

Features:

- 92-channel u-blox M9 engine GPS L1 C/A, QZSS L1 C/A/S, GLONASS L10F BeiDou B1I, Galileo E1B/C SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
- SuperSense Indoor GPS, -167dBm
- On-board low noise 3.3V voltage regulator and RF filter for noise blocking
- USB interface type C connector
- Support active antenna
- SMA antenna connectors
- Power LED
- Time pulse LED
- Supports AssistNow Online and AssistNow Offline A-GPS services
- Flash memory for firmware upgrade and settings inside in the module (can save settings without battery)
- Can be easily mounted in your case by double sided tape
- Supercapacitor for HOT module start
- Dimensions without connectors: 40x30x18 mm
- Weight: 43 gr.
- 7075 T6 Aluminium case with IP 67 protection
- Fully assembled and ready to use

Reference: ELT0199



MODULE FEATURES

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Navigator update rate: Up to 25 Hz (4 concurrent GNSS)

Position accuracy: 1.5 m CEP (with SBAS) or 2.0 m CEP (without SBAS)

UDR position error: 10% of distance traveled without GNSS (duration < 60 s)

ADR position error: 2% of distance traveled without GNSS

Acquisition:

- Cold starts: 24 s
- Aided cold starts: 2 s
- Reacquisition: 2 s

Sensitivity:

- Tracking & Nav: -167 dBm
- Reacquisition: -160 dBm
- Cold starts (aided): -148 dBm
- Hot starts: -159 dBm

Geofencing: Up to 4 circular areas; software message or GPIO for waking up the host CPU

RF interference and jamming detection and reporting

Active GNSS in-band filtering

Spoofing detection and reporting: Consistency checks based on GNSS and sensors

Device integrity:

- Secure boot of firmware
- Receiver configuration lock by command
- Secure interface: Signed UBX messages (SHA-256)

Assistance: GNSS AssistNow Online

Active and passive: Supported antennas