

The LOCOSYS logo is located in the top right corner, featuring the brand name in white capital letters on an orange rectangular background.

RTK-4671-SHPF

Single-Frequency, Multi-Constellation

RTK-4671-MHPF

Dual-Frequency, Multi-Constellation



High-Precision GNSS RTK Board for Accurate Positioning & Heading Solution

LOCOSYS RTK-4671-SHPF/MHPF is a high-precision GNSS RTK board for accurate positioning and heading. This board offers real-time, cost-efficient and cm-level positioning as well as flexible interfaces, inside great anti-jamming performance (due to multi-tone active interference canceller) for a variety of applications, such as precision navigation, precision agriculture, surveying and UAVs.

Centimeter-Level Positioning / Support Rover & Base Solutions

The RTK-4671-SHPF/MHPF is a cost-efficient GNSS RTK board for cm-level positioning and accurate raw measurements output, which can be integrated with autopilots and drone. RTK-4671-SHPF/MHPF board supports GPS, GLONASS, BDS, GALILEO, QZSS and SBAS constellations to improve the continuity and reliability of the RTK solution even in harsh environment. It features powerful compatibility with other GNSS boards in the market by flexible interfaces, smart hardware design and popular log/command formats adopts Real Time Kinematics (RTK) technology with the correction data from CORS network. It also supports both rover and base solutions for those which do not have public CORS network, compact solution and the best-in-class low-power solution for precise positioning application.

The RTK-4671-SHPF/MHPF can work as an independent positioning system and it can also be integrated with other host devices. Its popular interface and log/command format make it compatible with most of the OEM boards in market.



Features

- Low cost, commercial chip level, with high precision and accuracy
- Centimeter-level positioning in RTK mode
- Support GPS, GLONASS, BeiDou, GALILEO and QZSS L1
- Capable of SBAS (WAAS, EGNOS, MSAS) Precise navigation, positioning
- Great anti-jamming performance (due to multi-tone active interference canceller).
- Dual antenna input and precise heading calculation
- Current limited feature (limited to 50mA typ.) with each active GNSS antennas
- 2x 99 channels each independent signal chains
- Heading Accuracy (RMS) < 0.2 degree
- Industrial operating temperature range -40 to +85°C
- Low-power consumption and compact size
- Easy and simply to integrate
- LOCOSYS IATF 16949 certified production sites.

Model	RTK-4671-SHPF	RTK-4671-MHPF
Type	Embedded Board	Embedded Board
GNSS Frequency	Single-band	Multi-band
Heading	●	●
Base Station/Rover	●	●
Constellations	GPS, GLONASS, Galileo BeiDou, QZSS	GPS, GLONASS, Galileo BeiDou, QZSS
GNSS Position Accuracy	1.5m CEP	1.5m CEP
RTK Accuracy	0.01m + 1ppm CEP	0.01m + 1ppm CEP
Heading Accuracy	< 0.2 deg	< 0.2 deg
Update Rate	1HZ	1HZ / 4HZ
RTCM Input	●	●
Windows Software	●	●
Operating Temp	-40°C to +85°C	-40°C to +85°C
Dimension	46*71*7.7mm	46*71*7.7mm
Manufactured	IATF 16949	IATF 16949

Application

- ◎ Autonomous Vehicle Guidance
- ◎ Unmanned Aerial Vehicles
- ◎ Precision Agriculture
- ◎ AGV Robotics
- ◎ V2X / ETC / 5G Station
- ◎ Structural / Land Monitoring
- ◎ Offshore / Marine Application