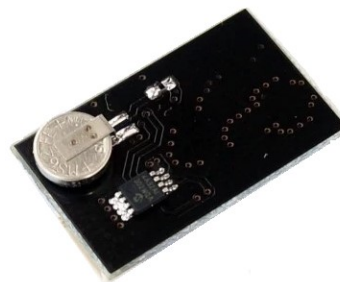
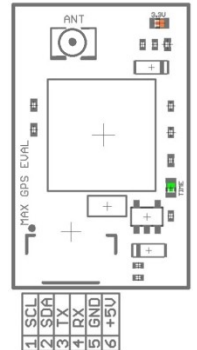


Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **I2C** (SDA, SCL) and **UART** (Tx, Rx)
- **U.FL** (I-PEX) active antenna connector
- Time pulse LED, Power LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: **28x16 mm**
- Weight: **4 gr.**

Reference: ELT0150



GNSS FEATURES

Receiver type	u-blox M10 engine GPS L1 C/A, QZSS L1 C/A L1S, GLONASS L10F, Beidou B1I/B1C, Galileo E1B/C, SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
GNSS platform	Concurrent GNSS
u-blox Super-S	Improved accuracy with small antennas
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	29 s	1 s	1 s	18 Hz
GLONASS	27 s	1 s	1 s	18 Hz
Beidou B1I	30 s	1 s	1 s	18 Hz
Galileo	41 s	1 s	5 s	18 Hz
Beidou B1C	56 s	1 s	TBD	18 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 removal		
Anti-spoofing	Spoofing detection		
Memory	Onboard ROM		
Operating temperature	0 °C to +50 °C		
Supply voltage	4.5 V to 5.5 V		
Supply current	<20 mA (without external antenna)		
External antenna requirements	Supply voltage	3.0 V	
	Consumption current	<50 mA	