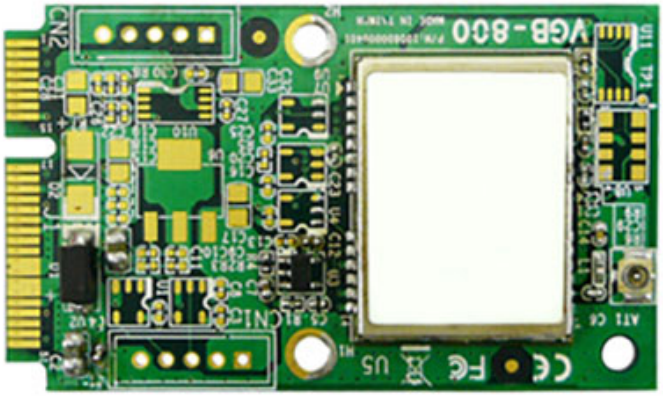
VDB-810G Mini-PCIe GPS (u-blox M8 GPS/QZSS+GLONASS+BeiDou, G-Sensor)

[http://www.cartft.com/catalog/il/2248]



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. : -40ºC to 85ºC
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% <60ns
Update Rate	10Hz (GPS & GLONASS), 18Hz (GPS)
Dynamic Conditions	
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
G-Sensor	
Type	3-axis accelerometer
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-810G-000
Description	Embedded u-blox M8 GPS with G-Sensor Mini PCIe Card