

TRICOM-1R (Tasuki)



TRICOM-1R, also known as Tasuki is a Japanese nanosatellite that was launched during the SS-520-5 sounding rocket test launch on 3 February 2018, with a mission to conduct store and forward data relay and earth observation using a set of cameras.

Developed by the University of Tokyo, the spacecraft is a low-cost 3U CubeSat, with a goal of realizing future cost-competitive nanosatellites in the global market by using domestic commercial products.

Overview

TRICOM-1R was built based on the 'Hodoyoshi Reliability Engineering' demonstrated by the Hodoyoshi 3 and 4 microsatellites. It was built by the University of Tokyo Intelligent Space Systems Laboratory, with funding allocated from the Japanese Ministry of Economy, Trade and Industry. The store and forward mission involved the satellite storing weak signal data from terrestrial terminals, and forwarding the data when the satellite flies above ground stations. TRICOM-1R will also conduct Earth observation using its main camera and five sub cameras. The name of the spacecraft is partially based on the Japanese word Torikomu, which means 'to take in', due to the store and forward nature of the mission.

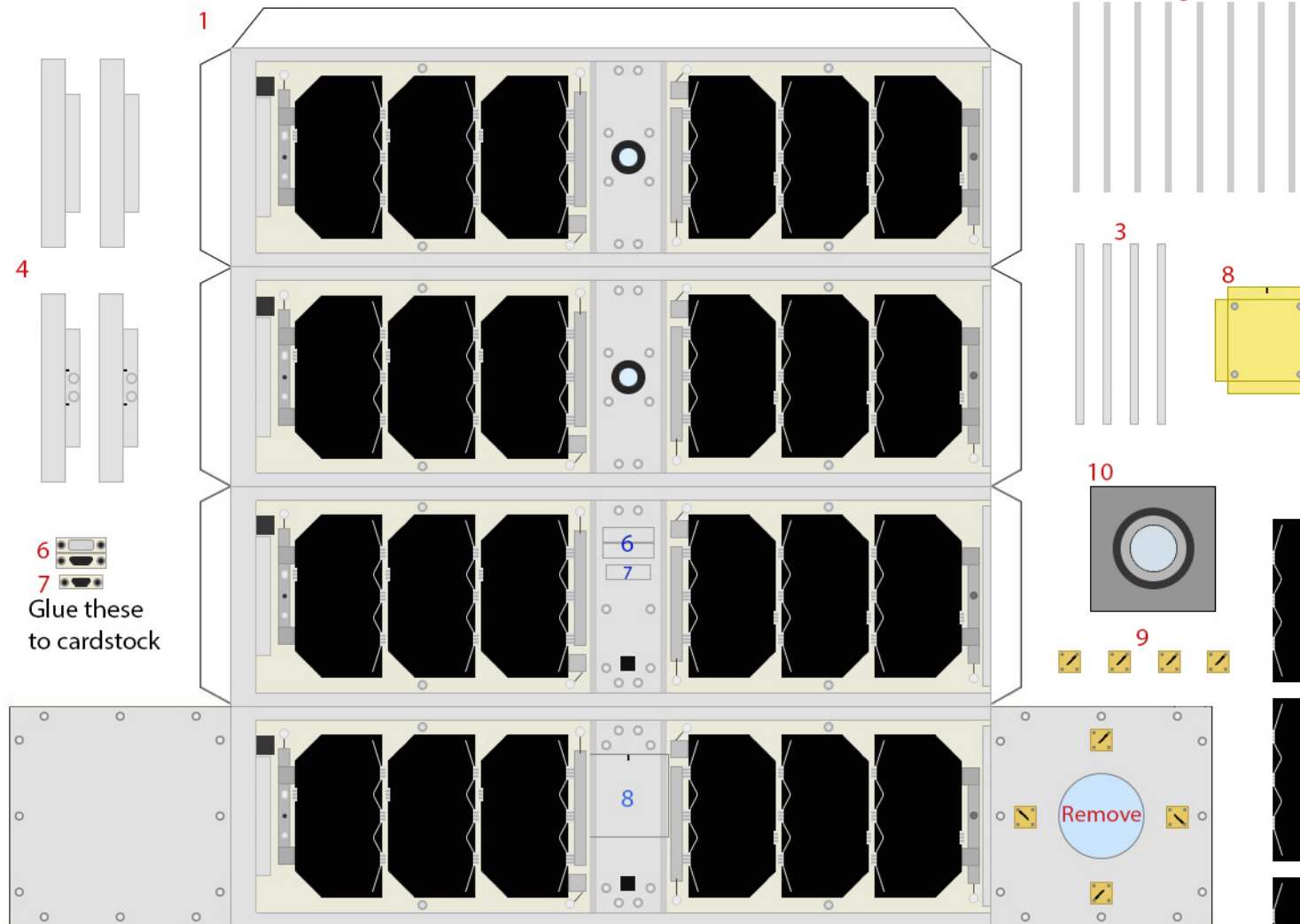
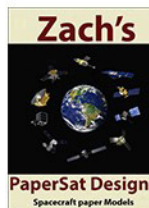
TRICOM-1

On 14 January 2017, the SS-520-4 three stage sounding rocket was launched from Uchinoura Space Center carrying TRICOM-1. 20 seconds after launch, contact was lost with the telemetry transmitter on board the rocket, and the command to ignite the second stage was not sent. The rocket reached a maximum altitude of approximately 190 km (120 mi). TRICOM-1 is believed to have crashed into the Pacific Ocean with its launcher. Despite loss of telemetry from the rocket, the satellite was automatically released from the rocket around the time it was scheduled to, and ground stations were able to briefly receive telemetry from the satellite.

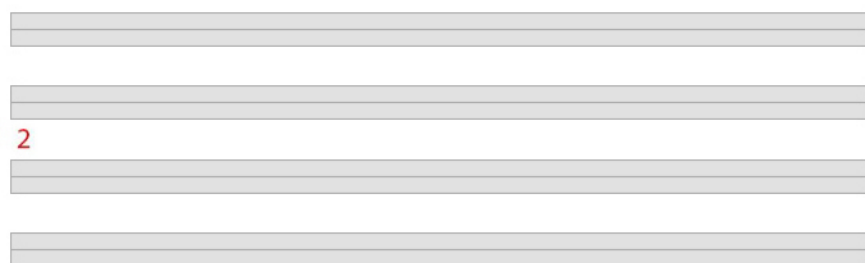
TRICOM-1R

The TRICOM-1R is a re-flight of the TRICOM-1, and was successfully placed into orbit on 3 February 2018.

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to cardstock



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