

ISARA - Reflectarray Antenna for High-Bandwidth Communications

Summary

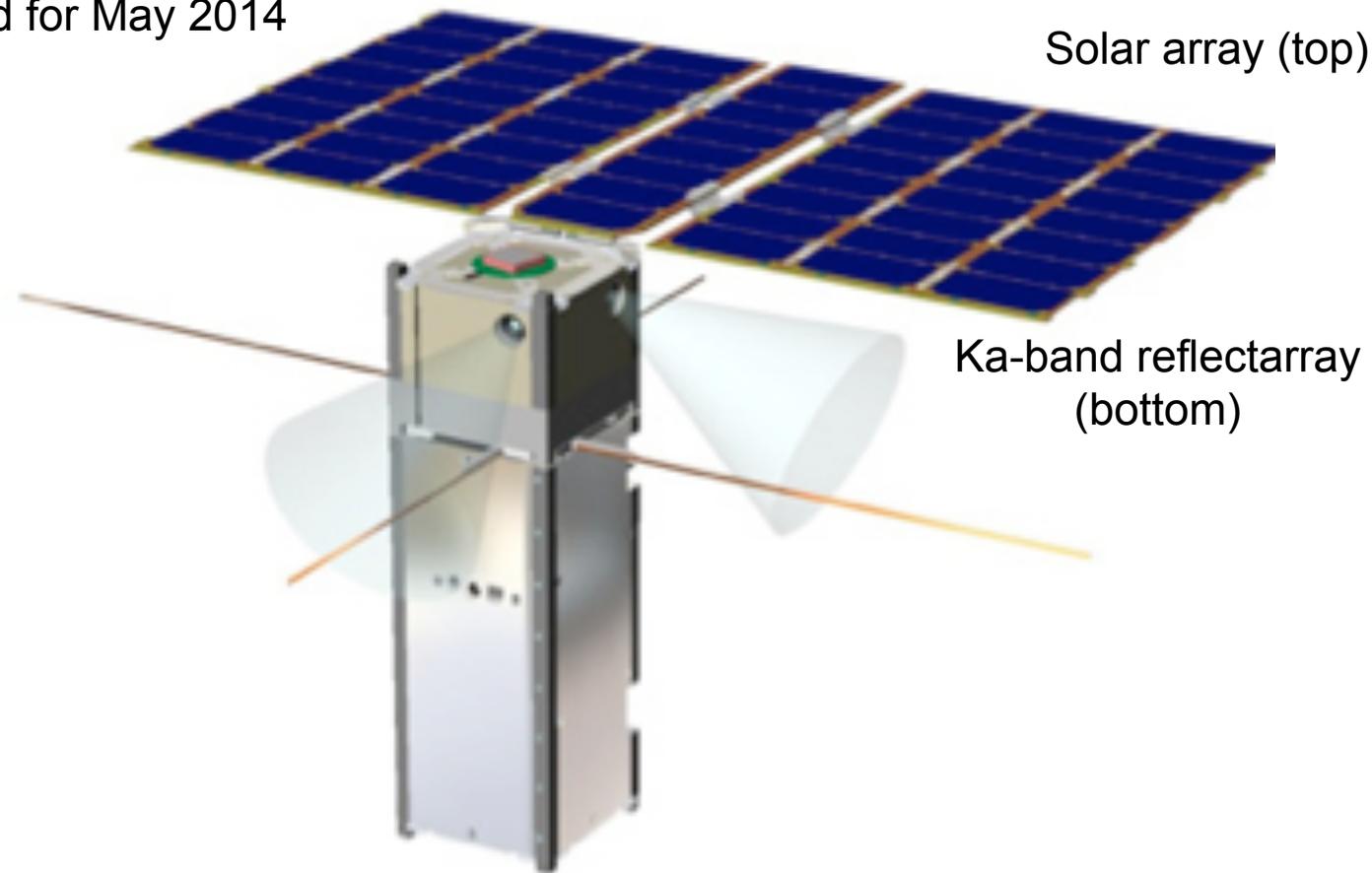
One 3U cubesat with a large, deployable solar array that doubles as a Ka-band reflectenna providing 100 Mps of data downlink capability.

