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Link do produktu: https://www.nobshop.pl/gps-matek-gnss-sam-m10q-p-4734.html

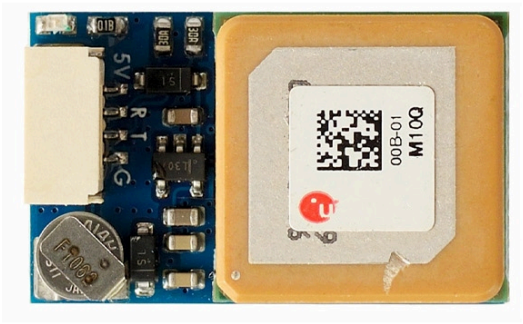


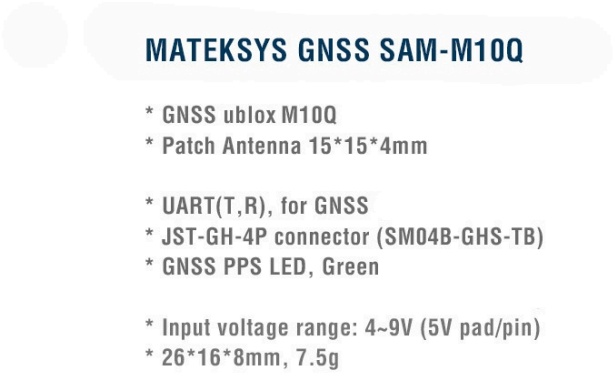
GPS Matek GNSS SAM-M10Q

Cena brutto	**150,00 zł**
Cena netto	**121,95 zł**
Dostępność	**Aktualnie niedostępny**
Czas wysyłki	**1 - 3 dni**
Producent	**Matek Systems**

