

NEO-M8T

Time & RAW Triple Band with EMI and RFI protection + LIS3MDL X series

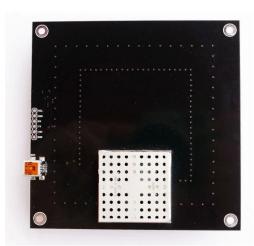
Features: Reference: ELT0062

- On-board low noise 3.3V voltage regulator and RF filter for noise blocking
- USB, UART (Tx, Rx) interfaces and I2C (SDA, SCL)(for LIS3MDL)
- LIS3MDL I2C magnetometer (compass)
- Triple band GPS, GLONASS, BeiDou antenna
- High Gain LNA with very low noise figure
- Double Band Pass filter for noise rejection
- Mini USB connector
- EMI and RFI protection
- Time pulse LED
- u-center GPS evaluation software
- · Extensive visualization and evaluation features
- 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	TCXO

PERFORMANCE				
Time pulse accuracy	≤ 20 ns (clear sky) ≤ 500 ns (indoor)			
Time pulse frequency	0.25 Hz	10 MHz		
Horizontal position accuracy (GPS+GLONASS)	2.5 m (auto 2.0 m (with)	
Acquisition	Cold start I	Hot start /	Aided star	t Nav.update rate
GPS+GLONASS	25 s	1 s	2 s	4 Hz
GPS	29 s	1 s	2 s	10 Hz
GLONASS	30 s	1 s	2 s	10 Hz
Beidou	34 s	1 s	3 s	10 Hz
Galileo	45 s	1 s	7 s	10 Hz
Velocity accuracy	0.05 m/s			
Dynamic heading accuracy	0.3 deg			
Sensitivity (GPS+GLO): Tracking and Navigation Reacquisition Cold start Hot start	-167 dBm -160 dBm -148 dBm -160 dBm			





OTHER FEATURES	
Anti-jamming	Additional SAW filter and LNA
Anti-spoofing	Spoofing detection
Memory	Flash
Operating	0 °C to +50 °C
temperature	
Supply voltage	4.5 V to 5.5 V
Supply current	<45 mA