

ITAR FREE

Space Qualified

Description

Nano Sun Sensor on a Chip (nanoSSOC) is a two-axes and low cost sun sensor for **high accurate** sun-tracking, pointing and attitude determination. The device measures the incident angle of sun ray in two orthogonal axes, providing a high sensitivity based on the geometrical dimensions of the design.

NanoSSOC-D60 includes a microcontroller that directly provides the sun light incident angles and other information useful for attitude determination, **via UART, I2C or SPI protocol. nanoSSOC-D60** has tiny size, low weight and low power consumption to be the perfect ADCS sensing solution for nanosatellite platforms.

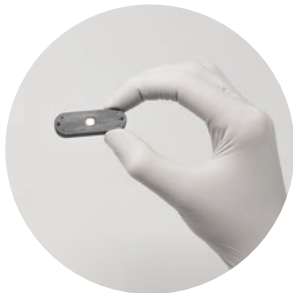
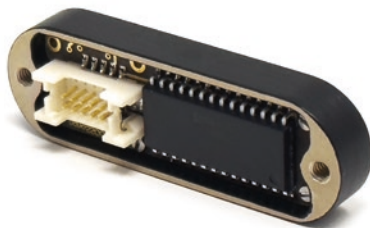
Qualification Data and Flight Heritage

Operating Temperature	-30° to 85° Celsius
Radiation	30 kRad
Random vibration	14,1g @ 20-2000 Hz
Shock	3000 g @ 1-100 ms

Flight heritage since 2016
with hundreds of units in orbit.

Technical Characteristics

Type	2 orthogonal axes
Field of View	±60° (customization available)
Accuracy	< 0.5° (3sigma) < 0.1° (precision)
Electrical interface	UART, I2C or SPI 10-pin micro-connector
Power supply	3.3V / 5V < 2mA consumption
Mechanical interface	43 x 14 x 5.9 mm 6.5 g
Housing	Aluminum 6082 Black anodizing



Mechanical Interface

