UAVSale

SNC500A High Precision Integrated Navigation System

MD-P00337 · md-snc500a-high-precision-integrated-navigation-system

SNC500A fiber integrated navigation system is based on high-precision closed-loop fiber optic gyroscope, accelerometer and high-end GNSS receiving board, through multi-sensor fusion and rotation modulation navigation solution algorithm, to provide high-precision attitude, speed and position informat

TECHNICAL SPECIFICATIONS

Project	Test conditions / A0 index / B0 index
Positioning accuracy	GNSS valid, single point / 1.2m（RMS） / 1.2m（RMS）
GNSS valid, RTK	2cm+1ppm（RMS） / 2cm+1ppm（RMS）
Positioning hold (GNSS failure)	1.5nm/h（50%CEP）， 5nm/2h（50%CEP） / 0.8nm/h（CEP）， 3.0nm/3h（CEP）
Heading accuracy	Pelf seeking north / 0.1 Sec (lati), lati is latitude (RMS), 10min / 0.06 Sec (lati), static base alignment for 5min;0.03 Sec (lati), static base alignment for 10min;Where lati is latitude (RMS)
Pourse hold (GNSS failure)	0.05 /h（RMS）， 0.1 /2h（RMS） / 0.02 /h（RMS）， 0.05 /3h（RMS）
Attitude accuracy	GNSS valid / 0.03 （RMS） / 0.01 （RMS）
Attitude hold (GNSS failure)	0.02 /h（RMS）， 0.06 /2h（RMS） / 0.01 /h（RMS）， 0.03 /3h（RMS）
Speed accuracy	GNSS valid, single point L1 / L2 / 0.1m/s（RMS） / 0.1m/s（RMS）
Speed hold (GNSS failure)	2m/s/h（RMS）, 5m/s/2h（RMS） / 0.8m/s/h（RMS）, 3m/s/3h（RMS）
Fiber optic gyroscope	Measuring range / 400 /s / 400 /s
Zero bias stability	0.02 /h / 0.01 /h
Quartz flexible accelerometer	Measuring range / 20g / 20g
Communication interface	RS422 / 6The baud rate is 9.6kbps ~ 921.6kbps, the default is 115.2kbps, the maximum frequency is 1000Hz (original data), and the default is 200Hz
RS232	1The baud rate is 9.6kbps ~ 921.6kbps, the default is 115.2kbps, the maximum frequency is 1000Hz (original data), and the default is 200Hz
Electrical characteristics	Voltage / 24～36VDC
Power waste	30W
Structural characteristics	Size / 199mm 180mm 219.5mm
Weight	6.5kg / 7.5kg (non aviation) 6.5kg (aviation optional)
Use environment	Working temperature / -40℃~+60℃

Storage temperature	-45℃~+65℃
Vibration (with damping)	5~2000Hz，6.06g
Impact (with damping)	30g，11ms
Reliability	life / >15 years
Continuous working time	>24h

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	SNC500A High Precision Integrated Navigation System
Part number	MD-P00337
Lead time	30 days
Minimum order	1 unit
Supply	made_to_order

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