

Features:

- Centimeter accuracy for mass-market applications
- On-board low noise 3.3 V voltage regulator with noise 9 nV/√Hz
- **USB, I2C** (SDA, SCL), **SPI** and **UART** (Tx, Rx) interfaces
- **USB** interface with **type A** connector
- 6 pin JST SH connector
- SMA active antenna connector
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Time pulse LED, GEO LED, RTK LED
- Supports ARTK
- Battery holder for 3 V type 621 Lithium battery
- Dimensions: **40x20 mm** without SMA
- Weight: **9 gr.**

Reference: **ELT0078**



GNSS FEATURES

Receiver type	72-channel u-blox F8 engine GPS L1 C/A, GLONASS L10F, Beiidou B1I
GNSS platform	Concurrent GNSS
GNSS bands	L1C/A, L10F, B1I
Oscillators	TCXO

PERFORMANCE

Horizontal pos. accuracy						
PVT	2.5 m CEP					
RTK	0.025 m + 1 ppm CEP					
Convergence time RTK	< 60 s					
GPS+GLO	< 60 s					
GPS+BDS	< 3.5 min					
GPS						
				Nav. update rate		
Acquisition	Cold start	Hot/Aided start	RTK	PVT	RAW	
GPS+GLO	26 s	1/2 s	5 Hz	5 Hz	10 Hz	
GPS+BDS	28 s	1/2 s	5 Hz	5 Hz	10 Hz	
GPS	29 s	1/2 s	8 Hz	10 Hz	10 Hz	
Velocity accuracy	0.05 m/s					
Dynamic heading accuracy	0.3 deg					
Sensitivity:						
Tracking and Navigation	-160 dBm					
Reacquisition	-160 dBm					
Cold start	-148 dBm					
Hot start	-157 dBm					

OTHER FEATURES

Anti-jamming	Active CW detection and removal Extra onboard band pass filter	
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	<70 mA (without external antenna)	
External antenna requirements	Supply voltage	3.0 V
	Consumption current	<50 mA