SPECIFICATIONS

Satellite Signals Tracked Simultaneo	usly
Signal Tracking	1598 channels
	GPS: 1.1.1C.12.12C.12P.15
	GLO: 1.1,12,62,63
	BDS: BDS-2: B1I,B2I,BDS-3: B3I,B3I,B1C,B2a,B2b*
	GAL: E1,E5A,E5B,E6C,AltBOC*
	QZSS: L1.L2C.L5*
	SBAS: L1*
	IRNSS: L5*
	L-Band (Available in 2022 in Asian-Pacific region)
GNSS Features	Positioning output rate: 1Hz~50Hz
	Initialization time: <8s
	Initialization reliability: >99.99%
Positioning Precision	
High-Precision GNSS Positioning	Horizontal: ±2.5mm+0.1ppm Vertical: ±3.5mm+0.4ppm
	SBAS positioning accuracy: typically<50cm RMS
Static GNSS Surveying	Horizontal: ±2.5mm+0.5ppm Vertical: ±5mm+0.5ppm
Real-Time Kinematic Surveying	Horizontal: ±8mm+0.5ppm Vertical: ±15mm+0.5ppm
Network RTK	Horizontal: ±8mm+0.5ppm Vertical: ±15mm+0.5ppm
User Interaction	
Operaing System	Linux
Buttons	One buttons operation
Indicators	Four indicate lights
Web UI	Freely to configure and monitor the receiver by accessing to the web server via Wi-Fi and USB
Voice Guide	iVoice intelligent voice technology provides status and voice guide
Total Guide	Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user define
Secondary Development	Providing secondary development package
Hardware Performance	1 Towards Secondary development package
	4.25 may (Six marker) 0.4.75 may (Height)
Dimension	135mm(Diameter)x84.75mm(Height)
Weight	0.97kg (battery included)
Material	Magnesium aluminum alloy shell
Operating	-40°C~+65°C
Storag	-55°C~+85°C
Humidity	100% Non-condensing
Waterproof/Dustproof	IP68 standard, protected from long time immersion to depth of 1m
	IP68 standard, fully protected against blowing dust
Shock And Vibration	Withstand 2 meters pole drop onto the cement ground naturally
Power Supply	9-28V DC, overvoltage protection
Battery	Internal Li-on,6800mAh,3.7V
Battery Life	Static mode 15h, Rover mode 12h,Base mode 12h
Communications	
I/O Port	5PIN LEMO external power port+RS232, 7PIN external USB(OTG)+Ethernet, Type C port
1,01011	1 radio antenna interface
UHF Wireless Modem	2W radio, receive and transmit, typically 8km with Farlink protocol
	Radio repeater
Frequency Range	
Communication Protocol	410-470MHz
	Farlink, Trimtalk450s, SOUTH, HUACE, Hi-target, Satel
Cellular Mobile Network	Standard function.
Double Medule Plusteeth	WCDMA/CDMA2000/TDD-LTE/FDD-LTE 4G network modem, downward compatible with 3G GPRS/EDGE
Double Module Bluetooth	BLEBluetooth 4.0 standard, support for android, ios cellphone connection
	Bluetooth 2.1+EDR standard
NFC Communication	Realizing close range (shorter than 10cm) automatic pair between receiver and controller
	(controller equipped NFC wireless communication module needed)
Data Collector Internet	Support to obtain the differential infor from CORS station via internet of the controller itself, no need to insert
	SIM card and network antenna for GNSS receiver. With better compatibility, faster access speed.
WIFI	
Standard	802.11 b/g standard
WIFI Hotspot	The WIFI hotspot allows any mobile terminal to connect and access to the internal webserver for the control
	and moditor receiver
WIFI Data Link	To work as the datalink that receiver is able to broadcast and receive differential data via WIFI
Data Storage/ Transmission	To work as the datallik that receive is able to broadcast allu receive unierential data vid wiri
Data Storage	8GB SSD internal storage, Support 128Gb external OTG storage
Data Storage	
	Support external USB storage and automatical cycle storage,RINEX direct
Data Transactivity	Changeable record interval, up to 50Hz raw data collection
Data Transmission	USB data transmission, supporting FTP/HTTP data download
Data Format	Differential data format: RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
	GPS output data format: NMEA 0183, PJK plane coordinates, Binary code
	Network model support: VRS, FKP, MAC, fully support NTRIP protocol
Inertial Sensing System	
Tilt Angle	Up to 60 degrees
Accuracy	Down to 2cm
Thermometer	Built-in thermomter sensors, adopting intelligent temperature control technology which can mornitor and
	adjust the temperature of receiver in real time



