



GPS USB Navigation Dongle

Model:UD-731N



Data Sheet

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MADE IN TAIWAN



UD-731N

Fast Acquisition Enhanced Sensitivity 50 Channel USB Navigation Dongle GPS Receiver

1. FEATURES

- GPS Receiver
- Built-in NAND Flash Memory for data storage
- Support for Navigation software and Map
- 50-channel u-blox 5 engine with over 1 million effective correlators
- Industry-leading TTFF speed
- Signal detection better than -160 dBm
- Hybrid GPS, GALILEO and SBAS (WAAS, EGNOS, MSAS, GAGAN) engine
- Support AGPS
- Cold start <30 seconds
- Hot start < 1second
- Accuracy 2.5m CEP
- USB Interface
- Easy-plug-in Notebook
- SIZE:78.62mmL X 24.83mmW X 11.15mmH
- RoHS compliance

The **UD-731N** is a compact all-in-one GPS receiver that continuously tracks all satellites in view and provides accurate satellite positioning data. The built-in NAND Flash memory supports for data storage. The navigation software and map can be installed to be a completed navigation dongle.

It provides fast satellite signal acquisition and short start-up time. Reacquisition sensitivity of -160dBm and tracking sensitivity of -160dBm offer good performance even under difficult environments.

The **UD-731N** 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.

2G/4GB FLASH: Travel along with FLASH and Navigation function

2. TECHNICAL SPECIFICATIONS

Parameter	Specification
Receiver Type	50 channels
Reacquisition sensitivity	-160dBm
Tracking sensitivity	-160dBm
Cold start sensitivity	-144dBm
Receiver frequency	1575.42MHz
Code	C/A code
Accuracy (1) Autonomous Position (2) Velocity	2.5m CEP 0.1m/sec
Startup Time hot start warm start cold start	< 1 sec < 30 sec < 30 sec
Max Navigation Update Rate	4Hz
Operational Limits (1) Altitude (2) velocity	50000m 500m/s
Dynamics	$\leq 4G$ (39.2m/sec ²)
Datum	WGS-84
Protocol	NMEA-0183 V2.3
Serial Interface	USB interface
Input Voltage	5V \pm 5%
Power Consumption Acquisition Tracking	210mA 160mA
Connector	USB B-type 4P male
NAND Flash Memory(Optional)	2G/4Gx8bit

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