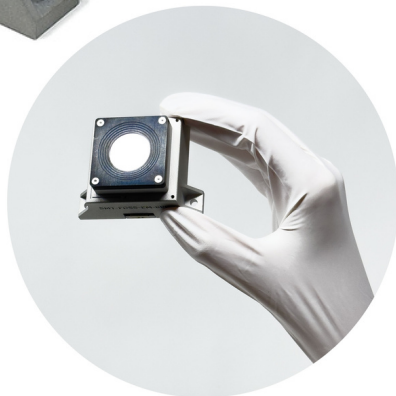
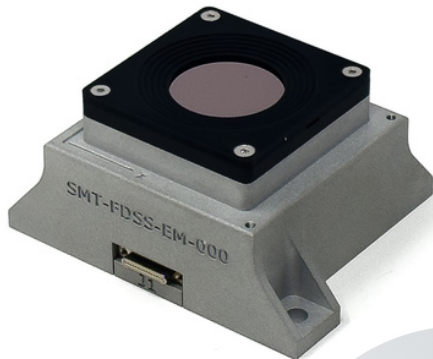


ITAR FREE & SPACE QUALIFIED (TRL 9)



Description

FDSS of Solar MEMS is a very accurate sun sensor immune to Earth albedo and any other unexpected albedo source. This sensor captures images of the Sun in less than one millisecond and identify the Sun and any other light source., allowing to collect extra information like albedo vector.

Its robustness is based on highly used COTS devices together with space grade parts, **and it is plug & play**, so it does not need any additional electronic support or module for operating.

Technical Characteristics

Type	Digital Sun Sensor
Full Field of View	140x140 °
Accuracy	Better than 0.1 degree
Maximum slew rate	> 10 °/s
Exclusion FOV	Custom
Electrical interface	RS 232 nanoD connector
Power supply	5V, 2W consumption
Mechanical interface	70 x 60 x 40 mm (170 g)

Qualification Data and Flight Heritage

Operating Temperature	-30° to 70° Celsius
Mechanical tests	Random RMS 14 gRMS Shock 1050 g at 2 kHz
EMC tests	MIL-STD 461G
Qualification	COTS camera with space heritage and space grade parts
Thickness of aluminum case	4mm
Radiation Hardness	20Krad

Albedo immune thanks to the included contouring algorithm

Assembly

