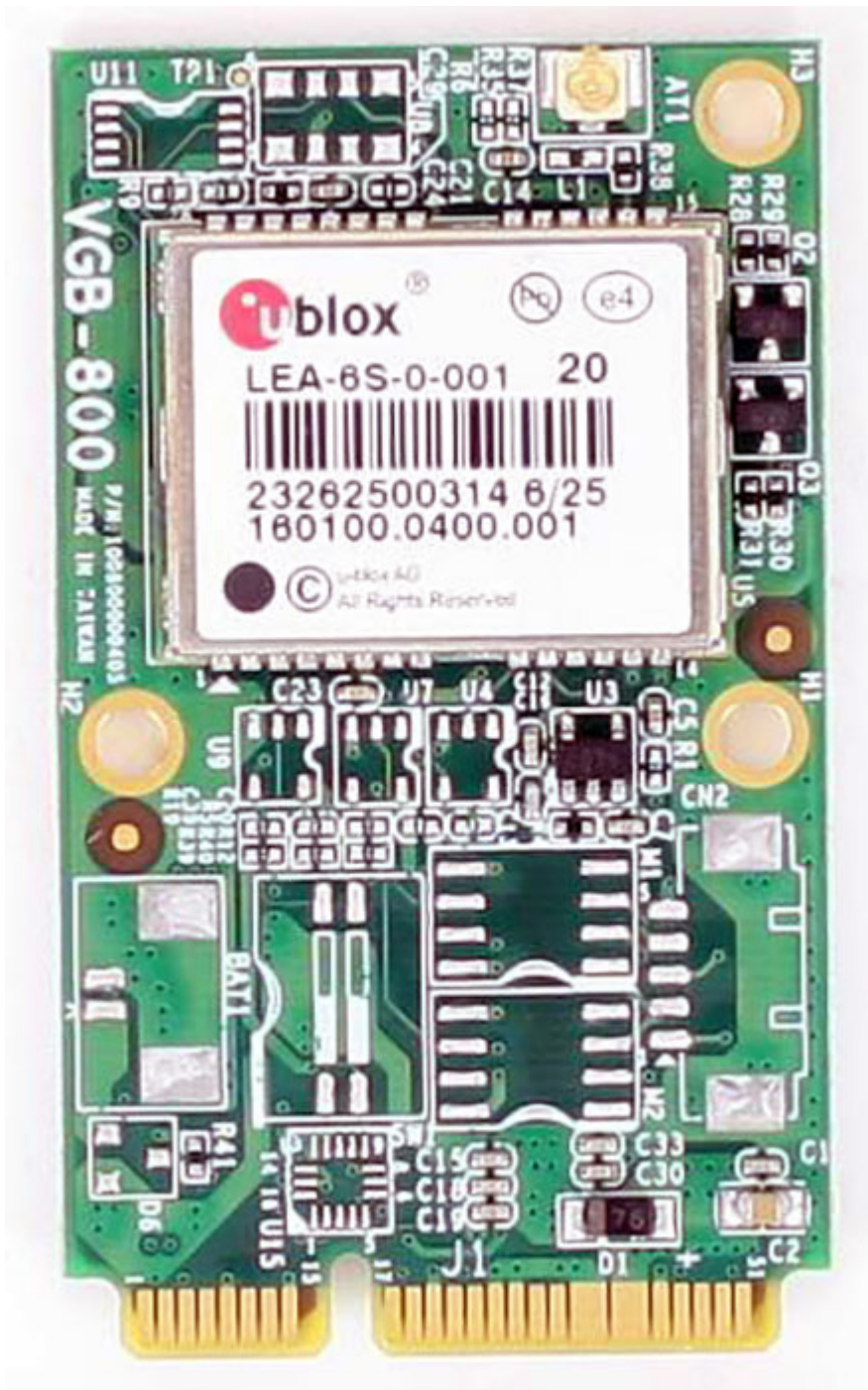




34.95 EUR

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

- u-blox6 !

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

VDB-800S is Embedded u-blox6 GPS Mini PCIe Card

#### 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)

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**Specifications**

|                              |                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------|
|                              | <b>Receiver Type</b>                                                                      |
| Chipset                      | LEA-6S                                                                                    |
| Frequency                    | GPS L1, C/A Code, GALILEO L1 Open Service (with upgrade), SBAS : WAAS, EGNOS, MSAS, GAGAN |
| Channels                     | Supports 50 Channels                                                                      |
|                              | <b>Sensitivity</b>                                                                        |
| Tracking & Navigation        | -160dBm                                                                                   |
| Acquisition                  | -160dBm                                                                                   |
| Cold Start (Autonomous)      | -147dBm                                                                                   |
|                              | <b>Time to First Fix (TTFF)</b>                                                           |
| Cold Start                   | 28 sec                                                                                    |
| Warm Start                   | 28 sec                                                                                    |
| Hot Start                    | <1 sec                                                                                    |
| Aided Start                  | <1 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                  | 5Hz (Max.)                                                                                |
|                              | <b>Dynamic Conditions</b>                                                                 |
| Velocity                     | <500 m/s (972 knots)                                                                      |
| Acceleration                 | <= 4g                                                                                     |
|                              | <b>Output Message Format</b>                                                              |
| GPS Protocol                 | NMEA, UBX Binary, GGA, GLL, GSA, GSV, RMC, VTG, TXT                                       |
|                              | <b>Multipath Suppression</b>                                                              |
| Type                         | Intelligent multipath detection and suppression                                           |
|                              | <b>A-GPS</b>                                                                              |
| Type                         | Supports AssistNow® Online and Offline, OMA SUPL Compliant                                |
|                              | <b>Environmental Characteristics</b>                                                      |
| 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)                                                                              |