

T20 is a high-performance GNSS receiver that provides an easy-to-use solution for users. TOKNAV T20 supports the original tilt compensating GNSS solution. With the built-in 5W radio, its transmission distance can spread to 16KM in open area. Multi constellation and frequency tracking always gives a fixed solution for your job. The durable IP68 design makes it possible to work in extreme environments.



Characteristic

Linux intelligent system

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

Multi constellation

With its 1408 channels, T20 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

T20 has internal radio with adjustable power of 1W/5W. And when T20 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

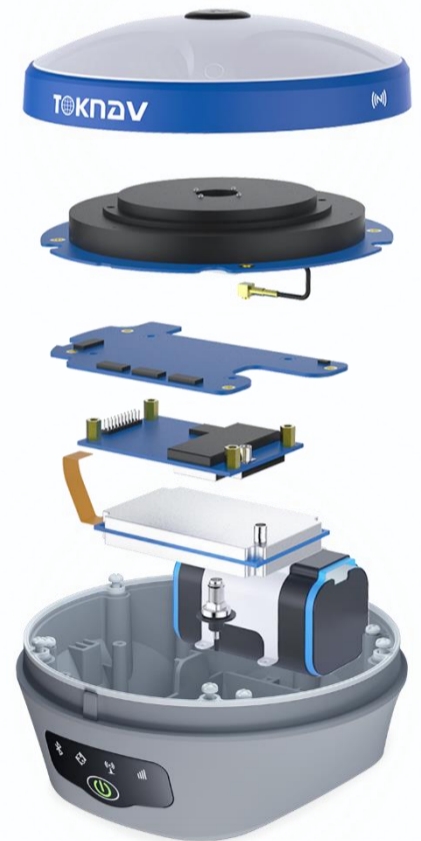
T20 has an internal 4G Modem that operates with more cellular network signals, a fast internet connection is guaranteed.

Long endurance

Built in high-capacity lithium battery ensures continuous working time of more than 20 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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ITEM		SPECIFICATION	REMARKS
HARDWARE SYSTEM		Qualcomm Cortex-A7	
OS		Linux	
GNSS	GPS	L1C/A, L1C, L2P(Y), L2C, L5	
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b, E6	
	QZSS	L1, L2, L5	
	SBAS	L1	
	NavIC (IRNSS)*	L5*	IRNSS support in future
	Channel	1408	
	Data format	NMEA-0183	
	Correction I / O Protocol	RTCM3.X	
	Data update frequency	20Hz(max)	
	Recapture Time	<1s	
	Cold Boot	<40s	
	POSITIONING 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)	
Time Accuracy (RMS)		20ns	
Static Accuracy (RMS)		Horizontal: ±(2.5mm+0.5ppm) Vertical: ±(5mm+0.5ppm)	
Speed Accuracy (RMS)		0.03m/s	
Tilt compensation Accuracy(within 60°)		≤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	
	Data Radio	Frequency: 410~470MHz Protocol: TRIMTALK, TRIMMK3, SOUTH, TRANSEOT RF transmit power: 0.5W/1W/5W Air baud rate: 9600 / 19200bps	
	Storage	32GB Storage	
INDICATOR	Power Indicator	Show power status	
	Satellite Indicator	Show position status	
	Data link Indicator	Show differential signal status	
	Bluetooth Indicator	Show Bluetooth status	
	Network Indicator	Show network signal status	
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 under full power



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	Charge	USB PD 15V/2A 5V/3A	Support fast charging adapter and adaptively and dynamically adjust charging current
ENVIRONMENTAL	Work Temperature	-20℃~+60℃	
	Storage Temperature	-40℃~+85℃	
	Shock	Withstand 1.5M pole drop	
	Protection	IP68	
PHYSICAL	Material	Magnesium alloy main body, ABS/PC top cover	
	Dimension	Φ143.5mm*90.7mm	
	Weight	≤0.90kg	
A FULL SET	T20 Device	1 SET	
	USB power adapter	1 PCS	
	Type-C to Type-C	1 PCS	
	Radio Antenna	1 PCS	

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



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