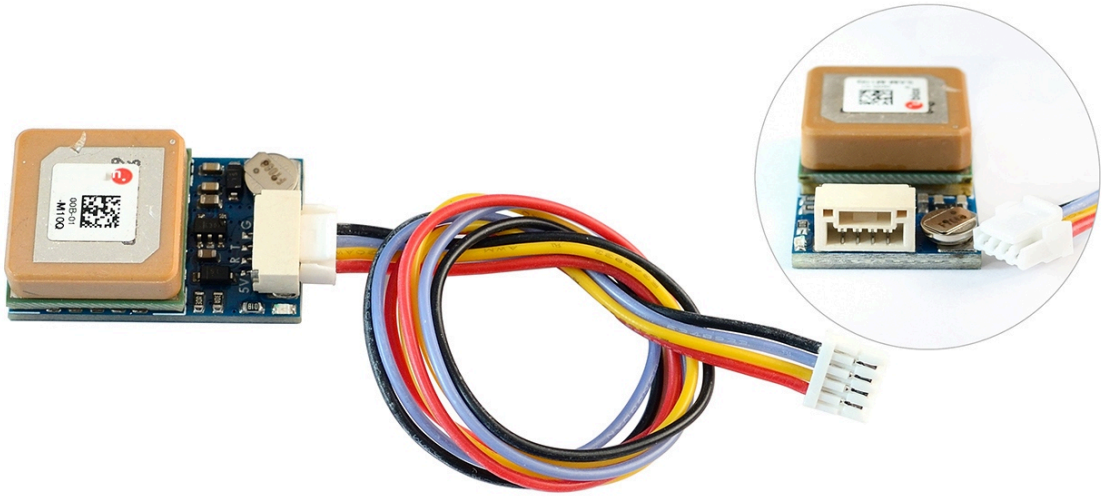
Opis produktu

GPS Matek GNSS SAM-M10Q



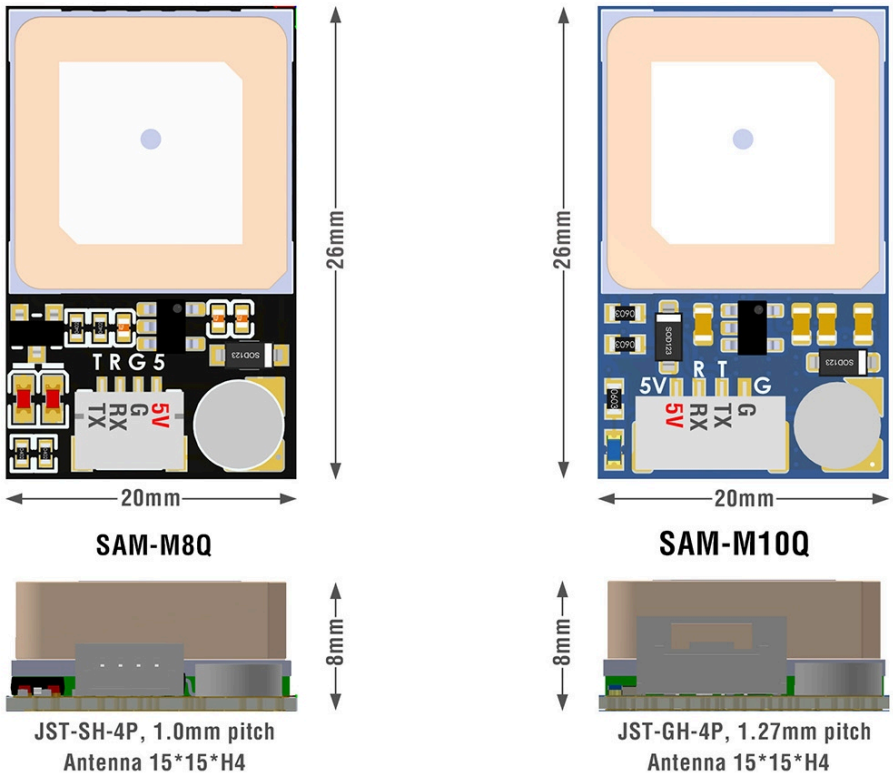


- The GNSS module features the u-blox M10 standard precision GNSS platform and provides exceptional sensitivity and acquisition time for all L1 GNSS signals. It supports concurrent reception of four GNSS (GPS, GLONASS, Galileo, and BeiDou). The high number of visible satellites enables the receiver to select the best signals. This maximizes the position availability, in particular under challenging conditions such as in deep urban canyons. u-blox Super-S (Super-Signal) technology offers great RF sensitivity and can improve the dynamic position accuracy in non-line-of-sight scenarios.
- The high-gain 15 x 15 mm2 patch antenna provides the best balance between performance and small size. The omnidirectional antenna radiation pattern increases flexibility for device installation.



Specifications:

- GNSS u-blox M10 series (GPS, GLONASS, Galileo and BeiDou)
- No Magnetic Compass built-in
- Patch antenna 15*15*4mm
- Input voltage range: 4~9V (5V pad/pin)
- Power consumption: 10mA
- UART baudrate: 9600 default
- Operating Temperatures: -20~80 °C
- UART(TX, RX) interface for GNSS module
- JST-GH-4P connector (SM04B-GHS-TB). 1.27mm pitch
- GNSS PPS LED, Green. (Solid ON after powering on, blinking(1Hz) when GNSS get 3D fix)
- Protocol: UBX(u-blox) 5Hz@GPS+GAL+BDS B1C+GLO or NMEA 1Hz
- 26mm*16mm*8mm
- 7.5g
- 3D step.zip



Tips and Notes:

- INAV 5.0.0, Betaflight 4.3.0, ArduPilot 4.3 or newer is required.
- UBlox NEO-M9N, MAX-M10S, SAM-M10Q series all don’t have dataflash built in. once GNSS is powered off and the supercapacitor run out. the settings will back to default.
- UBX protocol is bidirectional. Flight controller firmware can change settings on GPS via UBX protocol. You don’t need to set GNSS module Baud and Frequency in u-center.
- The default configuration on SAM-M10Q-00B with ublox FW 5.1 is concurrent reception of GPS, Galileo, GLONASS, and BeiDou B1C with QZSS and SBAS enabled.
- Start with u-blox GNSS FW3.01, timepulse is aligned with UTC time and that time is set valid only after leap second is downloaded. That could take up to 12.5 min. Probably PPS LED will not blink immediately after GPS has 3D fixed.
- The SAM-M10Q provides the ability to reset the receiver. Bridging “RST” pad to Ground for at least 100 ms will trigger a cold start. RESET will delete all information and trigger a cold start. It should only be used as a recovery option. If you are sure wiring and setup are all right. but flight controller can’t detect the GNSS module(grey GPS icon), try doing reset.
- The scratches on ceramic antenna are the result of tuning the antenna.
- Troubleshoot GPS related issues: http://www.mateksys.com/?p=5712#tab-id-6
- u-center Windows

Includes:

- 1x GNSS module
- 1x JST-GH-4P to JST-GH-4P 20cm silicon wire