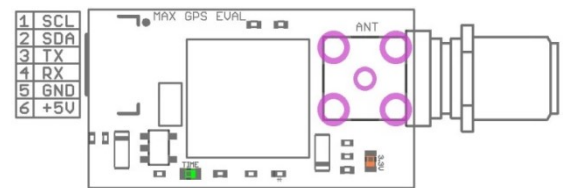


Features:

- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **I2C** (SDA, SCL) and **UART** (Tx, Rx)
- **SMA** active antenna connector
- Active GNSS antenna support
- Time pulse LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: **28x16 mm**
- Weight: **7 gr.**

Reference: ELT0023



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 (without external antenna)		
External antenna requirements	Supply voltage	3.0 V	
	Consumption current	<50 mA	