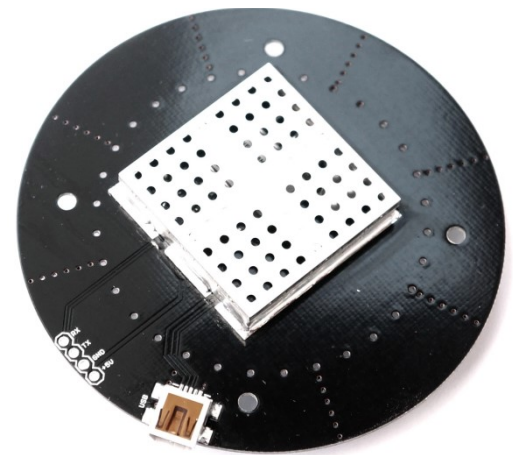


## Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **USB** and **UART** (Tx, Rx) interfaces
- **Triple band** GPS, Glonass, Beidou antenna
- **Mini USB** connector
- Time pulse LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- EMI protection
- Backup supercapacitor
- Dimensions: Round **80 mm**; hole distance **45x45 mm**
- Weight: **46 gr.**

Reference: **ELT0039**



### 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
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