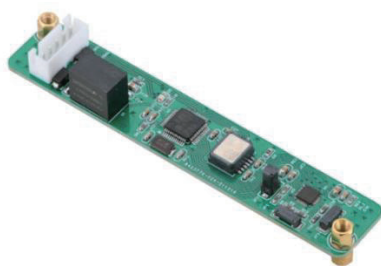


C9000-B: HIGH PRECISION SIX-AXIS FULL ATTITUDE ELETRONIC COMPASS SINGLE BOARD

■ PRODUCT DESCRIPTION

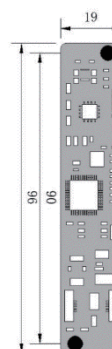


C9000-B is a high-precision 6-axis full attitude electronic compass launched by MXMW Hi-Tech Company. It is a rectangular shape with a width of only 1.9cm and consists of an industrial grade microcontroller with high reliability and strong anti-interference ability, as well as high-precision inclination sensors, magnetic sensors, and driving chips. The independently developed hard and soft magnetic calibration algorithms enable the compass to eliminate the influence of magnetic fields even in environments with magnetic field interference through calibration algorithms; The patented inclination compensation algorithm compensates for the heading of a large range of inclination angles.

■ PRODUCT MAIN SPECIFICATION

■ PRODUCT DIMENSION

| Parameter | C9000-B | |
|--------------------------------|----------------------------------|---|
| Compass heading parameters | Heading accuracy | 0.3~0.5° (RMS, pitch<85°) |
| | Resolution | 0.1° |
| | Repeatability | 0.05° |
| Compass inclination parameters | Pitch accuracy | 0.1° |
| | Roll accuracy | 0.01° (pitch<15°) 0.02° (pitch<50°) 0.05° (pitch<80°) |
| | Inclination angle resolution | 0.005° |
| | Inclination range | Pitch ±90°; Roll 360° |
| Calibration | Hard iron calibration | Yes |
| | Soft iron calibration | Yes |
| | Tilt calibration | Yes |
| Physical properties | Size | L96*W19*H8 (mm) |
| | Weight | 10g |
| | RS-232/RS485 interface connector | 5-pin aviation connector |
| Interface features | Startup delay | <50ms |
| | Maximum sampling rate | 50 times/second |
| | RS-232 communication rate | 2400~19200 baud rate |
| | RS-485 communication | optional |
| | TTL communication | optional |
| | Output format | hexadecimal |
| Power supply | Support voltage | DC+5V (9~36V) |
| | Current (max) | 40mA |
| | Working mode | 30mA |
| Environment | Storage range | -40°C--+125°C |
| | Working temperature | -40°C--+85°C |
| | Vibration resistance | 3000g |



SIZE: L96*W19*H8MM

■ PRODUCT APPLICATION

- Individual combat equipment
- Petroleum geological logging
- Underwater navigation
- Navigation GPS
- Marine survey
- Ship navigation attitude measurement
- Accurate laser platform equipment
- Unmanned aerial vehicles (UAV)
- Based on inclination monitoring