

GNSS/INS 紧密组合系统 ZCZ100

ZCZ100 小型化 MEMS 紧密组合导航系统采用紧耦合技术将高精度、低功耗、16 通道、单频 GNSS 接收机输出的原始载波相位及伪距和 MEMS 惯性测量单元紧密结合，具有体积小、重量轻、性价比高等特点。

ZCZ100 紧密组合导航系统可提供水平姿态、航向等定姿信息，经度、纬度、高度等定位信息，以及三维加速度、角速度等惯性测量信息；并可通过扩展里程计、高度气压计等辅助传感器进一步提高系统精度和适用性，可广泛应用于无人机、交通工具导航、航空和平台稳定控制等领域。

应用范围

- 无人飞行器
- 航空
- 平台稳定
- 长途运输
- 船舶姿态的动态测量
- 采矿和自动耕作
- 火车和集装箱跟踪

特点

- GNSS/INS 紧密结合；
- 价格低廉，体积小，重量轻；
- 全密封可靠设计，保证恶劣环境下可正常工作；
- 抗振动冲击和电磁干扰；
- 可扩展里程计或高度气压计等传感器（可选）。

ZCZ100 miniaturized MEMS based tightly integrated navigation system applies tight integration technology to combine the original carrier phase and pseudorange from a 16-channel high-accuracy low-power L1 GNSS receiver with MEMS Inertial Measurement Unit (IMU). The system is featured as small size, light weight and high cost performance.

ZCZ100 tightly integrated navigation system provides attitude information (such as horizontal attitude and heading), positioning information (such as longitude, latitude and altitude) and inertial measurement information (such as 3D acceleration and angular rate). Its measurement accuracy and applicability can be further extended by assistant sensors such as odometer or barometric altimeter etc. It can be widely applied in fields of UAV, transportation navigation, aviation and platform stabilization, etc.

Applications

- UAV
- Aviation
- Platform Stabilization
- Long-Haul Transportation
- Marine Dynamics
- Mining and Auto-Farming
- Train & Container Tracking

Features

- Tightly integrated GNSS/INS;
- Low-cost, small size and light weight;
- Reliable rugged-design to safeguard stable performance under harsh environment;
- Vibration & shock resistance, and EMI resistance;
- Extendable with odometer or barometric altimeter, etc. (optional).

