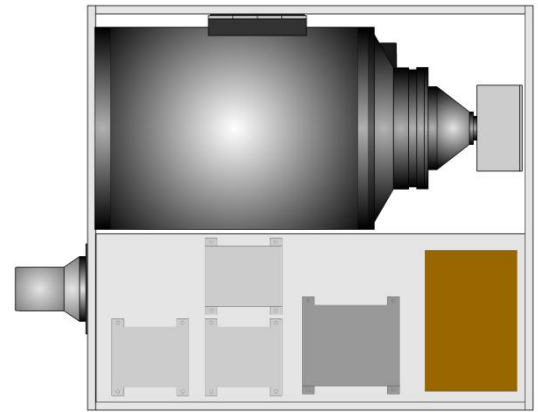


THETASAT

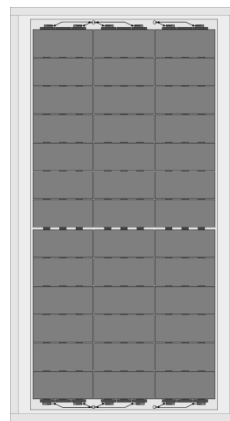
Innovative LEO Platform
Based on TUBSAT-Design of Prof. Renner
Advanced flexible Platform-Adaptions
Customized Payload Optimizations
Custom Interface



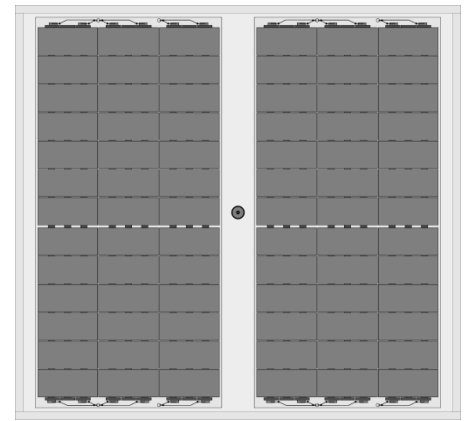
THETASAT is a newly developed innovative platform for low earth orbit satellites. The structure is based on the well known TUBSAT-design of Prof. Udo Renner, developed at the "Institut für Luft- und Raumfahrt" of the Technical University Berlin. With seven missions the TUBSAT satellites are in the orbit for many years. The cooperation of Prof. Renner and THETA Aerospace results in a universal platform, customizable on a variety of applications. THETASAT is an outstanding platform for missions with high performance earth observation and multispectral analysis.



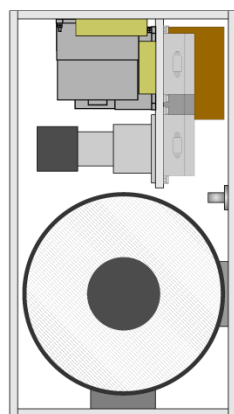
Prof. Renner with LAPAN-TUBSAT



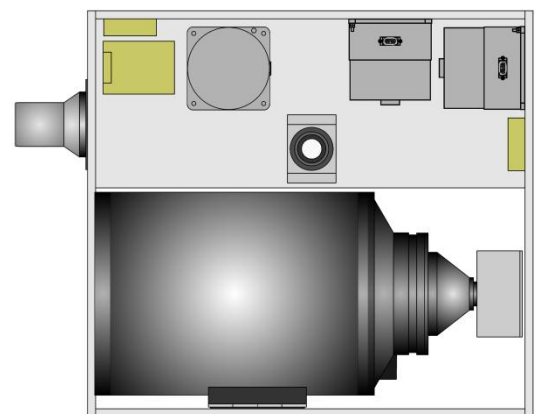
THETASAT solar panel
Front View



THETASAT solar double-panel
Bottom View



THETASAT inner design
Front View
Payload:
10"-Mirror Telescope



THETASAT inner design
Top View

Features

- ▶ KISS – Design (Keep it Simple Smart)
- ▶ Space Heritage, seven TUBSAT in orbit
- ▶ Interactive Attitude Control
- ▶ Ground station training with LAPAN-TUBSAT using DLR ground station Weilheim
- ▶ Laboratory training with air baring facility
- ▶ Star Sensor Control
- ▶ UHF / S-band communication
- ▶ Flexible design for custom demand
- ▶ Carrier for a variety of payload
- ▶ Special large telescopes for earth observation with ground resolution down to 1.5m.
- ▶ HDTV resolution camera.

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