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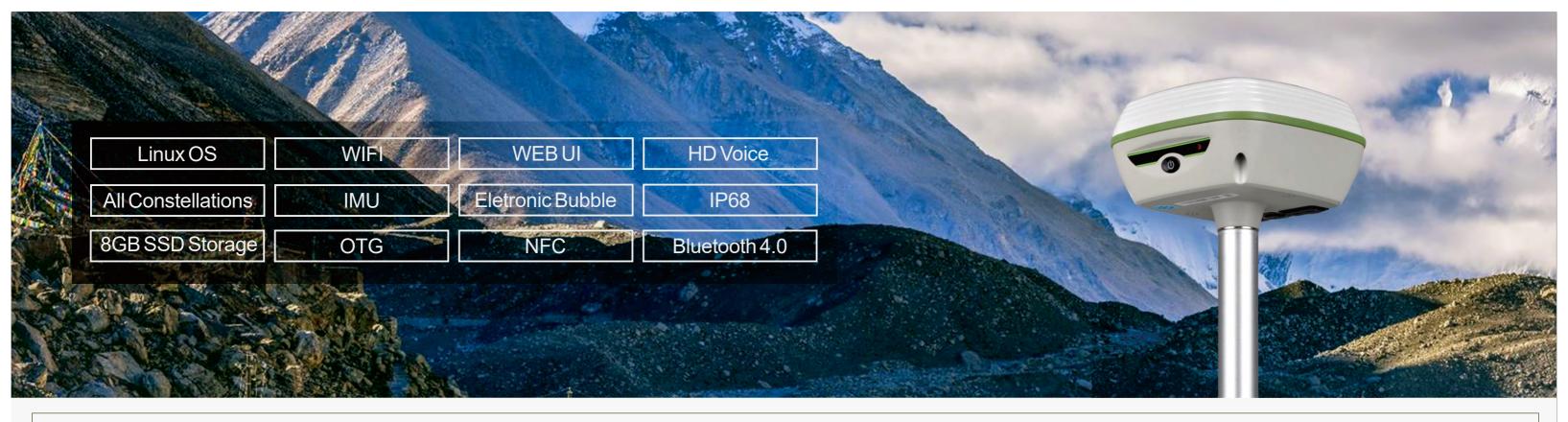
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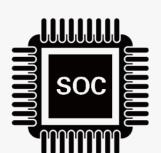


T7Plus

— Brand new diminutive RTK receiver —







Outstanding GNSS Performance >>>

Equipped with new generation the most powerful GNSS RTK engine with 1598 channels, T7 can track signal from all consatellations including B3 signal of BDS satellites. Its high-performance GNSS antenna is upgraded with strong anti-interference ability and sensitive satellite signal capture ability, to track more satellite in harsh environments. system is much higher, it can be adapt to the job of longer uninterrupted power.



"SOC" means "System-on-Chip", this new design integrates several individual hardware modules into one microchip. The receiver can be much lighter and smaller, system runs more stable and faster, bluetooth connection speed is faster. The "High-Low Frequency Integration" antenna can effectively restrain the interruptive signal.





Innovative Design ▶▶▶

Single button boot design, one button evokes all RTK operations.

The body screen adopts a translucent high-strength panel, which has a stronger visual sense of technology. Plus four indicator lights, common information is clear at a glance.Double speaker design, three-dimensional sound broadcast, remove noise barriers, and receive clearer sound.

Long Range Radio Link ▶▶▶

Built-in transceiver integrated radio, working frequency 410-470MHz. TrimTalk450S,TrimMark3, SOUTH, CHC, SATEL, HI-TARGET are all compatible. Equipped with Far-Link "Simultaneous" radio module, based on Farlink protocol, it can increase the sensitivity and efficiency of radio signal, achieve the typical working range as 8KM operation, and meet the needs of customers for small and medium-scale.





Barrier-Free Measurement >>>

Built-in 6800mAh high-capacity battery, the battery life is more than 12 hours, one charge, meets all-day work. Equipped with fast charging charger, which can be fully charged within 5 hours. The battery core can be recharged with long life, and performance is more secure and reliable.

IMU Survey ▶▶▶

Built-in IMU compensator, correct the coordinates according to the tilt direction and angle of the centering rod automatically within 60°, assist you quickly and accurately survey or stake out points without leveling the pole, error less than 3cm within 45° inclination, improve working efficiency by 20%.

