

69.95 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 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

|                              |   |
|------------------------------|---|
|                              | <b>Receiver Type</b>  |
| 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  |
|                              | <b>Sensitivity</b>  |
| Tracking & Navigation        | -167dBm   |
| Acquisition                  | -160dBm   |
| Cold Start (Autonomous)      | -148dBm   |
|                              | <b>Time to First Fix (TTFF)</b>                               |
| Cold Start                   | 26 sec  |
| Warm Start                   | 26 sec  |
| Hot Start                    | <1 sec  |
| Aided Start                  | <2 sec  |
|                              | <b>Accuracy</b>   |
| Horizontal Position          | Autonomous : <2.5m CEP, SBAS : <2.0m CEP                      |
| Accuracy of Timepulse Signal | RMS 30ns  |
| Max Navigation               | 99% <60ns   |
| Update Rate                  | 10Hz (GPS & GLONASS), 18Hz (GPS)                              |
|                              | <b>Dynamic Conditions</b>                                     |
| Velocity                     | <500 m/s (972 knots)  |
| Acceleration                 | <= 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

**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-810-000

Description Embedded u-blox M8 GPS Mini PCIe Card