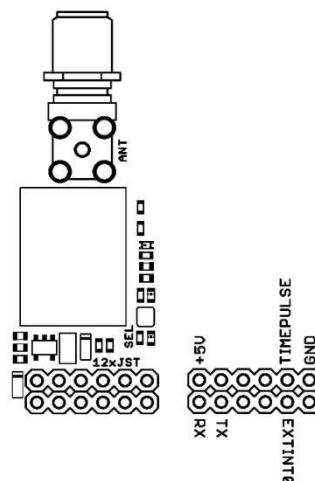


Features:

- 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 GLO L10F, Galileo E1B/C, E5a BDS B1C, B2a NavIC L5
	SBAS L1C/A: WAAS, EGNOS, L1Sb, GAGAN
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