

GNSS RECEIVER

FLYBOX



Compact GNSS receiver for UAV integration



STRONG EVENT

No false events

FLYBOX is a simple compact GNSS receiver with an external antenna. This device has the enclosure which provide EMC protection.

You can setup build-in comparator for define value of silence period. All "false" events out of this period will cut off. So, for example, each photo will corresponds to a single event while aerial photography.

SIGNAL TRACKING

- 574 channels:
 - GPS: L1 C/A, L2C, L2P, L5
 - BeiDou: B1, B2, B3
 - GLONASS: L1 C/A, L1P, L2 C/A, L2P
 - Galileo: E1, E5a, E5b
 - SBAS: WASS, EGNOS, MSAS, GAGAN

PERFORMANCE

- Cold start: <50 s
- Warm start: <45 s
- Hot start: <15 s
- RTK Initialization time: <10 s
- Signal reacquisition: <2 s
- Initialization reliability: >99.9%
- Velocity accuracy: 0.03 m/s
- Acceleration: 4 g
- Overload: 15 g
- Time accuracy: 20 ns

DATA FORMAT

- Correction data I/O: RTCM 2.X, 3.X, CMR(GPS only), CMR + (GPS only)

- Position data output:
 - NMEA-0183
 - ComNav protocols
 - Data output rate: 1 Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz*

POSITIONING

RTK:
Horizontal: 8 mm + 1 ppm
Vertical: 15 mm + 1 ppm

DGPS: < 0.4 m 3D RMS

Standalone: < 1.5 m 3D RMS

SBAS: < 1 m 3D RMS

Post Processing:
Horizontal: 2.5 mm + 1 ppm
Vertical: 5 mm + 1 ppm

COMMUNICATIONS

- 1 USB
- 1 Event Marker input
- GNSS antenna Lemo1 mini (f)

- 2 LED indicators show the working status

PHYSICAL

- Size (L × W × H): 135 mm × 76 mm × 27 mm
- Weight: 1590 g

ENVIRONMENTAL

- Working temperature: -40°C to +85°C
- Storage temperature: -40°C to +85°C
- Humidity: up to 100% (condensation)
- Waterproof and dustproof: IP65

ELECTRICAL

- Input voltage: +9.0 V ~ +28.0 VDC
- Power consumption: up to 3 W