



89.00 EUR  
incl. 19% VAT, plus [shipping](#)

- Dead Reckoning !
- u-blox6 !

**Support:**  [Manual \[EN\]](#) | [Drivers \(Windows\)](#)

VDB-800DR is new generation GPS Module, integrated Dead Reckoning technology. VDB-800DR includes dead reckoning sensors to track vehicle when GPS signal lose. For example: When you lose GPS signal in tunnel, VDB-800DR keep navigation.

### Product Features

- 50-channel u-blox6 Engine with Over 2 Million Effective Correlators
- -146dBm SuperSense® Acquisition and Tracking Sensitivity
- AssistNow Online and Offline A-GPS Services, OMA SUPL Compliant
- 100% Coverage with Continuous Position Fixes Even in Tunnels
- Highly Accurate and Reliable Navigation Performance
- Automatic Sensor Calibration and Temperature
- Operating Temperature : -40°C to 85°C

### Receiver Type

Chipset	u-blox6 GPS L1, C/A Code
Frequency	GALILEO L1 Open Service (with upgrade) SBAS : WAAS, EGNOS, MSAS, GAGAN
Channels	Supports 50 Channels

### Sensitivity

Tracking & Navigation	-160dBm
Acquisition	-160dBm
Cold Start (Autonomous)	-146dBm

### Time to First Fix (TTFF)

Cold Start	32 sec
Warm Start	32 sec
Hot Start	1 sec
Aided Start	<3 sec

### Accuracy

Horizontal Position	Position : <2.5m CEP, SBAS : <2.0m CEP
I/O Port	1 x Odometer 1 x FWD
Max Navigation	99% <60ns
Update Rate	1Hz combined DR & GPS update rate

### Dynamic Conditions

Horizontal Position	<500 m/s (972 knots)
Accuracy of Timepulse Signal	<= 4g

**Output Message Format**

GPS Protocol NMEA, UBX Binary, GGA, GLL, GSA, GSV, RMC, VTG, TXT

**Multipath Suppression**

Intelligent multipath detection and suppression

**A-GPS**

Supports AssistNow® Online and Offline, OMA SUPL Compliant

**Environmental Characteristics**

Operating Temp.	-40°C to +85°C
Storage Temp.	-40°C to +85°C
Peak Supply Current	Max=150mA
Max Performance	Acquisition =74mA
Eco Mode	Tracking = 43mA
Power Input	3.3V +-10% VDC input
Dimensions	51 x 30 (mm)

**Ordering Information**

Part Number	VDB-800DR-000
Description	Embedded u-blox6 GPS with <b>Dead Reckoning</b> Mini PCIe Card