

Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **USB, UART** (Tx, Rx) interfaces and **I2C** (SDA,SCL)(for LIS3MDL)
- Build-in I2C **LIS3MDL** Compass
- **Mini USB** connector
- u-center Evaluation Software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Time pulse LED
- Dimensions: **35x35 mm**; hole distance **30x30 mm**
- Weight: **14 gr.**

Reference: ELT0102



GNSS FEATURES

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
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