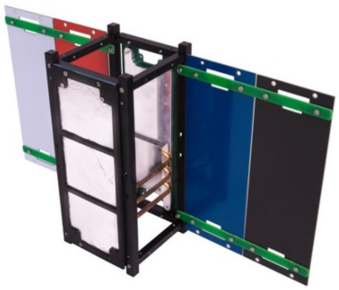
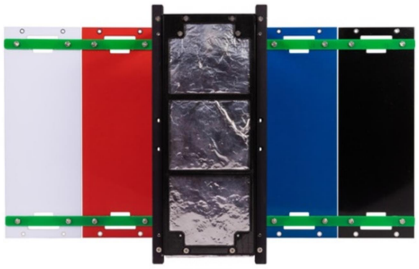
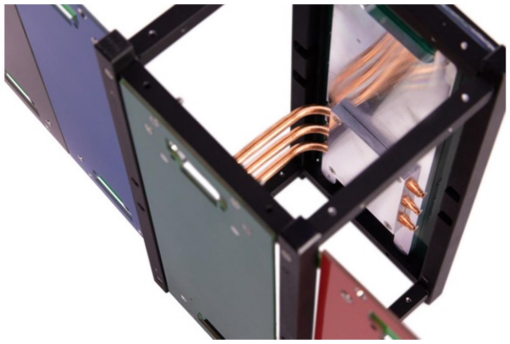
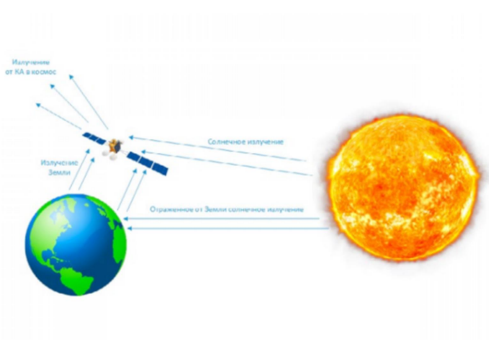
Introsat Educational Kit.
Temprature Control Systems



Extension of the constructor Introsat™, corresponding to the topic group "Heat and cold in space".

It is used to conduct classes on spacecraft thermal control systems.

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The kits allow you to conduct workshops on how to control the temperature of components in engineering systems and assemble a subsystem for transferring and dissipating excess heat from a CubeSat 2U satellite.

The content of the course and the completion of the basic set allow you to conduct theoretical and practical classes, including on topics:

- Features of heat transfer in space;
- Studying the basics of spacecraft thermal protection design, conducting experiments on heating satellite elements;
- Learn the basics of spacecraft thermal management systems using heat pipes;

Education Experience:

- ✓ Features of the conservation and transfer of heat in the space environment,
- ✓ methods of thermal control of spacecraft,
- ✓ development of a thermal management system based on heat pipes

Engineering Skills:

- ➢ TMS Design

Hardware and Materials:

- A set of components for assembling demonstration circuits for studying heating and cooling control (colorable surfaces, insulating material, temperature sensors, heating system, components for prototyping),
- A set of body elements with the ability to partially assemble a Cube Sat format model,
- A set of fasteners, set for thermal provision of the power system

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