

GNSS RECEIVER MRY100C



HIGH-PERFORMANCE GNSS RECEIVER FOR POSITIONING APPLICATIONS

Product Description

MRY100C is a high-performance GNSS receiver that can achieve high-precision positioning and orientation functions. Data communication link supports 4G network and frequency hopping radio communication modes, which can realize differential positioning service in various environments, and can also be attached to other data links to provide attitude data for carriers. The products are mainly used in uav, robot, vehicle-mounted and other fields, such as robot high-precision positioning solutions, precision agricultural mobile stations and base stations, vehicle-mounted and shipborne equipment, etc.

Application Field

- Robot high-precision positioning solution
- Precision agriculture mobile station and base station
- Vehicle-mounted, ship-borne equipment

KEY FEATURES

- RTK carrier differential positioning technology is used to achieve
- Supports single-card and dual-card working modes and more stable data links
- centimeter high precision positioning
- Rich data interfaces Provides network, serial port, CAN, and PPS interfaces
- Support short distance radio differential mode and long distance network mode
- High reliability, high integration, small size, and support for firmware upgrade



GNSS RECEIVER

MRY100C



PERFORMANCE

Signal Received

GPS	L1C/A L2C
GLONASS	L1OF L2OF
BDS	B1I B2I
GALILEO	E1B/C E5b
QZSS	L1C/A L2C

RTK

Frequency	Maximum 20Hz
Lock Time	< 10 sec

Direction Finding

Accuracy 0.2 degrees/1m baseline

Antenna AR ≤ 3.0 dB

Positioning Accuracy

Single Point Positioning 2.0m CEP

RTK 0.02m + 1ppm CEP

Speed Accuracy(RMS) 0.03m/s

Data Rate (max) 20Hz

COMMUNICATION LINK

4G1 Mobile, Unicom, Telecom

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Radio 400M/800M Frequency Hopping Radio

Bluetooth module 2.0 & 4.0

MECHANICAL

Dimensions 225×120×60mm

Connector

Directional Positioning Antenna TNC (Female)

Radio Antenna TNC (Female)

4G Antenna SMA (Female)

Weight ≈ 1 kg

Waterproof and Dustproof Grade IP67

Bluetooth Connection Distance 10m

Operating Voltage 9~30V

Power Consumption (typ.)

Built-in radio (4W) 12V DC

Built-in 4G module (5W) 12V DC

ENVIRONMENTAL

Temperature

Operating -20°C to +85°C

Storage -40°C to +85°C

Humidity 95% non-condensing

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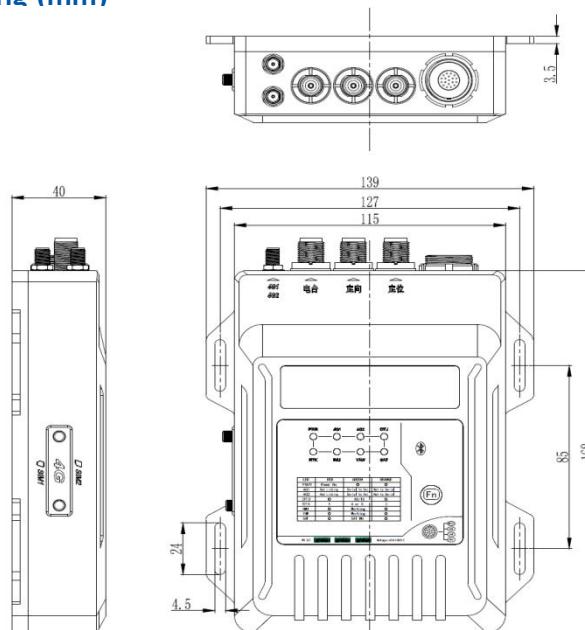
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Structure & Phase Center Drawing (mm)



Undeclared tolerance: ± 0.3 mm