UAVSale

SNC200C-IMU MEMS Inertial Measurement Unit

MD-P00343 · md-snc200c-imu-mems-inertial-measurement-unit

SNC200C-IMU MEMS is a domestic inertial measurement unit (IMU) based on MEMS technology. It has built-in high-performance MEMS gyroscope and MEMS accelerometer, and outputs 3 angular velocities and 3 accelerations.

TECHNICAL SPECIFICATIONS

parameter	Test conditions / index
Gyro	Dynamic measurement range / 450-2000 / S (optional)
Zero bias stability	10s average (- 40 ℃ ~ + 70 ℃) / 15 /h
Zero bias	Zero bias range / 0.2 /s
Zero bias change in full temperature range	Soil 0.1 / s
Start repeatability	30 /s
Influence of vibration on zero bias	10 /s/g
Scale factor nonlinearity	500ppm
Resolving power	three point zero five two 10-7 /s/LSB
Bandwidth	200Hz
Accelerometer	Dynamic measurement range / 16g
10s average zero bias stability (- 40 ℃ ~ + 70 ℃, constant temperature)	0.5mg
Full temperature zero bias change	5mg
Other	Start time / 2s
delayed	10ms
Nonlinearity	0.5%FS
Reliability	MTBF / 20000h
Continuous work	120h
relative error	2.5 mbar
▶ Three axis digital gyroscope	450 / s dynamic measurement range, zero bias stability: 20 / h (GJB, 10s);
▶ Three axis digital accelerometer	16g dynamic measurement range, zero bias stability: 0.5mg (GJB, 10s);
▶ High reliability	MTBF > 20000h, suitable for working under strong vibration conditions, interface and one-way UART;

Voltage	3.3V
Power consumption	＜ 1.5W
Size	58.7mmx42mmx8mm
Weight	＜ 35g
Operating temperature	- 40 ℃ ~ + 70 C
Storage temperature	- 45 ℃ ~ + 75 ℃
Vibration	20 ~ 2000Hz, 6.06g
Impact	500g, 0.5mg
MTBF	>20000h
Continuous working time	> 120h
1-way UART	500Hz

CERTIFICATION

Certification status is confirmed per order and is not published in the catalogue listing. Request the current declaration, test reports or conformity certificates from our sourcing team.

ORDERING INFORMATION

Model	SNC200C-IMU MEMS Inertial Measurement Unit
Part number	MD-P00343
Lead time	30 days
Minimum order	1 unit
Supply	made_to_order

Generated from the UAVSale product catalogue. Figures are manufacturer-supplied and subject to configuration. For the current revision and full documentation set, contact our sourcing team.