

From: Patrick Walton

To: Nimesh Sangani

Date: September 21, 2020

Subject: Additional Information Request

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Message:

We submitted a new revision of the ODAR (Rev D) with updates to address your questions. The following text was added to the ODAR:

Our spaceflight heritage review identified 15 satellites flown in space using four different on-board computing configurations with the STM32 microcontroller. A summary of this review is given in Table 2. All of the satellites identified by our review successfully completed the commissioning phase of their mission on orbit. Hatchling Canary uses a custom on-board computer that lays out the STM32 microcontroller in a manner recommended by the manufacturer. The Hatchling on-board computer has successfully controlled the satellite for hundreds of hours of autonomous ground-based and environmental testing.

Table 2. Spaceflight Heritage of the STM32 Microcontroller

Mission

Developer/Operator

Launch Date

On Orbit Commissioning Status

Swarm 1-12

Swarm Technologies

September 2, 2020

All 12 Successful

M6P-1

NanoAvionics

January 4, 2019

Successful

PicSat

Paris Observatory

December 1, 2018

Successful

BSUSat-1

Belarussian State University

October 29, 2018

Successful