



# GNSS Receiver **T10Pro**

Engineering-level Standard RTK

# T10Pro GNSS Receiver

T10Pro is a latest portable multifunctional GNSS receiver, a new generation of measurement engine, supporting tilt measurement, NFC, built-in 4G Modem, Bluetooth and WIFI. It adopts a new appearance design, magnesium alloy structure and Linux operating system. It is an extremely light-weight, fully functional and portable geodesic GNSS receiver.

## CHARACTERISTIC

### Linux Intelligent System

ARM Cortex-A7 + Linux, the intelligent system platform, brings efficient computing and unlimited expansion of product functions to users.

### Multi Constellation

With its 1408 channels, T10Pro provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BDS, GALILEO, QZSS, SBAS and IRNSS) are included.

### Tilt Measurement

T10Pro has the IMU module. Fast initialization and up to 60° inclination.

### Combined Antenna

The new four in one antenna integrates GNSS, WIFI, Bluetooth and 4G, with smaller volume and better signal.

### 4G Modem

T10Pro has an internal 4G Modem that operates with more cellular network signals, a fast internet connection is guaranteed.

### Long Endurance

Built in high-capacity lithium battery ensures continuous working time of more than 16 hours under normal operation.

### IP68 Design

Industrial design, solid magnesium alloy shell, in line with IP68 design requirements, safe and reliable.

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Four-in-one  
microwave antenna

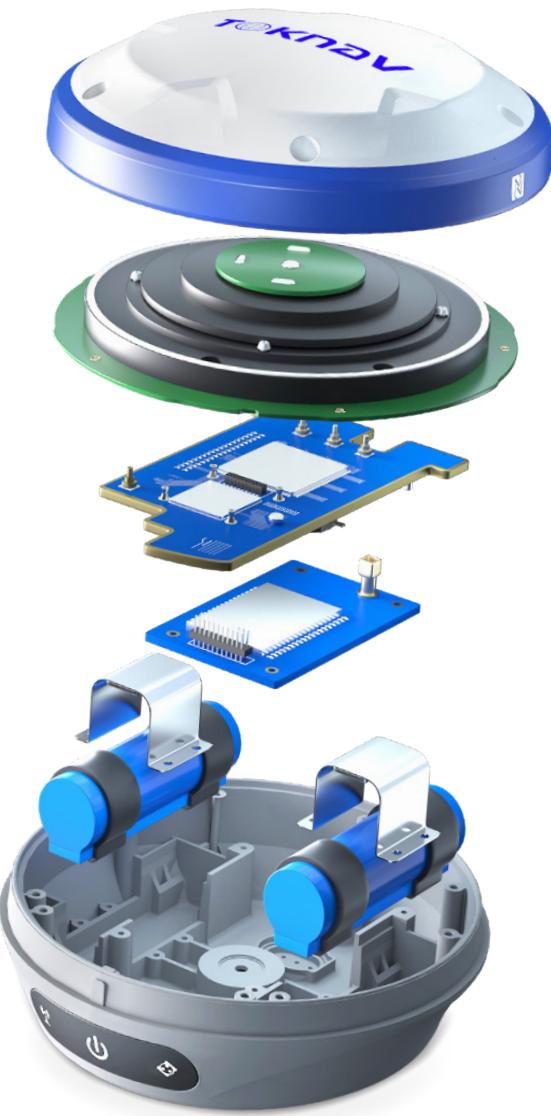
1408 Channel  
GPS GLONASS BDS GALILEO  
QZSS SBAS

Intelligent voice  
promption

3.7V, 9600mAh  
Over 16 Hours

Complete certification  
NGS, CE, FCC, KC

IMU60 supported  
Fast initialization



## Engineering-level Standard



HEIGHT 68mm | DIAMETER 147.9mm | WEIGHT 740g

The 5th generation IMU technology  
With IP68 protection, it's resilient in harsh environments.  
A 9600mAh battery, with a runtime of up to 16 hours.



# SPECIFICATION

SISTEMA	
HARDWARE SYSTEM	ARM Cortex-A7 1.8GHz
OS	Linux
GNSS	
GPS	L1C/A, L1C, L2P(Y), L2C, L5
GLONASS	L1, L2, L3
BDS	B1I, B2I, B3I, B1C, B2a, B2b(PPP)
GALILEO	E1, E5a, E5b, E6(PPP)
QZSS	L1, L2, L5
SBAS	L1(PPP)
NavIC (IRNSS)	L5*(IRNSS support in future)
Channel	1408
Data format	NMEA-0183
Correction I / O Protocol	RTCM 2.X, RTCM3.X
Data update frequency	5 Hz (típico) 20 Hz (máx.)
Recapture Time	<1s
Cold Boot	<30s
POSITIONING ACCURACY	
Single (RMS)	Horizontal: 1.5m / Vertical: 2.5m
DGPS (RMS)	Horizontal: 0.4m / Vertical: 0.8m
RTK (RMS)	Horizontal: $\pm$ (8mm+1ppm) Vertical: $\pm$ (15mm+1ppm)
Time Accuracy (RMS)	20ns
Static Accuracy (RMS)	Horizontal: $\pm$ (2.5mm+0.5ppm) Vertical: $\pm$ (5mm+0.5ppm)
Speed Accuracy (RMS)	0.03m/s
Tilt compensation Accuracy(within 60°)	$\leq$ 2cm
SYSTEM	
Bluetooth	BR+EDR+BLE
WIFI	802.11 b/g/n
Network	LTE FDD: B1/2/3/4/5/7/8/12/13/ 18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8
Storage	32GB Almacenamiento

Data Radio	Frecuencia:410~470MHz Protocolo: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT Potencia de transmisión por radiofrecuencia: 0.5W/1.5W Velocidad en baudios del aire:9600 / 19200bps
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INDICATOR	
Power Indicator	Show power status
Satellite Indicator	Show position status
Data link Indicator	Show differential signal status

BATTERY	
Battery	3.7V, 9600mAh
Work time	More than 16 hours (Typical, Rover, GSM) The static working mode supports continuous data collection for 24 hours under full power
Charge	MTK PE+1.2.0 9V/2A USB PD 12V/1.25A 5V/3A Support fast charging adapter and adaptively and dynamically adjust charging current

ENVIRONMENTAL	
Work Temperature	-20°C~+60°C
Storage Temperature	-40°C~+85°C
Shock	Soporta caídas desde postes de 1.5M
Protection	IP68

PHYSICAL	
Material	Magnesium alloy main body, ABS/PC top cover
Dimension	$\Phi$ 147.9mm*68mm
Weight	740g

A FULL SET	
T10Pro Device	1SET
USB power adapter	1PCS
USB A To Type-C	1PCS
Radio Antenna	1PCS

CERTIFICATION	
Cumplimiento normativo	NGS, CE, FCC, KC 

® [www.toknav.cn](http://www.toknav.cn)  [info@toknav.cn](mailto:info@toknav.cn)

Manufacturers may update parameters at any time, please refer to the latest product information.



Europe, North & South America  
Tel & WhatsApp: +1 (323) 847-7713 (Ian)  
Asia, Africa & Oceania  
Tel & WhatsApp: +86 139 2607 5986 (Jeffrey)

Guangzhou Toksurvey Information Technology Co., Ltd

No. 9 Caipin Road, Building B, Room 801-6,  
Huangpu District, Guangzhou, China