

Features:

- On-board Ultra low noise 3.3 V voltage regulator
- **USB** interface with **type A** connector
- **SMA** active antenna connector
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions with connectors: 75x25x13mm
- Weight 79 gram

Reference: ELT0103



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
Beidou	32 s	2 s	25 Hz
Galileo	42 s	5 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 (without external antenna)	
External antenna requirements	Supply voltage	3.0 V
	Consumption current	<50 mA