

## Features:

- Antenna input with SMA connector
- PPS output with SMA connector
- USB C connector
- Green Time pulse LED, purple Power LED, red LED (GPIO1), orange LED (GPIO2)
- RxTools Control and Analysis Software
- Extensive visualization and evaluation features
- Dimensions 85x30x15 mm
- Weight: 20 gr.
- Fully assembled, tested and ready to use

Reference: **ELT0752**



## MODULE FEATURES

789 hardware channels for simultaneous tracking of all visible supported satellite signals

5 constellations RTK engine (rover) and advanced RTK technology

Full raw measurement data

AIM+: Industry leading Anti-jamming, Anti-spoofing Interference Monitoring and Mitigation

IONO+: Advanced protection against ionospheric disturbances to GNSS signals

APME+: a posteriori multipath estimator for code and phase multipath mitigation

LOCK+: superior tracking robustness under heavy mechanical shocks or vibration

RAIM+: Advanced Receiver Autonomous Integrity Monitoring

22.8 x 16.4 x 2.4 mm LGA package

## PERFORMANCE

Frequency: GPS: L1C/A, L1C, L2C, L2P(Y), L5  
GLONASS: L1CA, L2CA, L2P, L3 CDMA  
Beidou: B1I, B1C, B2a, B2I, B2b, B3I  
Galileo: E1, E5a, E5b, E6  
QZSS: L1C/A, L1C/B, L2C, L5, L6\*  
\* L6 support and Galileo HAS support will be rolled out via software update

Single point positioning (RMS): Horizontal: 1.2 m  
Vertical: 1.9 m  
Time Precision(xPPS out) - 1.4 ns  
Event accuracy < 3 ns  
Cold start < 35 s  
Data Update Rate: 20 Hz

DGPS (RMS): Horizontal: 0.4 m  
Vertical: 0.7 m  
Data Update Rate: 20 Hz  
Differential Data - RTCM V2.X

RTK (RMS): Horizontal: 0.6 cm + 0.5 ppm  
Vertical: 1cm + 1 ppm  
Initialization Time: 7 s  
Data Update Rate: 20 Hz  
Differential Data - RTCM V3.X (MSM included)  
Data Format - NMEA-0183, v2.3, v3.03, v4.0, RINEX v2.x, v3.x, Septentrio Binary Format (SBF), RTCM V3.X (MSM included)

## OTHER FEATURES

Physical Characteristics: Packaging: 94 pin LGA  
Dimension: 22.8 × 16.4 × 2.4 mm  
Weight: 2.2g

Environmental Specifications: Working temperature: -40 °C ~ +85 °C  
Storage temperature: -55 °C ~ +85 °C  
Humidity: 5% ~ 95% No condensation  
Vibration: IEC 60721-3-5 Profile 5M3, MIL-STD-810H 514.8 Category 4, MIL-STD-810H 516.8 Procedure 1

Communication Interfaces: 2 × UART (LVTTTL, up to 4Mbps, one with hardware flow control)  
1 × USB (2.0, HS up to 480Mbps)  
2 × Event inputs  
2 × GPIO  
2 × PPS out