



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 |