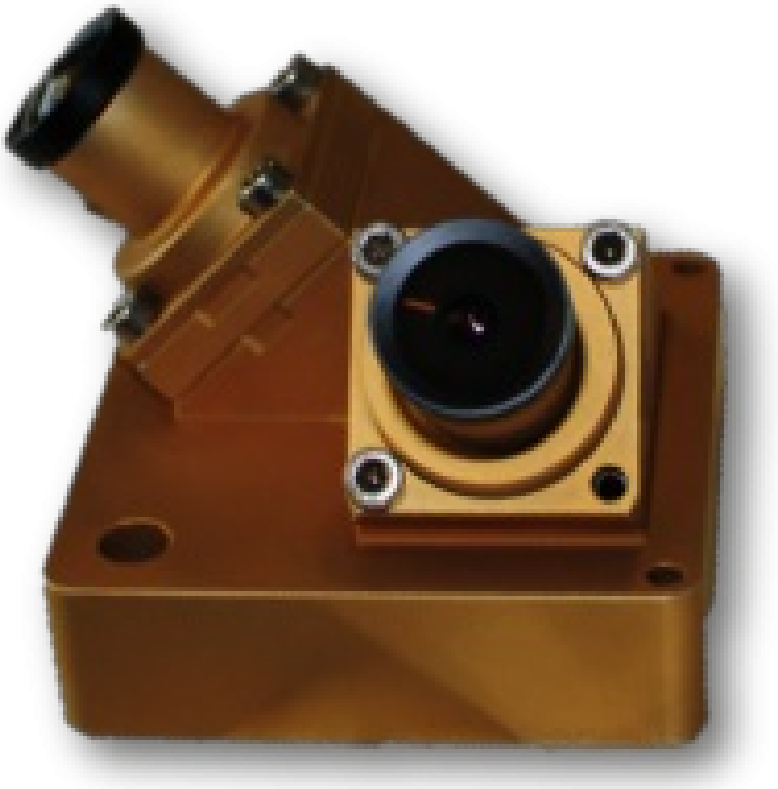

EARTH SENSOR

The Earth Sensor design by SITAEL is based on COTS. The core of the entire system is a Thermal Infrared micro-camera based on an uncooled microbolometer sensing device. It is able to acquire the Earth TIR emission in the wavelength interval from 7.5 µm to 14.5 µm which matches the Earth IR emission because of its black body temperature of about 288 K.

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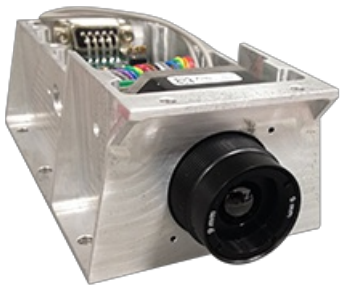

GPS RECEIVER

SITAEL GPS receiver is designed to perform real-time orbit determination on-board LEO satellites. The unit is based on two COTS front-ends kept in cold redundancy. Each front-end is individually protected against high current absorption events with a dedicated re-triggerable current limiter.

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MOMENTUM WHEEL

SITAEL Reaction/Momentum Wheel (RMW) is an attitude control device suitable for LEO orbits. Each RMW is capable to store up to 04 Nms angular moment and to provide up to 10 mNm control torque in a range between 0 and ±4000 rpm. The RMW structure has been optimized in order to provide high angular momentum storage in a reduced volume envelope (120x100x130 mm) and mass (up to 1.2 kg in the fully equipped version). Its internal components are guaranteed for a standard lifetime of about 2 years that could be extended depending on the operating conditions.

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