

ED-F9T-10B

L1/L5/E5a 5G Network Synchronization RTK InCase PIN high accuracy timing module with SMA

Reference: ELT0144 Features:

- On board low noise 3.3 V voltage regulator
- USB, I2C (SDA, SCL), SPI and two UART (Tx, Rx) interfaces

184-channel u-blox F9 engine Beidou,

Concurrent GNSS

B2a, SPS-L5

TCXO

Galileo, GLONASS, GPS/QZSS, NavIC

L1C/A, L1OF, E1-B/C, B1I, B1C, L5, E5a,

- SMA active antenna connector
- 14 pin holes connector
- · Two time pulse out
- · u-center Evaluation Software
- · Extensive visualization and evaluation features
- Two time pulse LED, GEO LED, RTK LED
- Backup supercapacitor • Dimensions: 38x22 mm
- Weight: 9 gr.

GNSS FEATURES

Receiver type

GNSS platform

GNSS bands

Oscillators







PERFORMANCE			
Accuracy of time pulse signal	Absolute timing Differential timin		
Frequency of time pulse	0.25 Hz to 25 M	1Hz configurable	
Time pulse jitter	±4 ns		
Time mark resolution	8 ns		
Velocity accuracy	0.05 m/s		
Dynamic heading	0.3 deg		
accuracy			
Acquisition GPS+GLO+GAL+BDS GPS+BDS+GAL GPS+GAL GPS+GLO GPS+BDS GPS Horizontal position	24 s 2 25 s 2 29 s 2 26 s 2 28 s 2	start Aided start 2	Navigation update rate 8 Hz 10 Hz 15 Hz 15 Hz 12 Hz 20 Hz
accuracy			
Sensitivity: Tracking and Navigation Reacquisition Cold start Hot start	-167 dBm -160 dBm -148 dBm -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	