

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
- u-center Evaluation Software
- Extensive visualization and evaluation features
- Time pulse LED, Power LED
- Backup supercapacitor
- Dimensions: **34x28 mm** without USB connector
- Weight: **16 gr.**

Reference: ELT0166



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 (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