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TOKNAV



GNSS Receiver

T20Pro

Multifunctional Intelligent RTK

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T20Pro GNSS Receiver

T20Pro is a high-performance GNSS receiver that provides an easy-to-use solution for users. TOKNAV T20Pro supports the original tilt compensating GNSS solution. Multi constellation and frequency tracking always guarantee a fixed solution for your job. LCD display screen can make your operation faster and easier. T20Pro built-in 5W radio allows users to have a longer working distance, up to 16km in open areas, The durable IP68 design makes it possible to work in extreme environments.

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, T20Pro provides an excellent on board real time navigation solution with high accuracy. All GNSS signals (GPS, GLONASS, BDS, GALILEO, QZSS and SBAS) are included.

Adjustable Power

T20Pro has internal radio of adjustable power of 1W/2W/5W, and works as base station at 5W power. The transmission distance can reach to maximum 16km when working in the open area.

Combined Antenna

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

4G Modem

T20Pro 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 18 hours under normal operation.

Equipped with electronic fence system, Toknav's product have area code restrictions. Any issue please contact Toknav or local dealers to verify the specific details.

T20Pro GNSS Receiver

Multifunctional Intelligent RTK

Main body magnesium alloy
ABS/PC top cover

1408 Channel

GPS GLONASS BDS GALILEO
QZSS SBAS

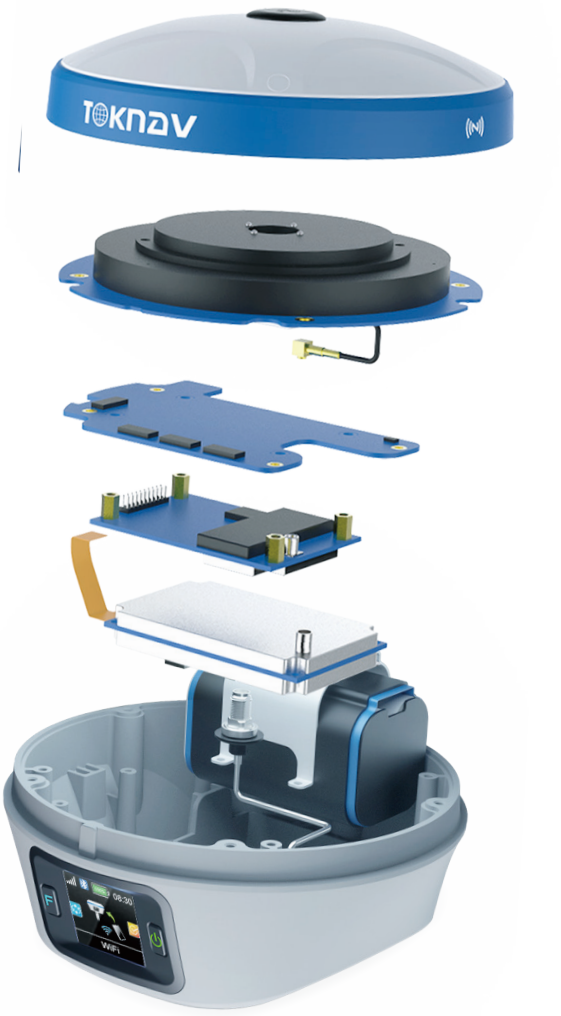
Adjustable power
of **1W/2W/5W**

7.4V, 6500mAh

More than 18 Hours
(Typical, Rover, GSM)

Comprehensive network coverage
Compatible with global network

The 5th generation
IMU technology





HEIGHT	DIAMETER	WEIGHT
90.7 mm	143.5 mm	900 g

5W Radio, transmission distance up to 16km

LCD display

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SPECIFICATION

SYSTEM	
HARDWARE SYSTEM	ARM Cortex-A7 1.8GHz
OS	Linux

GNSS	
GPS	L1 C/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
Channel	1408
Standard Output	NMEA-0183
Correction I/O Protocol	RTCM 3.X
Frequency	20Hz(max)
Reacquisition Time	<1s
Cold Start Time	<40s

ACCURACY	
SINGLE (RMS)	Horizontal: 1.5m / Vertical: 2.5m
DGPS (RMS)	Horizontal: 0.4m / Vertical: 0.8m
RTK (RMS)	Horizontal: ± (8mm+1ppm) Vertical: ± (15mm+1ppm)
Timing Precision (RMS)	20ns
Static Mode Precision (RMS)	Horizontal: ± (2.5mm+0.5ppm) Vertical: ± (5mm+0.5ppm)
Velocity Estimation (RMS)	0.03m/s
Tilt Correction (Within 60°)	<2cm

SYSTEM PLATFORM	
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
Radio	Frequency: 410~470MHz Protocols: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT
Radio	RF transmit power: 1W/2W/5W Air Baud Rate: 9600, 19200bps
Storage	32GB storage

DISPLAY	
LCD	Screen size: 1.3inch Display mode: TFT Display format: 240*RGB*240 View Angle: FULL

BATTERY	
Battery	7.4V, 6500mAh
Work time	More than 18 hours (Typical, Rover, GSM) The static working mode supports continuous data collection for 26 hours
Charge	USB PD 15V/2A 5V/3A (Support fast charging adapter and adaptively and dynamically adjust charging current)

ENVIRONMENT	
Work Temperature	-20°C~+60°C
Storage Temperature	-40°C~+85°C
Shock	Withstand a 1.5m pole drop
Protection	IP68

PHYSICAL	
Materials	Magnesium alloy casing with ABS/PC plastic top cover
Dimensions	Φ143.5 * 90.7mm
Weight	900g

ACCESSORIES	
T20Pro	1 Unit
USB power adapter	1 PCS
Type-C To Type-C	1 PCS
Radio Antenna	1 PCS

CERTIFICATION	
Regulatory Compliance	NGS, CE, FCC

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

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