

ZED-F9T-10B

Reference: ELT0147

geopositioning electronics/L5/E5a 5G Network Synchronization USB Dongle with SMA time pulse out

Features:

- On board low noise 3.3 V voltage regulator
- USB interface with type A connector
- SMA antenna connector
- SMA time pulse connector
- u-center Evaluation Software
- · Extensive visualization and evaluation features
- Time pulse LED, Power LED
- Backup supercapacitor



GNSS FEATURES	
Receiver type	184-channel u-blox F9 engine Beidou, Galileo, GLONASS, GPS/QZSS, NavIC
GNSS platform	Concurrent GNSS
GNSS bands	L1C/A, L1OF, E1-B/C, B1I, B1C, L5, E5a, B2a, SPS-L5
Oscillators	TCXO

PERFORMANCE		
Accuracy of time pulse signal	Absolute timing mode 5 ns Differential timing mode 2.5 ns	
Frequency of time pulse	0.25 Hz to 25 MHz configurable	
Time pulse jitter	±4 ns	
Time mark resolution	8 ns	
Velocity accuracy	0.05 m/s	
Dynamic heading	0.3 deg	
accuracy		
	Navigation	n
Acquisition	Cold start Hot start Aided start update rat	e
GPS+GLO+GAL+BDS	24 s 2 s 2 s 8 Hz	
GPS+BDS+GAL	25 s 2 s 2 s 10 Hz	
GPS+GAL	29 s 2 s 2 s 15 Hz	
GPS+GLO	26 s 2 s 2 s 15 Hz	
GPS+BDS	28 s 2 s 2 s 12 Hz	
GPS	29 s 2 s 2 s 20 Hz	
Horizontal position	1.5 m CEP	
accuracy		
Sensitivity:		
Tracking and Navigation	-167 dBm	
Reacquisition	-160 dBm	
Cold start	-148 dBm	
Hot start	-157 dBm	

OTHER FEATURES	
Anti-jamming	Active CW detection and removal Dual band onboard pass filter
Anti-spoofing	Advanced anti-spoofing algorithms
Security	Secure boot Secure firmware update
Memory	Flash
RAW data support	Carrier phase, code phase and pseudo-range, Doppler on all signals
Operating temperature	0 °C to +50 °C
Supply voltage	4.5 V to 5.5 V
Supply current	<130 mA (without external antenna)
External antenna requirements	Supply voltage 3.0 V Consumption current <50 mA