

Reference: ELT0095

Features:

- On board low noise 3.3 V voltage regulator
- USB interface, time pulse out
- 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
GNSS platform	Concurrent GNSS
GNSS bands	L1C/A, L1OF, E1-B/C, B1I, B1C, L2C, L2OF, E5b, B2I
Oscillators	ТСХО

PERFORMANCE				
Accuracy of time pulse	Absolute ti			
signal	Differentia			ns
Frequency of time pulse	0.25 Hz to	25 MHz o	configurable	
Time pulse jitter	±4 ns			
Time mark resolution	8 ns			
Velocity accuracy	0.05 m/s			
Dynamic heading	0.3 deg			
accuracy				
				Navigation
Acquisition	Cold start	Hot start	Aided start	update rate
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 CEF)		
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 voltage3.0 VConsumption current<50 mA