NEO-M8T

TIME & RAW GNSS receiver USB dongle with SMA (RTK ready)

gnss oem
geopositioning electronics

Features:

- On-board Ultra low noise 3.3 V voltage regulator
- **USB** interface with **type A** connector
- **RAW data** output available≤
- **SMA** active antenna connector
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions with connectors: 75x25x13 mm
- Weight 16.5 gram

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

OTHER FEATURES		
Anti-jamming	Additional SAW filter and LNA	
Anti-spoofing	Spoofing detection	
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

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 (autonomous) 2.0 m (with SBAS)			
Acquisition	Cold start	Hot start	Aided start	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			