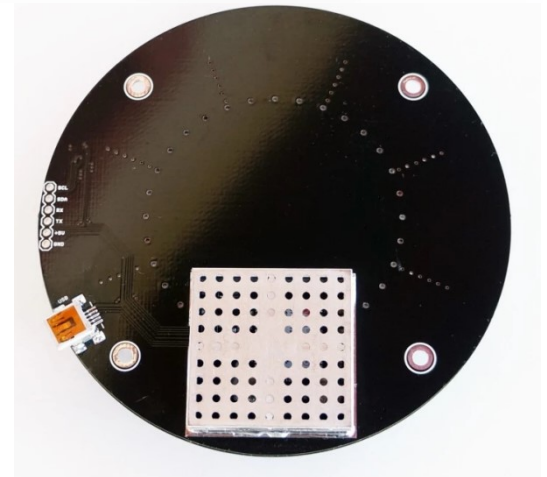


Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **USB**, and **UART** (Tx, Rx) **RAW** data out available
- **Dual band** GPS, Glonass, Beidou antenna
- **Mini USB** connector
- **LIS3MDL** I2C magnetometer
- Time pulse LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- EMI and RFI protection
- Backup supercapacitor
- Dimensions: Round **100 mm**; hole distance **60x60 mm**
- Weight: **113 gr.**

Reference: ELT0058



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	<55 mA