

Features:

- Full size mini PCI express compatible
- Two antenna inputs with IPEX connectors
- Only USB interface used
- Time pulse LED, GEO LED, RTK LED, Power LED
- u-precise Unicore evaluation software
- Extensive visualization and evaluation features
- Backup supercapacitor
- Dimensions: 30x51 mm
- Weight 10 gram
- Fully assembled and ready to use

Reference: ELT0216



GNSS FEATURES

Receiver type	1408-channel NebulasIV engine Beidou, Galileo, GLONASS, GPS/QZSS
GNSS platform	All-constellation Concurrent GNSS
GNSS bands	L1C/A/L2P (Y)/L2C/L5, B1I/B2I/B3I, G1/G2, E1/E5a/E5b, L1/L2/L5
GNSS technology	Dual RTK

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 < 30s

Data update rate	Dual antenna 20 Hz
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OTHER FEATURES

Heading	Angle from the True North to the baseline between Master and Slave antennas Angle from True North to the baseline of the base to rover in RTK mode.
Anti-spoofing	Advanced anti-spoofing algorithms
Anti-jamming	Active CW detection and removal Jamming status for each frequency
Operating temperature	0 °C to +50 °C
Supply voltage	3.3 V
Supply current	<200 mA typ (without external antenna)
External antenna requirements	Supply voltage <3.0 V Consumption current <100 mA