

## Features:

- Continuous navigation in urban environment, even at signal loss with speed or wheel-tick information from the vehicle
- Intended for fleet management or micromobility applications
- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **USB** interface with **type A** connector
- **SMA** active antenna connector
- u-center Evaluation Software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions with connectors: **75x25x13 mm**
- Weight: **16.5 gr.**

## Reference: ELT0164



### 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		
Oscillators	TCXO		

### PERFORMANCE

Position accuracy (GPS+GLO+GAL+BDS)	1.5 m CEP (with SBAS)		
Attitude accuracy (GPS)	3.0 m CEP (with SBAS)		
Position error during GNSS loss	3D Gyro + 3D Accel + Wheel Ticks		2%
	3D Gyro + 3D Accel		10%
Max nav. update rate	50 Hz		
Nav update rate (PVT)	5 Hz		
Navigation latency	15 ms		
Max sensor output rate	100 Hz		
Acquisition	Cold start	Hot start	Aided start
GPS+GLO+GAL+BDS	24 s	2 s	3 s
GPS+GLO	25 s	2 s	2 s
BDS+GLO	28 s	2 s	3 s
Velocity accuracy	0.08 m/s		
Dynamic attitude accuracy	Heading	0.3 deg	
	Pitch	0.4 deg	
	Roll	0.6 deg	
Sensitivity:			
Tracking and Navigation	-159 dBm		
Reacquisition	-158 dBm		
Cold start	-147 dBm		
Hot start	-159 dBm		

### OTHER FEATURES

Anti-jamming	Additional SAW filter and LNA, jamming detection and reporting	
Anti-spoofing	Spoofing detection and reporting	
Memory	Flash	
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