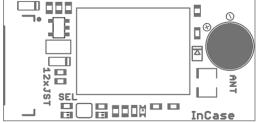


Features:

- 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, I2C (SDA, SCL), SPI and UART (Tx,Rx), RAW sensor data out
- U.FL (I-PEX) active antenna connector
- Active GNSS antenna support
- 12 pin JST SH connector
- Time pulse LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: 36x18 mm
- Weight 3.3 gram





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	тсхо

PERFORMANCE

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

OTHER FEATURES	
Anti-jamming	Additional SAW filter and LNA,
	jamming detection and reporting
Anti-spoofing	Spoofing detection and reporting
Memory	Flash
Operating	0 °C to +50 °C
temperature	
Supply voltage	4.5 V to 5.5 V
Supply current	<45 mA (without external antenna)
External antenna	Supply voltage 3.0 V
requirements	Consumption current <50 mA

Reference: ELT0159

InCase series GNSS module with UDR and ADR

EO-N