019. Following stage separation, SpaceX will land Falcon 9's first stage on the "Of Course I Still Love You" droneship, which will be stationed in the Atlantic Ocean. Approximately 45 minutes after liftoff, SpaceX's two fairing recovery vessels, "Ms. Tree" and "Ms. Chief," will attempt to recover the two fairing halves.

PAYLOAD DESCRIPTION

Boeing built the JCSAT-18/Kacific1 satellite, equipping it with two unique payloads.

The JCSAT-18 satellite was built for SKY Perfect JSAT, one of the largest providers of multichannel pay TV broadcast services in Japan, which operates the largest satellite communications business in Asia. The JCSAT-18 satellite will provide Ku-band coverage and improve mobile and broadband services for SKY Perfect JSAT Corporation customers in the Asia-Pacific region, including the far eastern part of Russia. The satellite features technologies in the power subsystem to achieve highest efficiencies, and it also features command and data handling technologies to provide a more secure spacecraft. Boeing has built 13 satellites, including two high-throughput satellites, for SKY Perfect JSAT Corporation and its predecessors since the 1980s.

Kacific1 is a next-generation geostationary satellite operating in the Ka-band frequency spectrum. Its 56 high-throughput spot beams will place capacity over selected regions in South East Asia and the Pacific Islands. Deployed to a geostationary orbital position above Asia Pacific, Kacific1 will transmit to state-of-the-art gateways, designed and built by Kratos. Kacific1 will connect previously unserved or under-served populations with affordable, high-speed broadband for healthcare, education, government services, businesses, and disaster relief. Its services will stimulate economic growth and provide greater access to the internet.



LAUNCH FACILITY

Falcon 9 will launch this mission from Space Launch Complex 40 (SLC-40) at Cape Canaveral Air Force Station in Florida. Learn more about SpaceX's launch facilities at [spacex.com/about](https://www.spacex.com/about)

SPACE X CONTACT

Eva Behrend
Sr. Communications Manager
310.363.6247
media@spacex.com

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 SATELLITE DEPLOYMENT

Hr/Min/Sec	Event
00:01:13	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
00:02:42	2nd stage engine starts
00:03:35	Fairing deployment
00:06:14	1st stage entry burn begins
00:08:11	2nd stage engine cutoff (SECO-1)
00:08:38	1st stage landing
00:27:21	2nd stage engine restarts
00:28:09	2nd stage engine cutoff (SECO-2)
00:33:10	JCSAT-18/Kacific1 deployment