

# LIANSHI



## R23 GNSS Receiver

### Overview

The Lianshi R23 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.

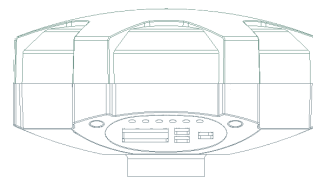




# R23 GNSS Receiver

## 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

SBAS: 0.5m

SBAS: 0.3m Path to path

Real Time Kinematic Surveying

Horizontal : 10mm+1ppm

Vertical : 20mm+1ppm

Initialization time: typically<60 seconds

Initialization reliability: typically>99.9%

Time to First Fix

Cold start: <45 seconds

Hot start: <30 seconds

Signal Reacquisition<2 seconds Velocity

515 m/sec

### PHYSICAL AND ELECTRICAL

Dimensions: 134mm X 75mm

Weight: 460g

Power

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

Power consumption: ≤ 3.0W

### COMMUNICATION PORTS

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

Radio Modem (optional) : fully integrated,

sealed 450 MHz wide band receiver/transmitter

with frequency range of 410MHz to 470MHz

Radio protocols: TRIMTALK, TRANSEOT

-Transmit power: 1W

-Range: 3-5Km typical

Bluetooth: fully integrated, fully sealed 2.4GHz

communications port(blueetooth)

Data Formats

-NMEA-0183, raw data

-CMR, CMR+, RTCM2.3, RTCM3.0,

RTCM3.1, RTCM3.2

### ENVIRONMENTAL

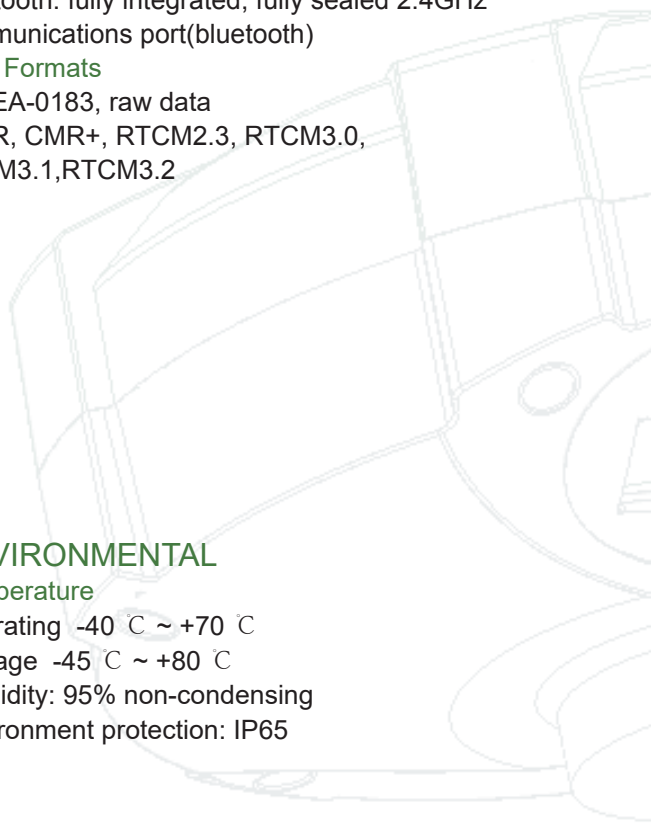
Temperature

Operating -40 °C ~ +70 °C

Storage -45 °C ~ +80 °C

Humidity: 95% non-condensing

Environment protection: IP65



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