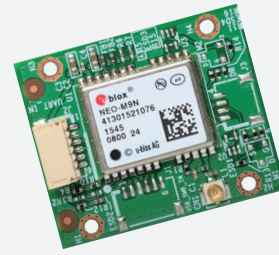


VIOB-GPS-DR04



VIOB-GPS-DR05



VIOB-GPS-06

Main Features

- An advantaged GNSS module for GPS, GLONASS, BeiDou, Galileo and QZSS
- u-blox M8/M9 GNSS positioning engine featuring excellent accuracy and time-to-first fix performance
- Automotive dead reckoning/untethered dead reckoning (by module)
- Proprietary form factor releasing a mini-PCIe slot for additional application
- Combines low power consumption and high sensitivity
- Wide-range operating temperature
- ESD and electrical protection

Product Overview

VIOB-GPS series are advantageous GNSS modules, delivering exceptional performance based on the u-blox M8/M9 engine for concurrent GNSS (GPS, GLONASS, Galileo, BeiDou, QZSS and SBAS) positioning. The VIOB-GPS series feature high sensitivity with minimal acquisition times. Moreover, it has a proprietary form factor, offering a mini-PCIe slot for additional application. Quick and easy to install on any device, they are able to navigate and track vehicles with ease. Examples of potent solutions offered by module are powerful ADR (automotive dead reckoning) or UDR (untethered dead reckoning). In order to satisfy server vehicle environments, VIOB-GPS modules are fully functional under a wide operating temperature range of -40°C to 85°C. To further ensure reliability, it is designed to meet the ESD standard of $\pm 8\text{KV}/15\text{KV}$ (contact/air) based on the IEC 61000-4-2.

Specifications

Form Factor

- Proprietary form factor

I/O Connector

- Dual 6-pin wafer connector
- 2-Pin wafer for coin battery (by request)

Function

- VIOB-GPS-06
 - 1 x u-blox NEO-M9N module for GPS + QZSS/SBAS, GLONASS, Galileo and BeiDou. 4 of concurrent GNSS
 - Baud Rate: 38400
- VIOB-GPS-DR04
 - 1 x u-blox NEO-M8L module for GPS, GLONASS, Galileo, BeiDou and QZSS w/ automotive dead reckoning (ADR)
 - Baud Rate: 9600
- VIOB-GPS-DR05
 - 1 x u-blox NEO-M8U module for for GPS, GLONASS, Galileo, BeiDou and QZSS w/ untethered dead reckoning (UDR)
 - Baud Rate: 9600

Dimensions

- 25.4mm (L) x 25.4mm (W) (1.0" x 1.0")
- Weight: 5g

Environment

- Operating temperatures: -40°C~85°C
- Storage temperatures: -40°C~90°C
- Related humidity (with system chassis): 5%~90%

Electrical Protection

- IEC 61000-4-2 electrostatic discharge (ESD): $\pm 8\text{KV}/15\text{KV}$ (contact/air)

Ordering Information

- **VIOB-GPS-06 (P/N: 20V000GPS16X0)**
1 x u-blox NEO-M9N module, support 5V antenna
- **VIOB-GPS-DR04 (P/N: 88V000GPS20X0)**
1 x u-blox NEO-M8L-06B module w/ automotive dead reckoning (ADR), support 5V antenna
- **VIOB-GPS-DR05 (P/N: 88V000GPS21X0)**
1 x u-blox NEO-M8U-06B module w/ untethered dead reckoning (UDR), support 5V antenna