

CubeSense

Fine Sun and Earth sensor

Description

CubeSense is a CMOS based fine Sun and Earth sensor module. It consists of a control board in the form of a standard CubeSat sized PCB and two camera units. The camera units can either be soldered on the control board or connected through a harness. Each of these cameras can be configured as a Sun or an Earth sensor at order. The cameras are fitted wide angle lenses to provide a near 180° measurement FOV.



Ordering Information

Lead time	3 Months
Price	4 800 USD
Flight heritage	>10 Total years collective in-flight time

Performance Specification

Accuracy (3σ)	Sun: < 0.2° over full FOV Nadir: < 0.2 with full Earth in FOV
Update rate	1Hz

Electrical Specification

Operating voltage	3V3
Power consumption	150 mW (Average) 360 mW (Max)
I2C Bus Voltage	3V3
Communications	I2C/UART

Mechanical Specification

Mass (incl. cameras)	80g
Dimensions: PC104 board	90 x 96 x 10mm
Dimensions: camera modules	40 x 31 x 19mm
Operating temperature	-10°C to 70°C

CUBESPACE, THE LAUNCHLAB
STELLENBOSCH, CAPE TOWN
7600, SOUTH AFRICA



FACEBOOK/CUBESPACEADCS
WWW.CUBESPACE.CO.ZA
+27 21 808 9499