



# KINÉIS KILLED THE RADIOT STAR

PRESS KIT | NET SEPT 19, 2024

Rocket Lab USA, Inc.  
rocketlabusa.com



# LAUNCH INFORMATION

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Rocket Lab will launch the dedicated Electron rocket for French Internet of Things (IoT) company Kinéis.

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## LAUNCH SITE

Launch Complex 1 – Pad A  
Mahia, New Zealand.

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## LAUNCH WINDOW

The launch window opens on September 17h NZST and extends for 14 days. This launch requires an instantaneous T-O and it remains the same for every day of the launch window.

Time Zone	Window Open
NZST	Sept 17 - 11:00 am
EDT	Sept 16 - 7:00 pm
UTC	Sept 16 - 11:00 pm
PDT	Sept 16 - 4:00 pm

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ORBIT

# 643km

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SATELLITES

# 5

5x IoT Satellites

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INCLINATION

# 98

Degrees

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CUSTOMER

# Kinéis

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# MISSION OVERVIEW

About 'Kinéis Killed the RadiOT Star'



Mission Success Complete  
19 June 2024



Launching NET Sept 17  
2024



Launching Soon



Launching Soon



Launching Soon

Kinéis Killed the RadiOT Star will be Rocket Lab's 53rd launch, lifting off from Launch Complex 1 in New Zealand, deploying five satellites for French IoT company Kinéis.



The mission is the second of five dedicated Electron launches for Kinéis, the first mission, 'No Time Toulouse,' launched on June 19, 2024. Across these five launches, Rocket Lab will deploy Kinéis' complete constellation of 25 satellites.

Kinéis, a satellite IoT operator, is backed by private and public investors including the French government's space agency CNES (Centre National d'Études Spatiales) and CLS (Collecte Localisation Satellites) an international space-based solutions provider, to improve global IoT connectivity.

The 'Kinéis Killed the RadiOT Star' launch has been tailored specifically to meet Kinéis' mission requirements, giving them greater control over launch schedule, orbit, and deployment parameters than would be possible on a larger rideshare mission. Tailored mission parameters for this launch include:

- Instantaneous launch window,
- After the first Curie engine burn to circularize the Kick Stage's orbit, Curie will ignite again for an eight second burn to set a specific argument of perigee, enabling Kinéis to deploy five satellites to a precise location for each one of the five launches,
- All five satellites will be deployed in a precise sequence in singles and as pairs to build out the constellation exactly as Kinéis needs it,
- Finally, Curie will conduct a perigee lowering burn to reduce the Kick Stage's orbital lifetime to keep space sustainable.

# LAUNCH SITE OVERVIEW

**Rocket Lab Launch Complex-1**  
Mahia, New Zealand



'Kinéis Killed The RadIOT Star' will lift off from Launch Complex 1 on New Zealand's Mahia Peninsula.

An FAA-licensed spaceport, Launch Complex 1 can provide up to 120 launch opportunities every year. From the site it is possible to reach orbital inclinations from sun-synchronous through to 30 degrees, enabling a wide spectrum of inclinations to service the majority of the satellite industry's missions to low Earth orbit.



Located within Launch Complex 1 are Rocket Lab's private range control facilities, two 100K satellite cleanrooms, a launch vehicle assembly facility which can process multiple Electrons at once, and administrative offices.

