EFIX

Stronger signal , easy to fix.



F7+

POCKET-SIZE IMU GNSS RECEIVER

EFIX

Stronger signal , easy to fix.



POCKET-SIZE IMU-RTK WITH HIGH ACCURACY

Lightweight design, uncompromised performance.

PALM-SIZE, FITS PERFECTLY IN YOUR HAND

- Compact and ergonomic design for a comfortable grip.
- Only 0.77 kg.
- Designed for maximize productivity in the field.

FULLY INTEGRATED GNSS+IMU FOR GREATER EFFICIENCY

- Maintain high accuracy even when not held vertically.
- Access hard-to-reach or unsafe locations with ease.
- Boosts operational efficiency by up to 30%.

RUGGED AND RESISTANT

- Magnesium alloy housing makes the F7+ lightweight yet highly durable.
- IP67 dust and waterproof.
- Resistant to 2 m drop.

SMART BATTERY MANAGEMENT, UP TO 24H RTK OPERATION

- Optimized power consumption ensures up to 24 hours in RTK mode and 25 hours in static mode.
- Rechargeable via mobile power bank for uninterrupted workflow.

FULL CONSTELLATION SUPPORT AND ADVANCED RTK ENGINE

- Track full constellation of GPS, GLONASS, BeiDou, Galileo, and QZSS with 1608 channels.
- Achieve centimeter accuracy with advanced RTK technology.
- Adaptive anti-interference and multipath mitigation for stable performance.



FL3

LONG-DISTANCE AND RUGGED DATALINK

- Long-distance transmission of RTK corrections.
- Easily adjustable transmission power rate to suit different environments and conditions.
- Optimized user interface for easy configuration and control of the data link.
- Rugged industrial design suitable for various challenging working environments.

FC2

DESIGNED FOR RELIABILITY AND PRODUCTIVITY

- IN FIELD WORKS
- High visibility screen.
- Fast and powerful processor.
- Robust industrial design.
- Integrated versatile features.
- Extended productivity.





eField

PRODUCTIVITY IS THE PRIORITY

- Comprehensive and intuitive for surveying and engineering.
- Strong graphic engine enables rich GIS and mapping features.
- Intuitive user interface makes the professional software easy to learn and easy to use.

TECHNICAL SPECIFICATIONS

GNSS Performances [1]	
Channels	1608 channels
GPS	L1C/A, L2C, L2P(Y), L5
GLONASS	L1, L2, L3*
Galileo	E1, E5a, E5b, E6*
BeiDou	B1I, B2I, B3I, B1C, B2a, B2b*
QZSS	L1C/A, L1C, L2C, L5
NavIC/ IRNSS	L5
PPP	B2b-PPP, E6B-HAS
SBAS	EGNOS (L1, L5*)

GNSS Accuracies [2]	
Real time kinematic (RTK)	Horizontal: 8 mm + 1 ppm RMS Vertical: 15 mm + 1 ppm RMS Initialization time: < 10 s Initialization reliability: >99.9%
Post - processing kinematics (PPK)	Horizontal: 3 mm + 1 ppm RMS Vertical: 5 mm + 1 ppm RMS
PPP	Support PPP-B2b, E6B-HAS H: 10 cm I V: 20 cm
Post - processing static	Horizontal: 2.5 mm + 0.5 ppm RMS Vertical: 5 mm + 0.5 ppm RMS
Code differential	Horizontal: 0.4 m RMS Vertical: 0.8 m RMS
Autonomous	Horizontal: 1.5 m RMS Vertical: 2.5 m RMS
Positioning rate[3]	1 Hz, 5 Hz and 10 Hz
Time to first fix[4]	Cold start: < 45 s Hot start: < 10 s Signal re-acquisition: < 1 s

IMU Sensor	
IMU Type	4D AUTO-IMU
IMU update rate	200 Hz
IMU tilt angle	0-60°
Additional horizontal pole-tilt	Typically less than 2.5 cm within 30°

Hardware	
Size (L x W x H)	Φ119 mm x 85 mm (Φ4.69 in × 3.35 in)
Weight	0.77 kg (1.7 lb)
Front panel	4 LED, 2 physical buttons
Environment	Operating: -40 °C to + 65 °C (-40 °F to + 149 °F) Storage: -40 °C to + 85 °C (-40 °F to + 185 °F)
Humidity	100% non-condensation
Ingress protection	IP67[5]
Drop	Survive a 2-meter pole drop
Tilt sensor	Calibration-free IMU for pole-tilt compensation. Immune to magnetic disturbance

Communication	
Wi-Fi	802.11 b/g/n, access point mode
Bluetooth®	V4.2
Ports	1 x USB Type-C port (external power, data download, firmware update) 1 x UHF antenna port (TNC female)
UHF radio	Standard Internal Rx/Tx: 410 - 470 MHz Transmit Power: 0.5 W, 1 W Protocol: EFIX, Transparent, TT450, Satel[6] Link rate: 9600 bps to 19200 bps Range: Typical 3 km,up to 8 km with optimal conditions
Data formats	RTCM 2.x, RTCM 3.x, CMR input / output RINEX 2.11, 3.02 NMEA 0183 output NTRIP Client, NTRIP Caster
Data storage	8 GB internal memory

Electrical	
Power consumption	Typical 2.2 W (depending on user settings)
Li-ion battery capacity	Built-in non-removable battery 6,600 mAh, 7.2 V
Operating time on internal battery [7]	UHF RTK Rover: up to 24 h UHF RTK Base: up to 10.5 h Static: up to 25 h
External power input	Type-C 5 V / 2 A

Certifications

IEC 62133-2:2017+A1, IEC 62368-1: 2014,
EN 62368-1:2014+A11:2017, UN Manual Section 38.3

*All specifications are subject to change without notice.
(1) Compliant, but subject to availability of BDS ICD, GLONASS, Galileo, QZSS and IRNSS commercial service definition. GLONASS L3, Galileo E6, Galileo E6 High Accuracy Service (HAS), BDS B2b and SBAS L5 will be provided through future firmware upgrade.
(2) Accuracy and reliability are determined under open sky, free of multipaths, optimal GNSS geometry and atmospheric condition. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.
(3) Compliant and 10 Hz to be provided through future firmware upgrade.
(4) Typical observed values.
(5) Splash, water, and dust resistant and were tested under controlled laboratory conditions with a rating of IP67 under IEC standard 60529.
(6) The use of UHF datalink may be subject to local regulations. Users must ensure that the device is not operated without the permission of the local authorities on frequencies or power output other than those specifically reserved and intended for use without required permit. Compliant and Satel protocol to be provided through future firmware upgrade.
(7) Battery life is subject to operating temperature.

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Easy to Fix

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