## MNAV-INS High-precision Inertial Navigation System

Built-in high-performance MEMS Inertial Measurement Unit (IMU) and a full-system, full-frequency, high-precision positioning and orientation module, outputting information such as the carrier's attitude, heading, position, and speed. When GNSS is not available, it can continuously output inertially calculated position, velocity, and attitude information, keeping navigation accuracy.



## **Parameters**

Features		Positioning Accuracy	
Built-in high-performance MEMS gyroscope and accelerometer.		GNSS Effective (Single)	Horizontal: 1.2m / Elevation: 2.5m Horizontal: 0.8 cm+1 ppm
<ul> <li>Inertial navigation capability when GNSS is invalid.</li> <li>Accuracy guaranteed within the -40~70°C range.</li> <li>Features sway and dynamic base alignment functions.</li> </ul>		GNSS Effective (RTK) GNSS Invalid	Elevation: 1.5 cm+1 ppm <20m (Failure 60s)
Outputs raw data of IMU and satellite navigation board.		Attitude Accuracy	
Heading Accuracy		GNSS Effective	0.1°
Dual GNSS	0.1°, 2m baseline (RMS)	Inertial / Odometer Combined	
Single GNSS	0.1°	V-G Mode	< 2°
Magnetic Combined Accuracy	2° (GNSS Invalid)	Gyroscope	
Satellite Board		Measurement Range	± 450°/s
Cold Start	35 s	Zero Bias Stability	2 °/h
Warm Start	5 s	Accelerometer	
Receiver Type	GPS+GLO+BDS	Measurement Range	± 16g
Mechanical	≤ 4 g	Zero Bias Stability	30µg
Velocity Altitude	≤ 500 m/s ≤ 80000 m	Environment	
General		IP Protection Rating	IP65
Voltage Power	5~36 VDC ≤ 3W	Operating Temperature Vibration Shock	-40 ~ 70°C 20~2000 Hz, 6.06 g
Dimensions	80*53*23 mm	MTBF	30 g, 11 ms 30000 h
Weight	≤ 150g		

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