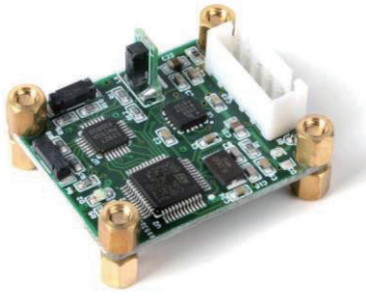


C9-D: INCLINATION COMPENSATION 3-D ELECTRONIC COMPASS SINGLE BOARD

■ PRODUCT DESCRIPTION

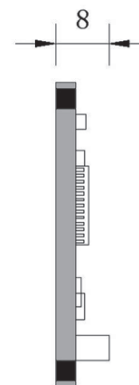
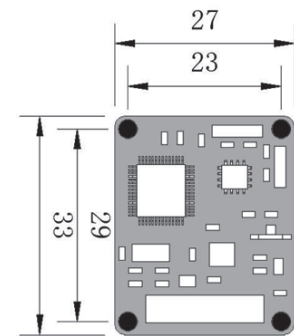


C9-D is a high-precision three-dimensional electronic compass. It has self-developed core 3D compensation algorithm technology, so that it can still provide accurate heading data even when the product is tilted at an angle of $\pm 40^\circ$. The product is small in size and has low power consumption. It can be used in many fields such as antenna stabilization, vehicles, and system integration. Its high shock resistance and high reliability also allow the compass to work normally in extremely harsh environments, making it more suitable for today's miniaturized and high-voltage applications. Accurate measurement integrated control system.

■ PRODUCT MAIN SPECIFICATION

| Product performance indicators | | C9-D |
|--------------------------------|----------------------------------|---|
| Compass heading parameters | Heading accuracy | 1° (RMS, pitch<45°) |
| | Resolution | 0.1° |
| | Repeatability | 0.3° |
| | Measuring range | 0-360° |
| | Tilt range | $\pm 40^\circ$ |
| Compass tilt parameters | Pitch accuracy | 0.15° |
| | Roll accuracy | 0.15° |
| | Tilt resolution | 0.01° |
| | Measuring range | Pitch $\pm 90^\circ$; Roll $\pm 180^\circ$ |
| Calibration | Hard iron calibration | have |
| | Soft iron calibration | have |
| | Tilt calibration | have |
| Physical properties | Size | L33 x W27 x H8(mm) |
| | Weight | 8g |
| | RS-232/RS485 interface connector | 5 pins |
| 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 high-performance protocol |
| Power supply | Support voltage | DC+5V (9~36V can be customized) |
| | Current (maximum) | 40mA |
| | Operating mode | 30mA |
| Environment | Storage range | -40°C--+125°C |
| | Operating temperature | -40°C--+85°C |
| | Anti-vibration performance | 2600g |

■ PRODUCT DIMENSION



SIZE: L33*W27*H8MM

■ PRODUCT APPLICATION

- Communication equipment on the move
- Petroleum Geology Logging
- underwater navigation
- Marine survey
- AGV vehicle patrol
- Based on tilt monitoring
- Satellite solar antenna positioning
- Unmanned flight control
- GPS and Beidou navigation
- Ship navigation attitude measurement