



Data Sheet

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2F., No.136, Ziqiang S. Rd., Zhubei City, Hsinchu County 30264, Taiwan (R.O.C.)
TEL : 886-3-6578491 FAX : 886-3-6578492

MADE IN TAIWAN



UD-731R

Fast Acquisition Enhanced Sensitivity 44 Channel USB Dongle GPS Receiver

The **UD-731R** is a compact all-in-one GPS receiver that continuously tracks all satellites in view and provides accurate satellite positioning data.

1. FEATURES

- 44 channel to acquire and track satellites simultaneously
- Capable of keeping up to 100,000 positions(Longitude, Latitude, Speed, UTC)
- Industry-leading TTFF speed
- Signal detection better than -158 dBm
- SBAS (WAAS/EGNOS) capable
- Cold start < 45seconds
- Hot start < 1second
- Accuracy 5m CEP
- USB Interface
- Easy-plug-in Notebook
- SIZE:78.62mmL X 24.83mmW X 11.15mmH
- RoHS compliance

Its 44 parallel channels and 20000+ correlators provide fast satellite signal acquisition and short start-up time. Acquisition sensitivity of -155dBm and tracking sensitivity of -158 dBm offer good performance even under difficult environments.

The **UD-731R** is optimized for applications requiring good performance and low cost; it is suitable for a wide range of handhelds, asset tracking, Notebook, PDA-centric personal navigation system, and vehicle navigation products.

2. TECHNICAL SPECIFICATIONS

Parameter	Specification
Receiver Type	44 channels
Re-acquisition sensitivity	-155dBm
Tracking sensitivity	-158dBm
Cold start sensitivity	-137dBm
Receiver frequency	1575.42MHz
Code	C/A code
Accuracy	
(1) Position	5m CEP
(2) Velocity	0.1m/sec
Startup Time	
hot start	< 1 sec
warm start	< 35 sec
cold start	< 45 sec
Signal Reacquisition	<1s
Update Rate	1Hz
Operational Limits	
(1) Altitude	< 18,000m
(2) velocity	< 500m/s
Dynamics	4G (39.2m/sec ²)
Datum	WGS-84
Protocol	NMEA-0183 V3.01
Serial Interface	USB interface
Input Voltage	5V ±5%
Power Consumption	180mW
Connector	USB B-type 4P male

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TEL : 886-3-6578491 FAX : 886-3-6578492

Email support@unitraq.com

Website www.unitraq.com

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