

# LIANSHI



## R21 GNSS Receiver

### Overview

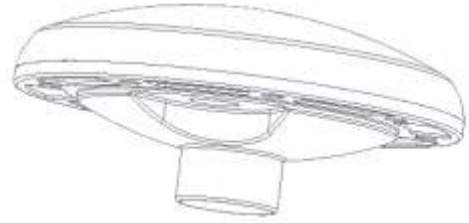
The Lianshi R21 supports the L1 frequency from the GPS, GLONASS, BDS constellations. An L1 RTK engine delivers 2 centimeter positions. It is widely used in machine drill application and Ag guidance.



# R21 GNSS Receiver

## Features

- Multi-satellite system for complex environments;
- Highly integrated with the GNSS antenna and OEM board;
- Small size, easy to install.
- L1 RTK centimeter level position accuracy



## DataSheet

### PERFORMANCE

Signal Tracking

GPS: L1

GLONASS: L1

BDS: B1

SBAS

Maximum Data Rate

Position: 1Hz, 5Hz, 10Hz

Horizontal Position Accuracy (RMS)

Single Point L1: 1.5m

Code differential GNSS positioning

SBAS: 0.5m

SBAS: 0.3m (Path to Path)

Initialization time: typically<40 seconds

Initialization reliability: typically>99.9%

Time to First Fix

Cold start: <50 seconds

Hot start: <35 seconds

Signal Reacquisition

L1: <1 seconds (typical)

Velocity Accuracy

0.03 m/s RMS

### COMMUNICATION PORTS

1 RS-232 serial ports,Baud rate: 9600-115200

Data Formats

Data output: NMEA-0183, raw data

### ENVIRONMENTAL

Temperature

Operating -40 °C ~ +70 °C

Storage -45 °C ~ +80 °C

Humidity: 95% non-condensing

Environment protection: IP65

### PHYSICAL AND ELECTRICAL

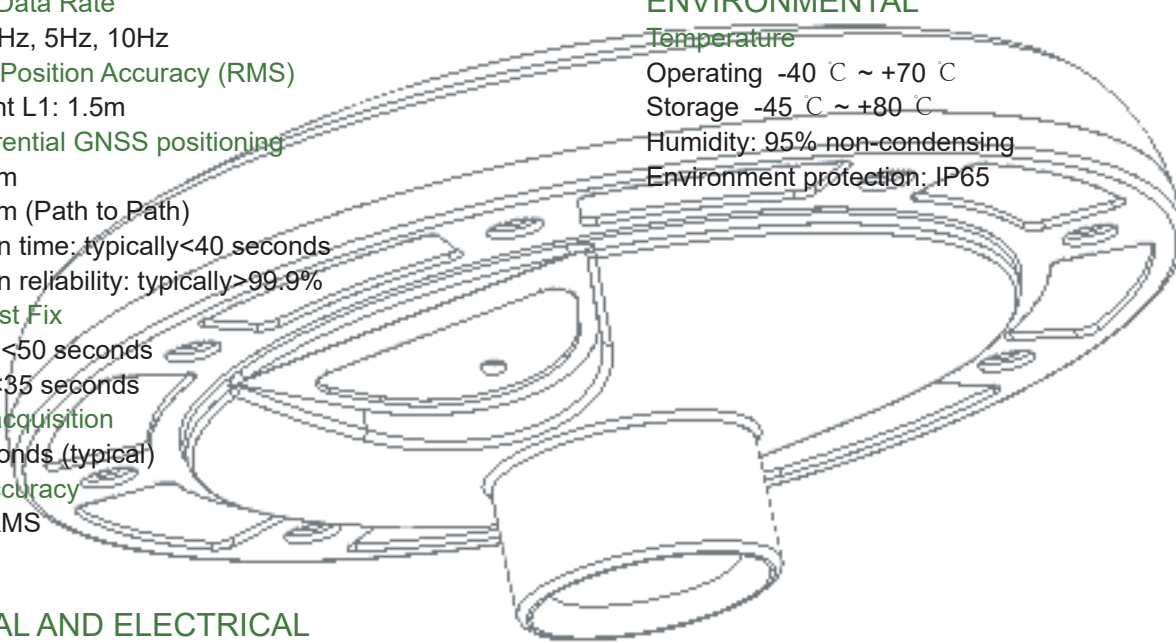
Dimensions: 134mm X 75mm

Weight: 460g

Power

Input voltage: DC 6V ~ 28V, with polarity reverse protection

Power consumption: ≤ 3.0W



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