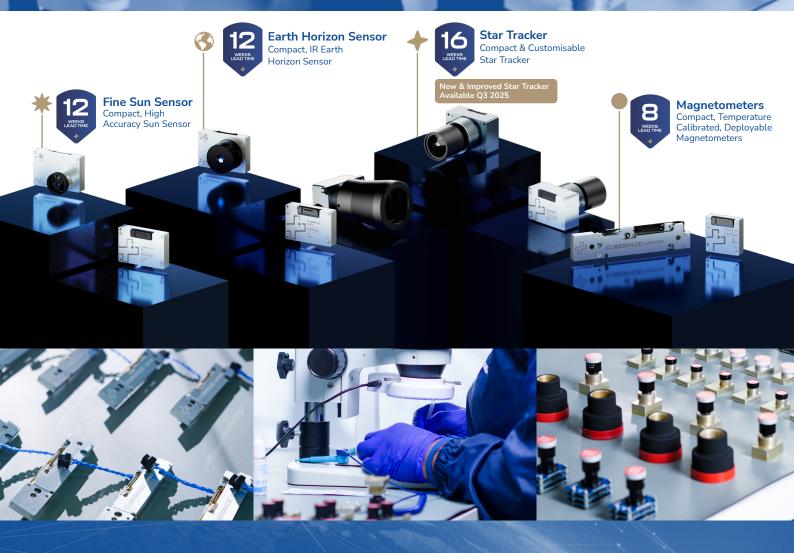
SENSORS

Compact range of Sun, Star, Horizon, and Magnetometers



NEW PRODUCT PARTNERSHIP

Introducing the Auriga Processing Unit

We are delighted to announce the product partnership between CubeSpace and Sodern!

Sodern's Auriga™ star tracker, known for its compact design and suitability for small satellite constellations, brings heritage of over 50 years and more than 1,500 units successfully operating in orbit.

With the in-house development of the Auriga processing unit, customers can seamlessly integrate the Auriga™ star tracker directly with our Turn-Key ADCS. This makes it an ideal choice for missions that demand high pointing accuracy, wider maneuvering capabilities, and exceptional performance throughout the orbit.



Auriga Processing Unit













	FINE SUN SENSOR	EARTH HORIZON SENSOR	STAR TRACKER*
PERMORMANCE			
Accuracy [°]	0.2° (roll and elevation) 2-sigma	1° (roll and elevation) 3-sigma	35° (cross-axis) 80° (roll) 3-sigma
Max slew rate [%]	70	14	0.3
PHYSICAL			
Mass [g]	15	18	71
Dimensions [mm]	35x24x22	35x24x20	43x34.6x61.3
Detection field of view [°] (Horizontal/vertical)	166	90/80	24/20
Detection field of view [°] (Diagonal)	176	90	32
Total Sun and Earth Exclusion Angle [°]	NA	NA	70
POWER AND DATA			
Data bus	CAN/RS485/UART/I2C		CAN/UART/RS-485
Connector	Molex Micro-Lock Plus		
Update rate [Hz]	Up to 2	Up to 2	Up to 1
Supply voltage [V]	3.3	3.3	3.3
Peak power [mW]	174	280	280
Average power [mW]	100	200	170 *Preliminary Specificat

	DEPLOYABLE MAGNETOMETER	COMPACT MAGNETOMETER	
PERFORMANCE			
Noise per channel [3-sigma] [nT]	50	120	
Linearity Error (Full Scale) [%]	0.6	0.6	
Sensitivity [nT]	13	25	
Field Measurement Range [G]	±8	±8	
PHYSICAL			
Mass [g]	16	6	
Dimensions [mm] *Height with protrusion is 9.6	17x82x6.5*	24x24x7.8	
POWER AND DATA			
Data bus	CAN/UART/RS-485	CAN/UART/I2C/RS-485	
Connector	Molex Micro-Lock Plus		
Update rate [Hz]	5	6	
Supply votage [V]	3.3	3.4	
Peak power [mW]	230		
Average power [mW]	50		
Deployment power [mW]	2 350	N/A	

AURIGA PROCESSING UNIT

PHYSICAL		
Mass [g]	55.5	
Dimensions [mm]	74.3 x 52.5 x 14.05	
POWER & DATA		
Data bus	CAN/UART/RS-485	
Connector	Molex Micro-Lock Plus	
Update rate [Hz]	5	
Supply voltage [V]	3.3 and 5.0	
Peak power [mW]	347/396 [1 OH/2 OH]	
Average power [mW]	326/381 [1 OH/2 OH]	

QUALIFICATION TEST			
Radiation	24 kRad		
Vibration	14.16g RMS (NASA GEVS)		
Shock	1500g		
Thermal (Vacuum) [°C]	-20 to 80 °C		
Thermal (Hot & Cold Start) [°C]	-35 to 70 °C		









