

Features:

- Antenna input with SMA connector
- On-board low-noise 3.3V voltage regulator
- USB port with USB A connector
- Time pulse LED, RTK LED, Power LED
- UPrecise Unicore evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: 85x30x15 mm
- Fully assembled and ready to use

Reference: ELT0222



GNSS FEATURES

Receiver type	1408-channel NebulasIV engine Beidou, Galileo, GLONASS, GPS/QZSS
GNSS platform	All-constellation Concurrent GNSS
GNSS bands	GPS L1C/A/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 SBAS L1C/A

PERFORMANCE

Horizontal pos. accuracy

Single point (RMS)	1.5 m
DGPS (RMS)	0.4 m + 1 ppm
RTK (RMS)	0.008 m + 1 ppm

Vertical pos. accuracy

Single point (RMS)	2.5 m
DGPS (RMS)	0.8 m + 1 ppm
RTK (RMS)	0.015 m + 1 ppm

Heading accuracy (RMS)	0.1°/1 m baseline
Velocity accuracy (RMS)	0.03 m/s
Time accuracy (RMS)	< 20 ns

Observation accuracy (RMS)

Pseudorange (all systems)	10cm
Carrier Phase (all systems)	1 mm

RTK Initialization time	< 5 s (typ)
RTK initialization reliability	> 99.9%
Time to First Fix	Cold start < 30 s Warm start < 20 s

Data update rate	50 Hz Positioning
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OTHER FEATURES

Anti-jamming	60dB narrowband anti-jamming technology Active CW detection and removal Jamming status for each frequency
Anti-spoofing	Advanced anti-spoofing algorithms
RTK technology	Instantaneous RTK initialization
Operating temperature	0 °C to +50 °C
Supply voltage	5 V
Supply current	<150 mA typ (without external antenna)
External antenna requirements	Supply voltage <5.0 V Consumption current <100 mA