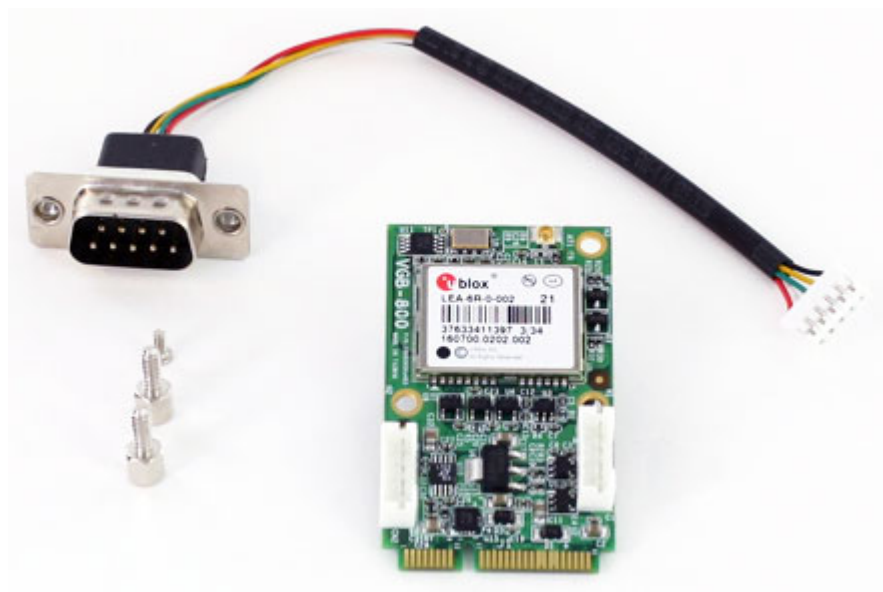




89.00 EUR

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<br>GPS L1, C/A Code                                               |
| Frequency | GALILEO L1 Open Service (with upgrade)<br>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<br>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                |

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**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 |