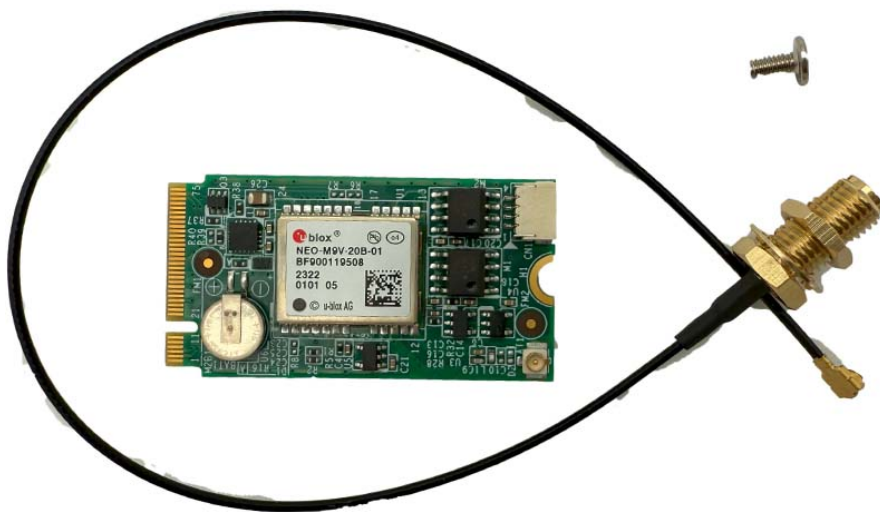




149.95 EUR  
incl. 19% VAT, plus [shipping](#)

- 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