

Features:

- On-board low noise 3.3 V voltage regulator
- **USB, I2C** (SDA, SCL) and **UART** (Tx, Rx) interfaces
- SMA active antenna connector
- **Mini USB** connector
- u-center Evaluation Software
- Extensive visualization and evaluation features
- Time pulse LED, Power LED
- Backup supercapacitor
- Dimensions: **30x30 mm** hole distance **25x25 mm**
- Weight: **9 gr.**

Reference: ELT0107



GNSS FEATURES

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|---------------|---|
| Receiver type | 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 |
| GNSS platform | Concurrent GNSS |
| GNSS bands | L1C/A, L10F, E1-B/C, B1I |
| Oscillators | TCXO |

PERFORMANCE

| | |
|--------------------------|---|
| Position accuracy | 1.5 m CEP (with SBAS) 2.0 m CEP (without SBAS) |
| Acquisition | Cold start Hot/Aided start Nav. update rate |
| GPS+GLO+GAL+BDS | 24 s 2 s 25 Hz |
| GPS+GLO+GAL | 25 s 2 s 25 Hz |
| GPS+GLO | 26 s 2 s 25 Hz |
| GPS+BDS | 28 s 2 s 25 Hz |
| GPS+GAL | 29 s 2 s 25 Hz |
| GPS | 29 s 2 s 25 Hz |
| GLONASS | 27 s 2 s 25 Hz |
| Beidou | 32 s 2 s 25 Hz |
| Galileo | 42 s 5 s 25 Hz |
| Velocity accuracy | 0.05 m/s |
| Dynamic heading accuracy | 0.3 deg |
| Sensitivity (GPS+GLO): | |
| Tracking and Navigation | -167 dBm |
| Reacquisition | -160 dBm |
| Cold start | -148 dBm |
| Hot start | -159 dBm |

OTHER FEATURES

| | |
|-------------------------------|--|
| Anti-jamming | Active CW detection and reporting Active GNSS in-band filtering |
| Anti-spoofing | Spoofing detection and reporting |
| Security | Secure firmware update Message integrity |
| Memory | Flash |
| Data batching | Autonomous tracking up to 5 min, data logger |
| Operating temperature | 0 °C to +50 °C |
| Supply voltage | 4.5 V to 5.5 V |
| Supply current | <100 mA (without external antenna) |
| External antenna requirements | Supply voltage 3.0 V Consumption current <50 mA |