



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)

## Specifications

**Receiver Type**

|           |   |
|-----------|---|
| Chipset   | 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          | Autonomous : <2.5m CEP, SBAS : <2.0m CEP |
| Accuracy of Timepulse Signal | RMS 30ns                                 |
| Max Navigation               | 99% <60ns                                |
| Update Rate                  | 5Hz (Max.)                               |

**Dynamic Conditions**

|              |                      |
|--------------|----------------------|
| Velocity     | <500 m/s (972 knots) |
| Acceleration | <= 4g                |

**Output Message Format**

|              |   |
|--------------|---|
| GPS Protocol | NMEA, UBX Binary, GGA, GLL, GSA, GSV, RMC, VTG, TXT |
|--------------|---|

**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)         |