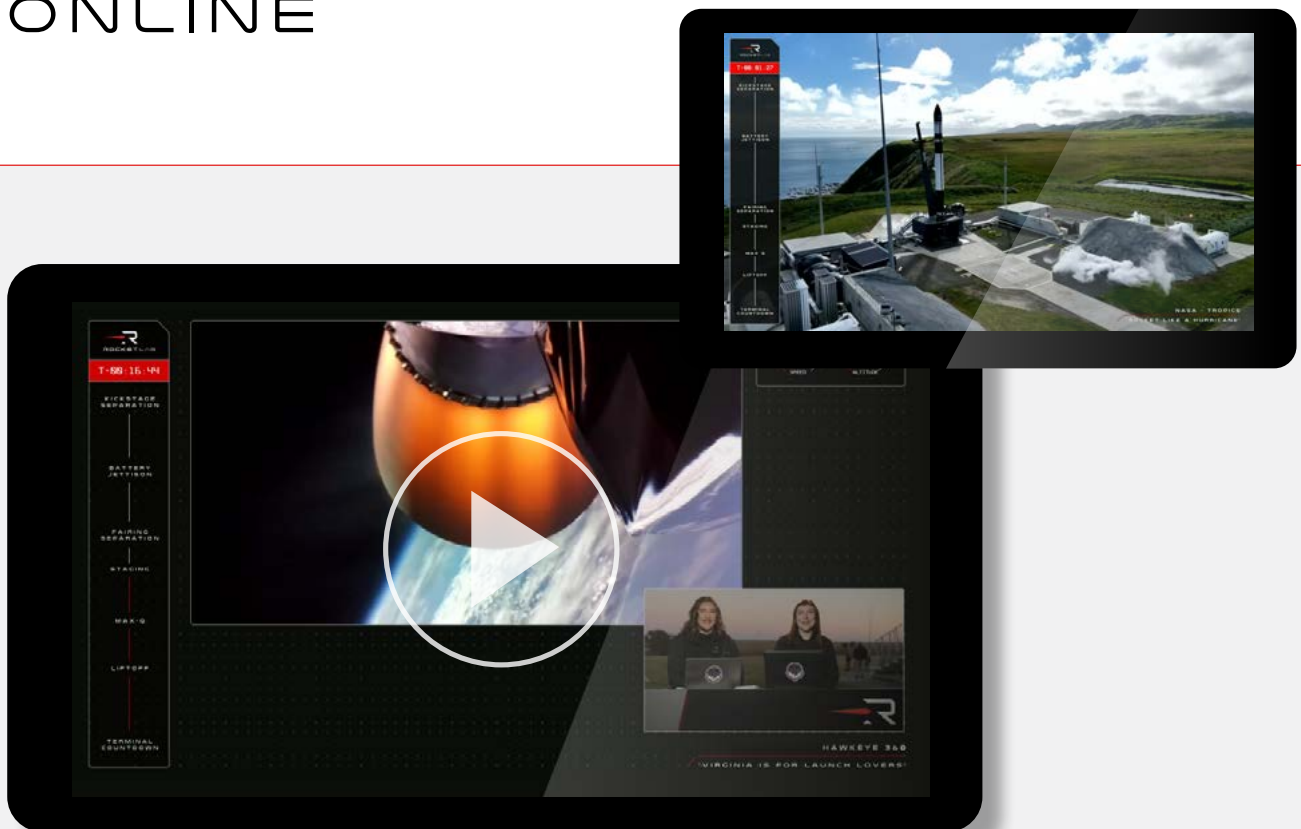
Operating a private orbital launch site alongside its own range and mission control centres allows Rocket Lab to reduce the overhead costs per mission, resulting in a cost-effective launch service for satellite operators.

In addition to Launch Complex 1, Rocket Lab operates an additional launch site, Launch Complex 2, at the Mid-Atlantic Regional Spaceport within NASA's Wallops Flight Facility on Virginia's Eastern Shore. Launch Complex 2 can support up to 12 missions per year.

By operating two launch complexes in two hemispheres, Rocket Lab provides customers with flexible, responsive launch opportunities.



# VIEWING A LAUNCH ONLINE



## LIVE STREAM

The live stream is viewable at:

[rocketlabusa.com/  
live-stream](https://rocketlabusa.com/live-stream)

## LAUNCH FOOTAGE & IMAGES

Images and footage of "Kineis Killed The RadIoT Star" launch will be available shortly after a successful mission at:

[www.flickr.com/photos/rocketlab](https://www.flickr.com/photos/rocketlab)

## UPDATES

For information on launch day visit:

