

# R30

## Overview

The SMAJAYU 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.

## Feature

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



## SPECIFICATION

MODEL	R30
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

Operating -40 °C ~ +70 °C

Storage -45 °C ~ +80 °C

Temperature Humidity 95% non-condensing

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

Note: The above information is for reference only and may be varied at delivery. For the latest data, please contact us.

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