

Features:

- On-board low noise 3.3 V voltage regulator
- **USB** interface with type A connector
- SMA edge timepulse connector
- **SMA** edge antenna connector
- u-center Evaluation Software
- Extensive visualization and evaluation features
- Time pulse LED, Power LED
- Backup supercapacitor
- Dimensions: **85x30x15 mm**

Reference: **ELT0111**



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, L2C, L2OF, E5b, B2I
Oscillators	TCXO

PERFORMANCE

Baseline accuracy	0.01 m		
Heading accuracy	0.4 deg		
Convergence time			
GPS+ any other system	< 10 s		
GPS only	< 30 s		
Acquisition	Cold start	Hot/Aided start	Nav. update rate
GPS+GLO+GAL+BDS	25 s	2 s	8 Hz
GPS+BDS+GAL	25 s	2 s	8 Hz
GPS+GAL	30 s	2 s	10 Hz
GPS+GLO	26 s	2 s	10 Hz
GPS+BDS	28 s	2 s	10 Hz
GPS	30 s	2 s	10 Hz
Velocity accuracy	0.05 m/s		
Dynamic heading accuracy	0.3 deg		
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