

The GPS Stick™

NDV-125AW



FEATURES

- Acquire and track 54 satellites simultaneously
- Venus 5 simultaneous time-frequency search bins
- Signal detection better than -159dBm
- Reacquisition sensitivity -155dBm
- Cold start < 40 seconds at -135dBm
- Hot start < 1sec under open sky
- 5m CEP accuracy
- Support A-GPS function
- SBAS (WAAS, EGNOS) support
- USB version 2.0 interface
- Easy-plug-in Notebook
- Easy-installation USB driver
- Super mini size:73.5x27x10 mm

NDV-125AW

Fast Acquisition high-Sensitivity 54 Channels USB GPS Receiver Dongle

The NDV-125 is a single board of USB-GPS receiver and compact all-in-one GPS module solution intended for a broad range of Original Equipment Manufacturer (OEM) products, where fast and easy system integration and minimal development risk is required.

The NDV-125 is optimized for good performance and low cost. Its 54 parallel channels and V5 search bins provide short start-up time and fast signal acquisition. Having fast time-to-first-fix and high sensitivity, the NDV-125 offers good navigation performance even in urban canyons.

Satellite-based augmentation systems, such as WAAS and EGNOS, are supported to yield improved accuracy. Besides it also supports A-GPS function and fixed in the short time.

Both the LVTTTL-level, USB interface are provided on the interface connector. Supply voltage of 3.8V~8.0V is supported.

TECHNICAL SPECIFICATIONS

Receiver Type	54 parallel channels, L1 C/A code
Accuracy	Position 5m CEP Velocity 0.1m/sec
Startup Time (average)	< 1sec hot start < 30sec cold start
Signal Reacquisition	1s
Sensitivity	-145dBm acquisition -159dBm tracking
Update Rate	1Hz standard
Dynamics	4G (39.2m/sec ²)
Operational Limits	Altitude < 18,000m or velocity < 515m/s (COCOM limit, either may be exceeded but not both)
Protocol	NMEA-0183 V3.01 GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG, GPZDA 9600 baud, 8, N, 1
Datum	Default WGS-84 User definable
Input Voltage	3.8-8V DC
Power Consumption	< 42mA (1Hz standard version)
Dimension	73.5mm L x 27mm W x 10mm H
Weight:	18g (Including Battery)
Operating Temperature	-40°C ~ +85°C
Humidity	5% ~ 95%

Binary Messages

See *Binary Message Protocol User's Guide* for detailed descriptions.

The GPS Stick .
Hercegov Network

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