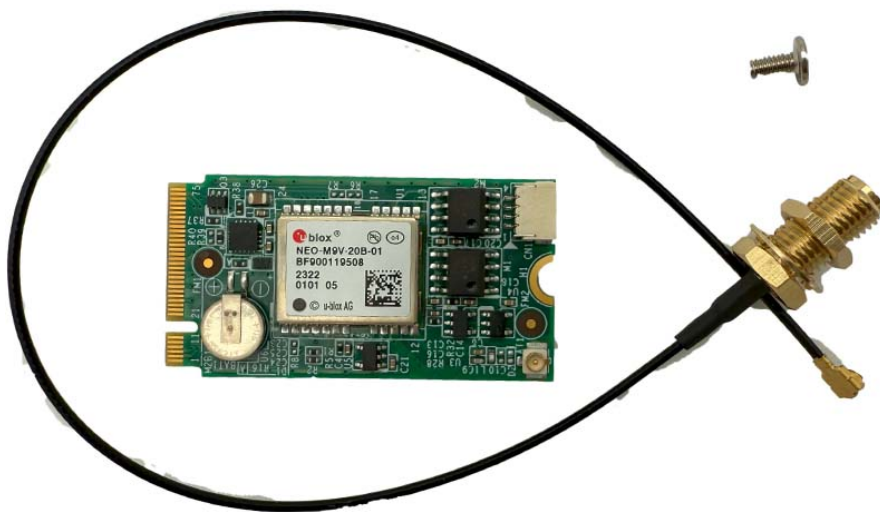




149.95 EUR  
incl. 19% VAT, plus [shipping](#)

- GPS/QZSS, GLONASS, Galileo !
- 92-channels !
- -158dBm SuperSense !
- 50 Hz Update Rate !



Support:  [Specifications](#)

Embedded u-blox M9V GPS M.2 Card

**Features :**

- Concurrent Reception of GPS + QZSS, GLONASS, Galileo, BeiDou
- 92-channel u-blox M9 Engine
- Ultra Low Power Digital Accelerometer
- 158 dBm Acquisition & -159 dBm Tracking Sensitivity
- Dead Reckoning Support
- Operating Temp.: -40°C to 85°C

Specifications

**Receiver Type**

Chipset

u-blox NEO-M9V-20B

|                         |   |
|-------------------------|---|
|                         | GPS: L1/C/A                                       |
|                         | QZSS: L1 C/A/S                                    |
|                         | GLONASS: L1OF                                     |
| Frequency               | BeiBou: B1I (1561.098 MHz) only                   |
|                         | Galileo: E1B/C                                    |
|                         | SBAS: L1 C/A: EGNOS, GAGAN, MSAS and WAAS         |
| Channels                | Supports 92-Channels                              |
|                         | <b>Sensitivity</b>                                |
| Tracking & Navigation   | -159dBm   |
| Reacquisition           | -158dBm   |
| Cold Start (Autonomous) | -147dBm   |
|                         | <b>Time to First Fix (TTFF)</b>                   |
| Cold Start              | 24 sec  |
| Hot Start               | <2 sec  |
| Aided Start             | <2 sec  |
|                         | <b>Accuracy</b>                                   |
|                         | 1.5 m CEP (with SBAS)                             |
| Accuracy                | 2.0 m CEP (without SBAS)                          |
|                         | Horizontal: 1.5m                                  |
|                         | Vertical: 3m                                      |
|                         | 1 x 1.0 mm 1x4-PIN JST                            |
|                         | PIN 1: WHEELTICK+                                 |
| External I/O            | PIN 2: WHEELTICKPIN                               |
|                         | 3: FWD+   |
|                         | PIN 4: FWD-                                       |
| Update Rate             | 50Hz (4 concurrent GNSS)                          |
|                         | <b>Dynamic Conditions</b>                         |
|                         | <b>Output Message Format</b>                      |
| Protocol                | NMEA 4.11 (default), 4.10, 4.0, 2.3, and 2.1, UBX |
|                         | <b>Multipath Suppression</b>                      |
|                         | <b>A-GPS</b>                                      |
|                         | <b>Environmental Characteristics</b>              |
| Operating Temp.         | -40°C to +80°C                                    |
| Storage Temp.           | -40°C to +85°C                                    |
|                         | Input: 3.3 VDC +/- 10%                            |
| Power                   | I/O Input: 30 VDC                                 |
|                         | Consumption: >0.6 watts (w/o active antenna)      |
| Dimensions              | 22 x 42 x 8 mm                                    |
|                         | <b>Ordering Information</b>                       |
| Part Number             | VDB-811DR-M2-2242-B                               |
| Description             | Embedded u-blox M9V GPS M.2 Card                  |