

## Features:

- Two antenna inputs with SMA or IPEX connectors
- USB C connector
- 2 x UART with hardware flow control interface on JST connector
- EVENTA, EVENTB external event inputs on JST connector
- PPS output on JST connector
- SD card for data logging
- Time pulse LED, Power LED, RTK LED, Geofence LED
- RxTools Control and Analysis Software
- Extensive visualization and evaluation features
- Dimensions: 34x52 mm
- Weight: 15 gr
- Fully assembled and ready to use

## Reference: ELT0713



## GNSS FEATURES

Supports all-constellation multi-frequency on-chip RTK positioning and dual-antenna heading solution

Supports GPS L1/L2, BDS B11/B21/B31, GLONASS G1/G2, Galileo E1/E5b and QZSS L1/L2

All-system multi-frequency RTK engine and advanced RTK technology

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

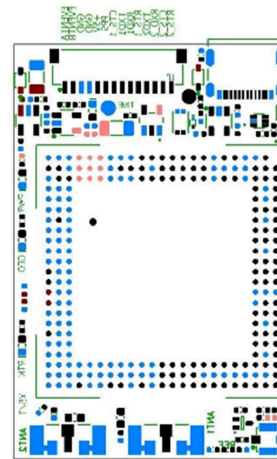
## PERFORMANCE

Frequency: GPS L1C/A/L2P (Y)/L2C  
BDS B11/B21/B31  
GLONASS G1/G2  
Galileo E1/E5b  
QZSS L1C/A, L1C/B, L2C

Single point positioning (RMS): Horizontal: 1.2 m  
Vertical: 1.9 m  
Time Precision(xPPS out) - 5 ns  
Data Update Rate: 100 Hz

DGPS (RMS): Horizontal: 0.4 m  
Vertical: 0.7 m  
Cold start < 45 s  
Initialization Time < 1 s (typical)

RTK (RMS): Horizontal: 0.6 cm + 0.5 ppm  
Vertical: 1cm + 1 ppm  
Data Update Rate: 20 Hz  
Differential Data - RTCM V2.x, V3.X (MSM included), CMR v2.0/CMR+ (input only)  
Data Format - NMEA-0183, v2.3, v3.03, v4.0, RINEX v2.x, v3.x, Septentrio Binary Format (SBF)



J1	
1	EVENTA
2	EVENTB
3	GND
4	GND
5	+5V
6	TIME
7	CTS_1
8	TX_1
9	RX_1
10	RTS_1
11	TX_2
12	RX_2
13	CTS_2
14	RTS_2

## OTHER FEATURES

Physical Packaging: 239 pin LGA  
Characteristics: Dimension: 31.0 × 31.0 × 4.2 mm  
Weight: 6.8g

Environmental Specifications: Working temperature: -40 °C ~ +85 °C  
Storage temperature: -55 °C ~ +85 °C  
Humidity: 95% No condensation  
Vibration: MIL-STD-810G

Communication Interfaces: 4 × UART (3 with hardware flow control)  
1 × USB (2.0, HS)  
1 × Ethernet (RMII/MDIO), 10/100 Mbps  
1 × SD memory card  
2 × Event inputs  
2 × GPIO  
1 × PPS out