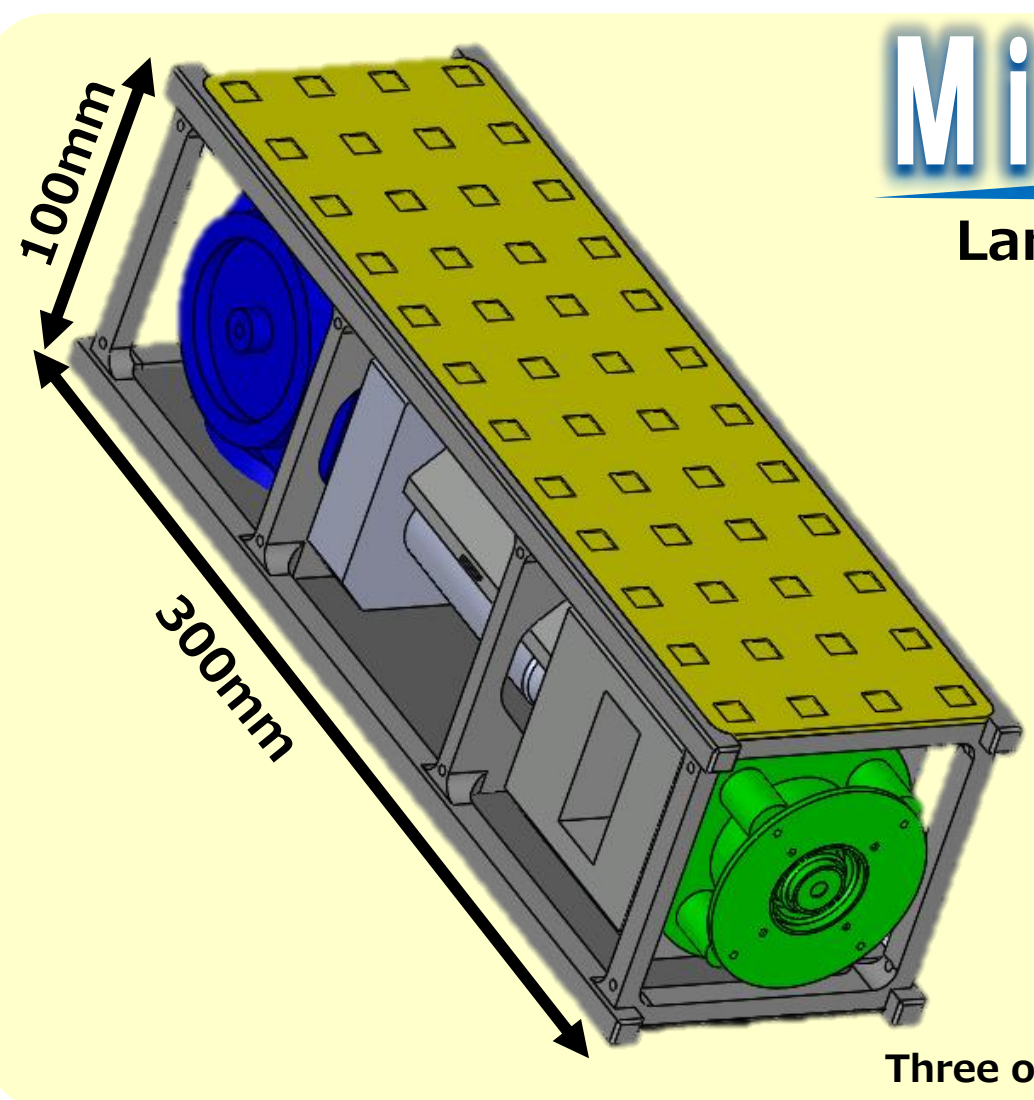


Shifting the technology of companies in the prefecture to microsatellites



Micro-Satellite

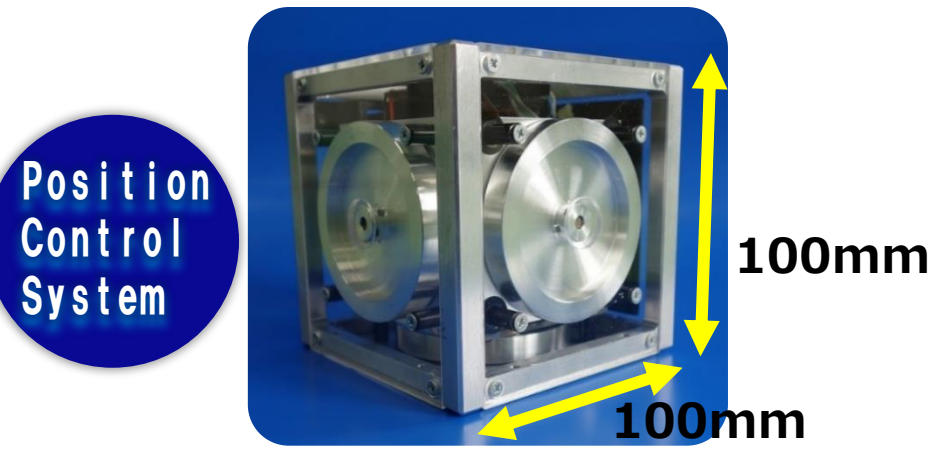
Large-capacity communication, long life, and debris countermeasures

Communication Technology	Maximum communication capacity : More than four times the current level (※) Ant Gain(MAX) : $\geq 20\text{dBi}$ ※Towards the ground station
Position Control System	Three-axis control of the satellite's position to point to the ground station Angular momentum(MAX) : 36.2mNms 3~12U (MAX30kg)
Propulsion System	Long life : ≥ 2 years Hall thruster thrust 5mN 3~12U (MAX30kg)

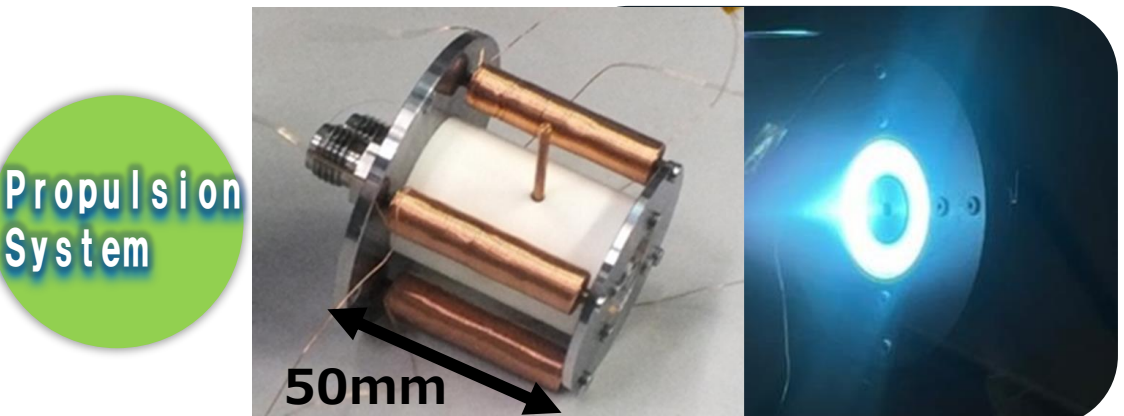
Three or more units can be equipped with analytical cameras,etc.



Laminated Patch Array Antenna



Reaction Wheel



Small electric propulsion system

Large-capacity communication

<Cooperating Companies>

- SHIRATO PRINTED CIRCUIT BOARD Co.,Ltd.
「Antenna Board Fabrication」
- ShibaSoku Co.,Ltd.
「Antenna Communication Evaluation」
- KIKUCHI SEIKI CO.,Ltd.
「Satellite Structure Fabrication」
- YAMANOI SEIKI Co.,Ltd
「Satellite Structure Fabrication」

<Cooperating Companies>

- STAR ENGINEERING Co.,Ltd.
「Small Moter Fabrication」
- KIKUCHI SEIKI CO.,Ltd.
「Satellite Structure Fabrication」

Long life and debris countermeasures

<Cooperating Companies>

- STAR ENGINEERING Co.,Ltd.
「Coil Fabrication」
- OHTSUKA CERAMICS INC.
「Insulator Fabrication」
- University of Tsukuba
「design & Evalustion」