UBLOX NEO-M8T TIME & RAW RECEIVER BOARD WITH SMA (RTK READY)

UBLOX NEO-M8T GPS, GLONASS, Galileo, BeiDou, QZSS and SBAS RAW and timing receiver EVAL module USB, I2C, UART with SMA antenna connectors. RTK ready.

$74.99

Quantity: 1

156 items in stock

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UBLOX NEO-M8T Reference Board with SMA antenna connectors for your RTK systems, UAV systems, Robots, RC, FPV or other projects. Ultra small and light.

The NEO-M8T concurrent GNSS modules deliver high integrity, precision timing in demanding applications world-wide. Support for BeiDou and GLONASS constellations enables compliance with national requirements. Enhanced sensitivity and concurrent dual-constellation reception extend coverage and integrity to challenging signal environments. Survey-in and fixed-position navigation reduce timing jitter, even at low signal levels, and enable synchronization to be maintained with as few as one single satellite in view. Support for low duty cycle operation reduces power consumption for battery-powered applications.

u-blox timing products include timing integrity measures with Receiver Autonomous Integrity Monitoring (RAIM) and continuous phase uncertainty estimation. They feature high dynamic range radios with both analog and digital interference mitigation, supporting applications in wireless communications equipment. u-blox timing products can make use of u-blox AssistNow or industry standard aiding data. This reduces the time to first fix and delivers exceptional acquisition sensitivity, even on first installation before precise location, time or frequency are known.

The NEO-M8T Evaluation board makes evaluating the high performance of the u-blox 8 positioning engine simple. With a built-in USB interface for both power supply and high-speed data transfer, the need for an external power supply is eliminated. The NEO-M8T Breakout board is very compact, and it's user-friendly interface and power supply options make it ideally suited for use in laboratories, vehicles and outdoor locations. Furthermore, the NEO-M8T breakout board can be used with a PDA or a notebook PC, making it the perfect companion through all stages of design-in projects. It's a fully assembled and tested PCB for the u-Blox NEO-M8T

NEO-M8T breakout board features:

- 72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1 SBAS L1 C/A: WAAS, EGNOS, MSAS Galileo-ready E1B/C
- SuperSense Indoor GPS, -167dBm
- On-board Ultra low noise 3.3V voltage regulator and RF filter for noise blocking
- **USB**, **I2C** and **Uart** (Tx,Rx) **RAW data** out avail
- Support active antenna
- u-center GPS Evaluation Software
- Extensive visualization and evaluation features
- Supports AssistNow Online and AssistNow Offline A-GPS services
- 1 TTL UART port, 1 USB port, 1 I2C port

- Time pulse LED
- Flash memory for firmware upgrade and settings inside in the module (can save setings without battery)
- Battery for HOT module start
- Dimensions: 40x18mm
- Weight 8.1 gram
- Fully assembled and ready to use

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- 72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L10F, BeiDou B1 SBAS L1 C/A: WAAS, EGNOS, MSAS Galileo-ready E1B/C (subject to Firmware upgrade)
- Nav. update rate Concurrent GNSS: up to 2 Hz
- Position accuracy 2.5 m CEP (Autonomous)
- Acquisition GPS & GLONASS GPS & BeiDou
- Cold starts: 26 s 27 s
- Aided cold starts: 2 s 3 s
- Sensitivity Tracking & Nav: −167 dBm −165 dBm
- Cold starts (aided): −157 dBm −151 dBm
- (autonomous): −148 dBm −148 dBm
- Reacquisition: −160 dBm −160 dBm
- Assistance AssistNow GNSS Online
- AssistNow GNSS Offline (up to 35 days)
- AssistNow Autonomous (up to 6 days)
- OMA SUPL & 3GPP compliant
- TCXO Oscillator
- Built-In RTC crystal
- Extra LNA for passive antenna
- Anti jamming Active CW detection and removal.
- On-board SAW band pass filter
- Internal SQI Flash for Firmware update
- Active and passive Supported antennas