

LIANSHI



R30 GNSS Receiver



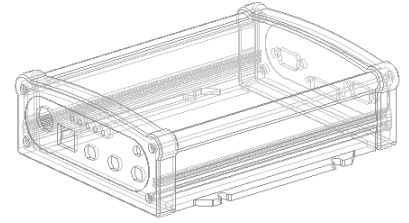
Overview

The Lianshi R30 receiver is a GNSS receiver designed to provide Ag and MC professionals with maximum features and flexibility. The receiver's compact form factor, powerful feature set make for an ideal combination supporting a wide range of high-accuracy positioning applications, including: RTK rover; mobile field base station; post processed data collection.

R30 GNSS Receiver

Features

- Available with internal radio or no radio;
- Available with integrated 3G or without it,
- Standard Ethernet communication interface is convenient to data high-speed network transmission;
- Can be configured as base station or mobile station to support a variety of operating modes.



DataSheet

PERFORMANCE

Channel Configuration: 384 channels

Signal Tracking

GPS: L1,L2,L2C,L2P,L5

GLONASS: L1,L2

BDS: B1,B2,B3

SBAS

Maximum Data Rate

Measurements: 1Hz, 2Hz, 5Hz, 10Hz, 20 Hz

Position: 1Hz, 2Hz, 5Hz, 10Hz, 20 Hz

Horizontal Position Accuracy (RMS)

Single Point L1: 1.5m

Single Point L1/L2: 1.2m

Code differential GNSS positioning

SBAS: 0.6m

DGPS: 0.4m

Static GNSS surveying

Horizontal: 5mm+1ppm

Vertical: 10mm+1ppm

Real Time Kinematic surveying

Horizontal: 10mm+1ppm

Vertical: 20mm+1ppm

Time to First Fix

Cold start: <50 seconds

Hot start: <35 seconds

Signal Reacquisition

L1: <0.5 seconds (typical)

L2: <1.0 seconds (typical)

Time Accuracy

20 ns RMS

Velocity Accuracy

0.03 m/s RMS

PHYSICAL AND ELECTRICAL

Dimensions: 182mm×52mm×134mm

Weight: 1.1Kg

Power

Input voltage: DC8V ~ 32V, with polarity reverse protection

Power consumption

≤ 3.0W, in RTK base mode with internal radio in use

COMMUNICATION PORTS

Full RS-232 serial (Dsub 9 pin) on Port 1 and Port 2
Ethernet

Radio modem: frequency range from 410 MHz to 470 MHz

Cellular: GPRS and 3G

Bluetooth: fully integrated, fully sealed 2.4 GHz
communications port

Data storage: 8 GB external memory.

Data Formats

Data output: NMEA-0183, raw data

Differential data: RTCM2.3 / 3.0 / 3.1 / 3.2, CMR

ENVIRONMENTAL

Temperature

Operating -40 °C ~ +70 °C

Storage -45 °C ~ +80 °C

Humidity: 95% non-condensing

Environment protection: IP65

Shock

Designed to survive a 2 m (6.6 ft) pole drop onto concrete.

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