

Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **USB, I2C** (SDA, SCL), **SPI** and **UART** (Tx, Rx)
- **U.FL** (I-PEX) active antenna connector
- **12 pin JST SH** connector
- Time pulse LED, Power LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: **36x18 mm**
- Weight: **3.3 gr.**

Reference: ELT0053

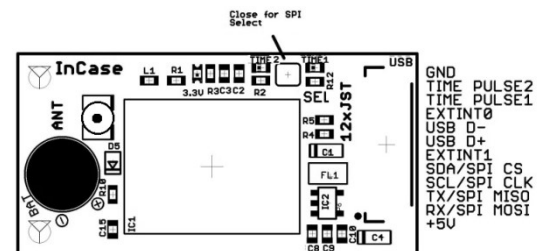


GNSS FEATURES

| | |
|---------------|--|
| Receiver type | 72-channel u-blox M8 engine GPS/QZSS L1 C/A, 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 | 2.0 m CEP (with SBAS) 2.5 m CEP (without SBAS) |
| Acquisition | Cold start Hot start Aided start Nav.update rate |
| GPS+GLONASS | 26 s 1 s 2 s 5 Hz |
| GPS | 29 s 1 s 2 s 10 Hz |
| GLONASS | 30 s 1 s 2 s 10 Hz |
| Beidou | 34 s 1 s 3 s 10 Hz |
| Galileo | 45 s 1 s 7 s 10 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 | -157 dBm |



OTHER FEATURES

| | |
|-------------------------------|--|
| Anti-jamming | Additional SAW filter and LNA |
| Anti-spoofing | Spoofing detection |
| Memory | Flash |
| Operating temperature | 0 °C to +50 °C |
| Supply voltage | 4.5 V to 5.5 V |
| Supply current | <45 mA (without external antenna) |
| External antenna requirements | Supply voltage 3.0 V Consumption current <50 mA |