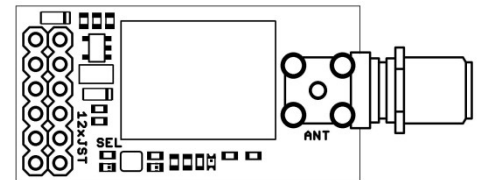


Features:

- Continuous navigation in urban environment, even at signal loss, with speed or wheel-tick information from the vehicle
- On-board low noise 3.3 V voltage regulator and RF filter for noise blocking
- **USB, I2C, SPI and UART** (Tx, Rx) **RAW** data out available
- **SMA** active antenna connector
- Active GNSS antenna support
- 12 pin 6x2 row holes with pitch 2.54 mm
- Time pulse LED 1, Time pulse LED 2
- 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 gr.**

Reference: ELT0066



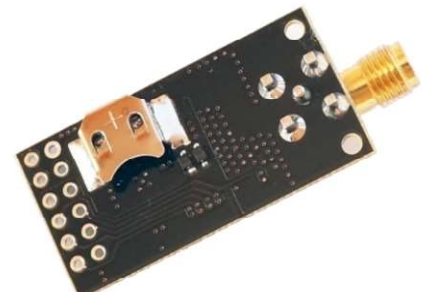
RX/SPI MOSI (O) +5V
 TX/SPI MISO (O) SCL/SPI CLK
 EXTINT1 (O) SDA/SPI CS
 USB D(+) (O) USB D(-)
 EXTINT0 (O) TIMEPULSE
 TIMEPULSE<2> (O) GND

GNSS FEATURES

Receiver type	72-channel u-blox M8 engine GPS/QZSS L1 C/A, GLONASS L1OF, Beidou B1I, Galileo E1B/C, SBAS L1 C/A: WAAS, EGNOS, MSAS, GAGAN
GNSS platform	Concurrent GNSS
GNSS bands	L1C/A, L1OF, E1-B/C, B1I
Oscillators	Crystall Oscillator

PERFORMANCE

Position accuracy (GPS)	1.5 m CEP (with SBAS) 2.5 m CEP (without SBAS)
Attitude accuracy (GPS)	3.0 m CEP (with SBAS)
Position error during GNSS loss	Rear wheel ticks 12% Gyro + speed pulse 3% Gyro + speed pulse + accelerometer 2%
Max nav. update rate	30 Hz
Nav update rate (PVT)	2 Hz
Navigation latency	<10 ms
Max sensor output rate	100 Hz
Acquisition	Cold start Hot start Aided start
GPS+GLONASS	26 s 1.5 s 3 s
GPS	30 s 1.5 s 3 s
GLONASS	31 s 1.5 s 3 s
Beidou	39 s 1.5 s 7 s
Galileo	57 s 1.5 s 7 s
Velocity accuracy	0.05 m/s
Heading accuracy	1 deg
Sensitivity (GPS+GLO):	
Tracking and Navigation	-167 dBm
Reacquisition	-160 dBm
Cold start	-148 dBm
Hot start	-157 dBm



OTHER FEATURES

Anti-spoofing	Spoofing detection
Memory	Flash
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