

Features:

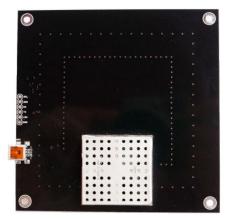
Reference: ELT0064

ADR RAW receiver. EMI protection + LIS3MDL X series

EO-M

- Continuous navigation in urban environment, even at signal loss, with speed or wheel-tick information from the vehicle
- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- USB, I2C (SDA, SCL)(for LIS3MDL) and UART (Tx, Rx) RAW data out
- Mini USB connector
- Triple band GPS, GLONASS, BeiDou antenna
- High Gain LNA with very low noise figure
- Double Band Pass filter for noise rejection
- LIS3MDL I2C magnetometer
- Time pulse LED
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- EMI protection
- Backup supercapacitor
- Dimensions: 100x100 mm; hole distance 90x90 mm
- Weight: 79 gr.





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, L1OF, E1-B/C, B1I
Oscillators	Crystall Oscillator

PERFORMANCE			
Position accuracy	1.5 m CEP (
(GPS)		without SBAS)	
Attitude accuracy (GPS)	3.0 m CEP (with SBAS)	
Position error during	Rear wheel		12%
GNSS loss	Gyro + spee		3%
		ed pulse + acceleromete	er 2%
Max nav. update rate	30 Hz		
Nav update rate (PVT)	2 Hz		
Navigation latency	<10 ms		
Max sensor output rate	100 Hz		
Acquisition	Cold start	Hot start	Aided start
GPS+GLONASS	26 s	1.5 s	3 s
GPS	30 s	1.5 s	3 s
GLONASS	31 s	1.5 s	3 s
Beidou	39 s	1.5 s	7 s
Galileo	57 s	1.5 s	7 s
Velocity accuracy	0.05 m/s		
Heading accuracy	1 deg		
Sensitivity (GPS+GLO):			
Tracking and Navigation	-167 dBm		
Reacquisition	-160 dBm		
Cold start	-148 dBm		
Hot start	-157 dBm		

OTHER FEATURE	S	
Anti-spoofing	Spoofing detection	
Memory	Flash	
Operating	0 °C to +50 °C	
temperature		
Supply voltage	4.5 V to 5.5 V	
Supply current	<55 mA	