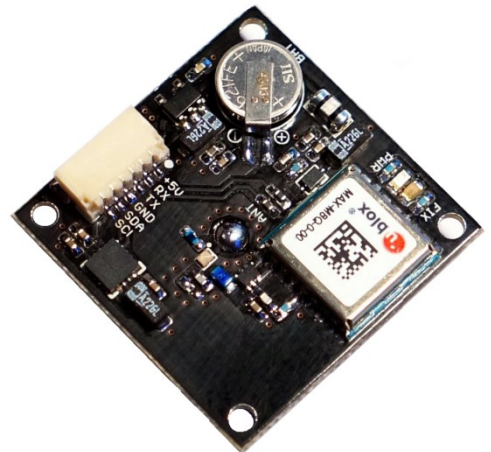


## Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **UART** (Tx, Rx) interface and **I2C** (SDA, SCL) (for LIS3MDL)
- 6 pin JST SH connectors
- **Triple band GPS, Glonass and BeiDou antenna**
- **Triple band Pass filter**
- **Triple band LNA**
- **LIS3MDL** I2C magnetometer (compass)
- Time pulse LED, Power LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: **25x25 mm**; hole distance **22x22mm**
- Weight: **16 gr.**

## Reference: ELT0024



### 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 10 Hz
GPS	29 s 1 s 2 s 18 Hz
GLONASS	30 s 1 s 2 s 18 Hz
Beidou	34 s 1 s 3 s 18 Hz
Galileo	45 s 1 s 7 s 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	-157 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	<45 mA