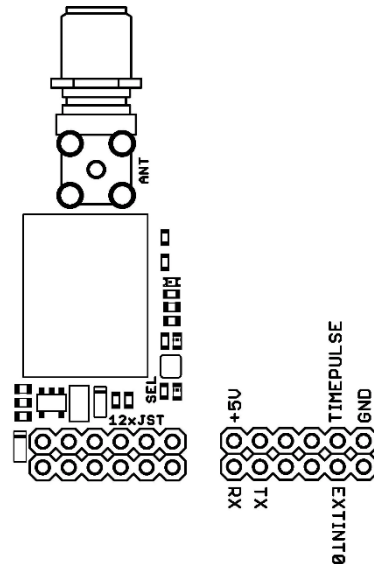


Features:

- On-board Ultra low noise 3.3 V voltage regulator and RF filter for noise blocking
- **UART (Tx,Rx) RAW data out avail**
- **SMA active antenna connector**
- Time pulse LED 1, Time pulse LED 2
- 12 pin 6x 2 row holes with pitch 2.54 mm
- u-center GPS evaluation software
- Extensive visualization and evaluation features
- Battery holder for 3 V type 621 Lithium battery
- Dimensions: 36x19 mm
- Weight 6.8 gram

Reference: ELT0183



GNSS FEATURES

Receiver type	u-blox F10T engine GPS/QZSS L1 C/A, L5 Galileo E1B/C, E5a NavIC L5 SBAS L1C/A: WAAS, EGNOS, L1Sb, GAGAN	GLO L10F, BDS B1C, B2a
GNSS platform	Concurrent GNSS	
GNSS bands	L1C/A, L10F, E1-B/C, B1C, SPS-L5	
Oscillators	TCXO	

PERFORMANCE

Time pulse accuracy	≤ 10 ns (1-sigma, clear sky, dual-band mode)
Time pulse frequency	0.25 Hz ... 25 MHz
Time pulse jitter	±8 ns
Time mark resolution	16 ns
Position accuracy	2.0 m CEP (standalone)

Acquisition	Cold start	26s
	Aided start	2s
	Reacquisition	1s

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

RAW data	Carrier phase, code phase and pseudo-range, Doppler on all signals	
Integrity reports	T-RAIM active, phase uncertainty, Time pulse rate/duty-cycle, inter-constellation biases	
Anti-jamming	Additional SAW filter and LNA	
Anti-spoofing	Spoofing detection	
Memory	Flash	
Operating temperature	0 °C to +50 °C	
Supply voltage	4.5 V to 5.5 V	
Supply current	<25 mA (without external antenna)	
External antenna requirements	Supply voltage	3.0 V
	Consumption current	<50 mA