UAVSale

SNC200A-IMU MEMS Inertial Measurement Unit

MD-P00342 · md-snc200a-imu-mems-inertial-measurement-unit

SNC200A-IMU MEMS Inertial Measurement Unit is an 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 ℃) / 3 /h
Zero bias	Zero bias range / 0.03 /s
Zero bias change in full temperature range	Soil 0.02 / s
Start repeatability	0.003 /s
Influence of vibration on zero bias	0.002 /s/g
Scale factor nonlinearity	0.01%FS
Resolving power	three point zero five two 10-7 /s/LSB
Bandwidth	200Hz
Accelerometer	Dynamic measurement range / 16g-200g available
10s average zero bias stability (- 40 ℃ ~ + 70 ℃, constant temperature)	0.2mg
Full temperature zero bias change	5mg
Magnetometer	Dynamic measurement range / 2.5 gauss
sensitivity	0.1 mgauss/LSB
Nonlinearity	0.5%FS
Barometer	Pressure range / 450~1100 mbar
Total error	4.5 mbar
relative error	2.5 mbar
Voltage	3.3V
Power consumption	＜ 1.5W
Size	47mmx44mmx14mm
Weight	＜ 50g

Operating temperature	- 40 ℃ ~ + 60 C
Storage temperature	- 45 ℃ ~ + 75 ℃
Vibration	20 ~ 2000Hz, 6.06g
Impact	1000g, 0.5mg
MTBF	>20000h
Continuous working time	> 120h
One SPI	sampling frequency within 1000Hz can be configured
1-way UART	200Hz
1 channel can	200Hz

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	SNC200A-IMU MEMS Inertial Measurement Unit
Part number	MD-P00342
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.