Features:

- Fanless setup, passive cooling
- Build-in RF splitter for direct connection in multi-receiver setup
- Raspberry-PI RPI Zero 2 W
- RP3A0 SoC, ARM Cortex-A53@1GHz
- WiFi 2.4 GHz 802.11n
- ELT_RtkBase full-featured software
- ELT_RTKBase User Guide
- microSD card 32GB with pre-installed software and documentation
- GNSS antenna input with SMA connector
- USB C receiver port, USB C power in port
- Power LED, GNSS LED, Internet LED and NTRIP LED
- Backup supercapacitor
- Dimensions: 100x100x22.5 mm
- Weight: 140 gr.
- Fully assembled and ready to use

Reference: ELT0233

MODULE FEATURES

Based on the new generation GNSS SoC - NebulasIV, which integrates RF, baseband, and high precision algorithm

17.0 x 22.0 x 2.6 mm LGA package

Supports on-chip RTK positioning calculation on all systems and multiple frequencies

Supports GPS L1C/A/L1C/L2P(Y)/L2C/L5, BDS B1I/B2I/B3I/B1C/B2a/B2b, GLONASS G1/G2/G3, Galileo E1/E5a/E5b/E6, QZSS L1C/A/L1C/L2C/L5, NavIC L5 and SBAS L1C/A

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

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

Independent tracking of different frequencies and 60dB narrowband anti-jamming technology

PERFORMANCE

Channels:	1408 channels, based on NebulasIV
Frequency:	GPS L1C/A/L1C/L2P(Y)/L2C/L5 BDS B1I/B2I/B3I/B1C/B2a/B2b GLONASS G1/G2/G3 Galileo E1/E5a/E5b/E6 QZSS L1C/A/L1C/L2C/L5/L6* NavIC L5 SBAS L1C/A
Single point positioning (RMS):	Horizontal: 1.5 m Time Accuracy (RMS) - 20 ns Vertical: 2.5 m Velocity Accuracy (RMS) - 0.03 m/s
DGPS (RMS):	Horizontal: 0.4 m Cold start < 12 s Vertcal: 0.8 m Initialization Time < 5 s (typical)
RTK (RMS):	Horizontal: 0.8 cm + 1 ppm Initialization Reliability > 99.9% Vertical: 1.5cm + 1 ppm Data Update Rate 50 Hz* Positioning Differential Data - RTCM V3.X Data Format - NMEA-0183, Unicore

Observation accuracy (RMS)	BDS	GPS	GLONASS	Galileo
B1I/L1 C/A/G1/E1 Code	10 cm	10 cm	10 cm	10 cm
B1I/L1C/A/G1/E1 Carrier Phase	1 mm	1 mm	1 mm	1 mm
B2I/L5/E5a/E5b Code	10 cm	10 cm	10 cm	10 cm
B2I/L5/E5a/E5b Carrier Phase	1 mm	1 mm	1 mm	1 mm
B3I/L2P(Y)/L2C/G2 Code	10 cm	10 cm	10 cm	10 cm
B3I/L2P(Y)/L2C/G2 Carrier Phase	1 mm	1 mm	1 mm	1 mm

OTHER FEATURES

Physical Characteristics:	Packaging: 54 pin LGA Dimension: 17.0 × 22.0 × 2.6 mm Weight: 1.88 ± 0.03 g
Environmental Specifications:	Working temperature: -40 °C ~ +85 °C Storage temperature: -55 °C ~ +95°C Humidity: 95% No condensation Vibration: MIL-STD-810F Shock: MIL-STD-810F
Communication Interfaces:	3 × UART (LVTTL) 1 × I2C* 1 × SPI* (slave) 1 × CAN* (shared with UART3)