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 Correlatorsu
- -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 : -40ºC to 85ºC

Receiver Type	
Chipset	u-blox6
Frequency	GPS L1, C/A Code
	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. -40ºC to +85ºC
Storage Temp. -40ºC to +85ºC
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