



44.95 EUR

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

- G-Sensor !
- u-blox6 !

Support: [Driver \(Windows\)](#)

VDB-800SG is new generation GPS Module, integrated G-Sensor technology.

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
- 5 Hz Position Update Rate
- Highly Accurate and Reliable Navigation Performance
- Automatic Sensor Calibration and Temperature
- Operating Temperature : -40°C to 85°C
- Time To First Fix (TTFF) : <1 sec
- Standard Mini PCIe V1.2 Full-Mini Card (USB 2.0 Interface)

Receiver Type

Chipset

u-blox6 LEA-6S

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) -147dBm

Time to First Fix (TTFF)

Cold Start 28 sec
Warm Start 28 sec
Hot Start <1 sec
Aided Start <1 sec

Accuracy

Horizontal Position Position : <2.5m CEP, SBAS : <2.0m CEP
Accuracy of Timepulse Signal RMS 30ns
Max Navigation 99% <60ns
Update Rate 5 Hz (Max.)

Dynamic Conditions

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

G-Sensor

3-axis accelerometer

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-800SG-000
Description Embedded u-blox6 GPS with **G-Sensor** Mini PCle Card