Launch is planned for May 2014

Team

Jet Propulsion Laboratory
- Richard Hodges

Partner: Pumpkin, Inc. (spacecraft bus)



Optical Communication and Navigation for Cubesats

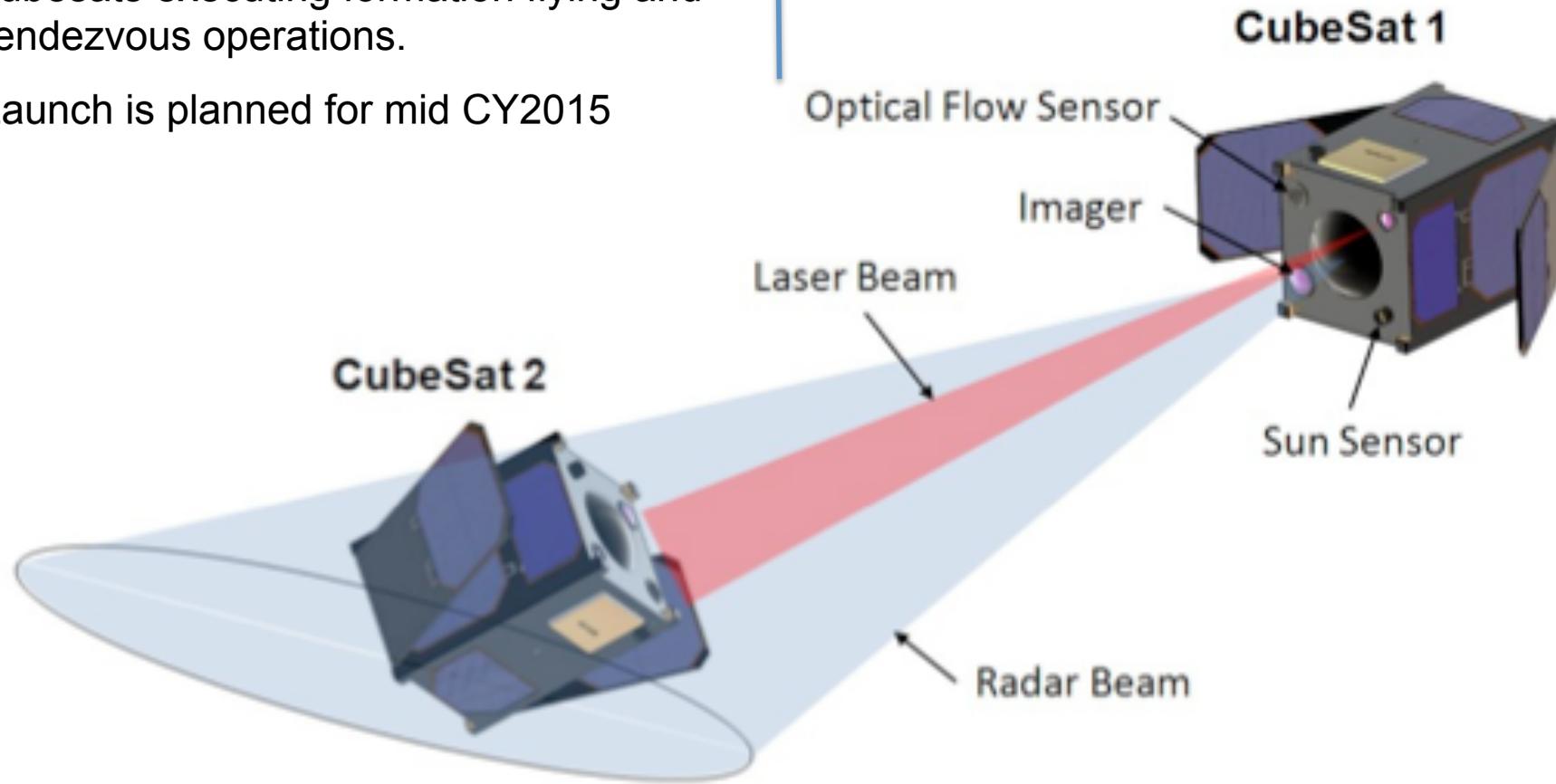
Summary

Demonstrate radar ranging, optical downlink, cold gas propulsion, and cross-track motion sensing with two 1.5U cubesats executing formation flying and rendezvous operations.

Launch is planned for mid CY2015

Team

Aerospace Corp.
- Siegfried Janson



Nano-Satellite Proximity Operations Demonstration

Summary

Two 3U CubeSats demonstrate rendezvous, proximity operations, docking and servicing, and formation flight over a 1-year mission.

Launch planned for May 2015

Team

Tyvak Nano-Satellite Systems LLC
- Scott MacGillivray

Partners: California Polytechnic State University, 406 Aerospace, Applied Defense Solutions, Analytical Graphics Inc.

