SinoGNSS®
By ComNav Technology Ltd.

K726 OEM Board

Features

⚙ **GPS L1/L2, BeiDou B1/B2, GLONASS L1/L2, SBAS**

⚙ **Dual-antenna Design for Robust Heading and Positioning**

⚙ **Advanced QUANTUM™ Technology**

⚙ **DP-Filter Smooth Function[1]**

⚙ **Support PPS and Event Marker**

DUAL-ANTENNA INPUT

The K726 is a single GNSS board that delivers robust heading and positioning. With dual-antenna input design, observations from both antennas are transferred to the processor where multi-constellation RTK are computed. It is able to deliver centimeter-accuracy positioning and high-precision heading both in static and dynamic environments.

MULTI-CONSTELLATION GNSS

The K726 is capable of tracking GPS L1C/A, L2C, L2P; BeiDou B1, B2; GLONASS L1C/A, L1P, L2C/A, L2P and SBAS. Using the advanced QUANTUM™ technology combined with upgraded SinoGNSS ASIC chip and Microprocessor unit, the K726 GNSS Receiver provides robust 404 channels for multi-constellation tracking performance.

STRONG COMPATIBILITY

Following the standard form factor, the K726 is designed for strong compatibility and ease of integration. With the standard I/O and pin definitions, the K726 is compatible with major GNSS manufacturers from physical design to data formats, which also ensures a seamless replacement for customers who used SinoGNSS.

FLEXIBLE INTERFACING

The K726, a multi-purpose GNSS product, is a wise choice for precision agriculture, UAV and intelligent transportation system with high-accuracy positioning and heading requirements. Customers also benefit from its compact design and lower power consumption. With PPS and Event Marker functions, the K726 always meets your high-accuracy application demands.

Signal Tracking

- 404 channels
  - GPS: L1 C/A, L2C, L2P
  - BeiDou: B1, B2
  - GLONASS: L1 C/A, L1P, L2 C/A, L2P
  - SBAS: WAAS, EGNOS, MSAS, GAGAN

Performance Specifications

- Cold start: <50 s
- Warm start: <30 s
- Hot start: <15 s
- RTK Initialization time: <10 s
- Signal reacquisition: <1.5 s
- Initialization reliability: >99.9%
- Velocity accuracy: 0.03 m/s
- Acceleration: 4 g
- Overload: 15 g

Heading Specifications

- Azimuth: $(0.2/R)°$ [2]
- Roll or Pitch: $(0.4/R)°$

Positioning Specifications

Mode	Accuracy
Post Processing	2.5 mm + 1 ppm Horizontal 5 mm + 1 ppm Vertical
Single Baseline RTK	8 mm + 1 ppm Horizontal 15 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS

Communications

- 3 LV-TTL ports, baud rates up to 921,600 bps
- 1 USB port
- 2 CAN Bus (Reserved)
- 1 Pulse Per Second (PPS) output
- 2 Event Marker input
- 4 LED working status indicators

Data Format

- Correction data I/O: RTCM 2.X, 3.X, CMR (GPS only), CMR+(GPS only)
- Position data output:
  - ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GGK
  - ComNav Binary
  - BINEX Data: 0x00, 0x01-01, 0x01-02, 0x01-05, 0x7d-00, 0x7e-00, 0x7f-05
  - Position data output rate: 1 Hz, 2 Hz, 5 Hz,10 Hz, 20 Hz, 50 Hz

Physical

- Size (L × W × H): 71 mm × 46 mm × 9 mm
- I/O interface: 2 × 12 pin male connector
- Weight: 27.2 g
- Antenna connector: 2 × MMCX female, 50 Ω

Environmental

- Working temperature: -40 °C to + 85 °C
- Storage temperature: -55 °C to + 95 °C
- Humidity: 95% no condensation

Electrical

- Input voltage: +3.3 V ~ +5.5 VDC
- Power consumption: 1.96 W

Software

- ComNav Compass Receiver Utility software
- Compass Solution software

Optional accessories

- AT-series GNSS antenna
- OEM Board Evaluation Kit
- 5 m/10 m RF Cables

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1. DP-Filter smooth function largely improves the pass to pass accuracy. Please refer to white paper for more information on our official website.

2. R (meter) is the length of two GNSS Antennas.

Specifications subject to change without notice.