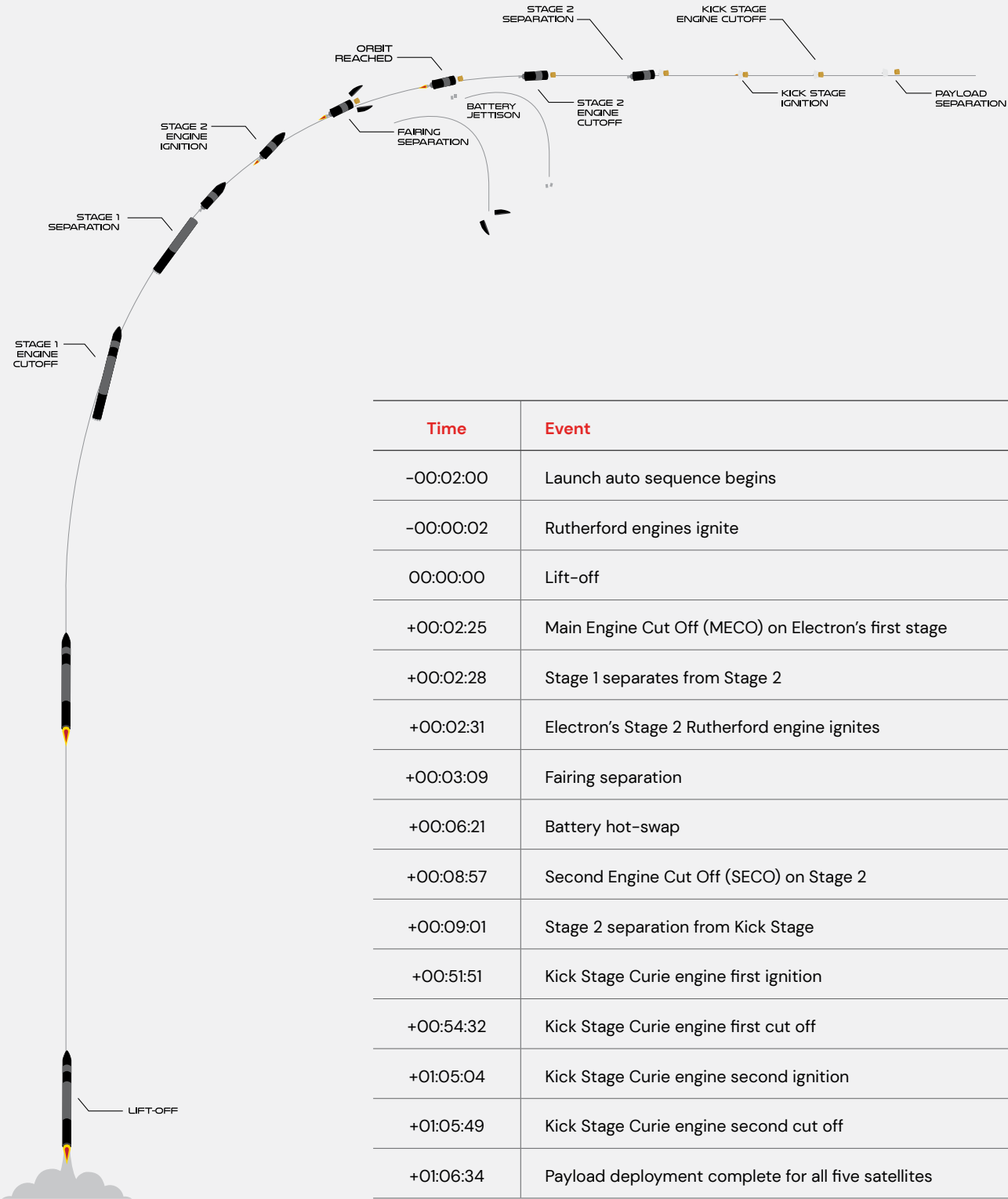
[rocketlabusa.com/next-mission](https://rocketlabusa.com/next-mission)

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# TIMELINE OF LAUNCH EVENTS



# ELECTRON LAUNCH VEHICLE

## OVERALL

### LENGTH

18m

### DIAMETER (MAX)

1.2m

### STAGES

2 + Kick Stage

### VEHICLE MASS (LIFT-OFF)

13,000kg

### MATERIAL/STRUCTURE

Carbon Fiber Composite/Monocoque

### PROPELLANT

LOX/Kerosene

## PAYLOAD

### NOMINAL PAYLOAD

320kg / 440lbm To 500km

### FAIRING DIAMETER

1.2m

### FAIRING HEIGHT

2.5m

### FAIRING SEP SYSTEM

Pneumatic Unlocking, Springs

## STAGE 2

### PROPULSION

1x Rutherford Vacuum Engine

### THRUST

5800 LBF Vacuum

### ISP

343 Sec

## INTERSTAGE

### SEPARATION SYSTEM

Pneumatic Pusher

## STAGE 1

### PROPULSION

9x Rutherford Sea Level Engines

### THRUST


5600 LBF Sea Level (Per Engine)


### ISP

311 Sec





## CONTACT US


 [rocketlabusa.com](https://rocketlabusa.com)

 [media@rocketlabusa.com](mailto:media@rocketlabusa.com)

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