

The nanoSSOC-A60 is a volume, mass and power efficient sun sensor and the perfect ADCS solution for cubesats and other nanosatellite platforms. The Sun Sensor on a Chip (SSOC) architecture, achieved through MEMS fabrication processes, provides accurate tracking, pointing and attitude determination.

The low cost device measures the incident angle of sun rays in two orthogonal axes, leveraging the geometrical dimensions of the design to provide high sensitivity in a compact and robust package.

## Technical Characteristics:

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<b>Type</b>	2 orthogonal axes
<b>Field of View</b>	$\pm 60^\circ$
<b>Accuracy</b>	< 0.5 ° (3sigma) < 0.1 ° (precision)
<b>Electrical interface</b>	4 voltage outputs 10-pin micro-connector
<b>Power supply</b>	3.3V / 5V < 2mA consumption
<b>Mechanical interface</b>	27.4 x 14 x 5.9 mm 4 g
<b>Housing</b>	Aluminum 6082 Black anodizing



**Analog  
Space Qualified**

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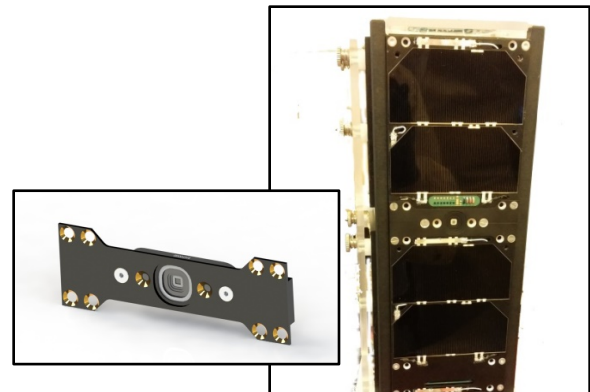


## Qualification Data and Flight Heritage:

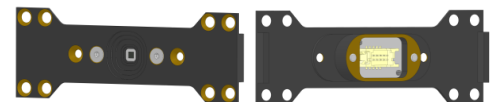
<b>Operating Temperature</b>	-30° to 85° Celsius
<b>Radiation</b>	> 100 kRad (gamma) 6 MeV 3000 kRad (protons)
<b>Random vibration</b>	14, 1g @ 20-2000 Hz
<b>Shock</b>	3000 g @ 1-100 ms

The unit includes MEMS technology from Solar MEMS, space grade electronic components and significant flight heritage. More than **50 flight models** have been delivered in support of more than 15 missions.

## Nano-Satellite Accommodation:



Compatible with most cubesat structures.  
Compatible with most OBCs.



Accommodation with structure



Accommodation with vertical support

## Mechanical Interface:

