



GERMAN
ORBITAL
SYSTEMS

Functional Characteristics

Field of View	140°
Update Rate	Up to 10Hz
Precision	0.5°

Physical Characteristics

Mass	9.7g
Power	Ops:4.4mA / Sleep: 3mA
Outline Dimensions	81x36x9 (L x W x H)

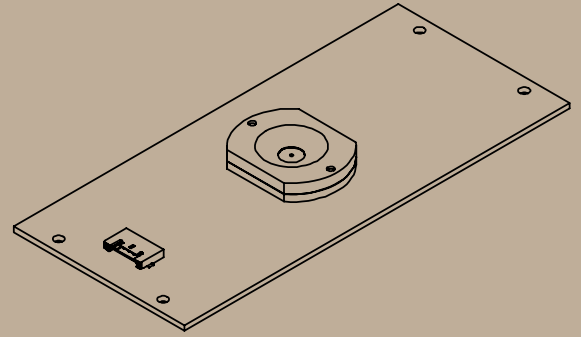
Qualification Data

Operating Temp.	-40°C to 80°C
Design Life Time	2yr LEO
Random Vibration	8 g RMS (6,7g Acc.)1000g shock

Interfaces

Power Supply	3.3V to 5V
Data Ports	Ops: I2C / Debug: UART
Mechanical	4 x 2.2mm through holes

SUN SENSOR



FEATURES

- Sun Sensor with 140° Field of View and 0.5° precision
- Temperature Indicator
- On board data processing
- I2C data output with an accuracy of 0.01°
- Small form factor
- Attitude calculation
- Orientation of Solar arrays towards the Sun
- Mounting on / near to solar arrays

HERITAGE

Our company is a spin-off from the TU Berlin. Being one of the most renowned addresses in Europe when it comes to satellite technology, the TU Berlin has successfully launched 10 satellites. Following the design philosophy and using the component base from these projects allows us to provide reliable and robust solutions for small satellites at a market transforming price.

Our sun sensor is a lightweight and cost-saving solution for small satellites. It is fully compatible with our CubeSat structures and solar arrays but can also be used as a sun sensor module for bigger satellites. The sensor features an I2C interface and requires no additional electronics.

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