



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 Dead Reckoning Mini PCIe Card |