

89.95 EUR

incl. 19% VAT, plus shipping



- **GPS/QZSS, GLONASS, BeiDou !**
- **72-channels !**
- **-167dBm SuperSense !**
- **10 Hz Update Rate !**

**Support:**  [Specifications](#) | [Drivers \(Windows\)](#)

Embedded u-blox M8 GPS with G-Sensor Mini PCIe Card

**Features :**

- Concurrent Reception of GPS/QZSS, GLONASS, BeiDou
- 72-channel u-blox M8 Engine w/ Over 2 Million Effective Correlators
- 167dBm SuperSense® Acquisition & Tracking Sensitivity
- 10 Hz Position Update Rate
- Standard Mini PCIe V1.2 Full-Mini Card(USB2.0 Interface)
- Time To First Fix (TTFF) : <1 sec
- Operating Temp. : -40°C to 85°C

**Specifications**

**Receiver Type**

Chipset	u-blox M8
Frequency	GPS L1 C/A, SBAS L1 C/A, QZSS L1 C/A, GLONASS L1OF, BeiDou B1
Channels	Supports 72 Channels

**Sensitivity**

Tracking & Navigation	-167dBm
Acquisition	-160dBm
Cold Start (Autonomous)	-148dBm

**Time to First Fix (TTFF)**

Cold Start	26 sec
Warm Start	26 sec
Hot Start	<1 sec
Aided Start	<2 sec

**Accuracy**

Horizontal Position	Autonomous : <2.5m CEP, SBAS : <2.0m CEP
Accuracy of Timepulse Signal	RMS 30ns

**Receiver Type**

Max Navigation

99% &lt;60ns

Update Rate

10Hz (GPS &amp; GLONASS), 18Hz (GPS)

**Dynamic Conditions**

Velocity

&lt;500 m/s (972 knots)

Acceleration

&lt;= 4g

**Output Message Format**

GPS Protocol

NMEA 0183 V4.0, UBX, RTCM2.3

**Multipath Suppression**

Type

Intelligent multipath detection and suppression

**A-GPS**

Type

Supports AssistNow® Online and Offline, OMA SUPL Compliant

**G-Sensor**

Type

3-axis accelerometer

**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-810G-000

Description

Embedded u-blox M8 GPS with G-Sensor Mini PCIe Card