



# T5Lite GNSS Receiver

T5Lite is a mini 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 lightweight, fully functional and portable geodesic GNSS receiver.



## Linux intelligent system

Qualcomm MDM9628 Cortex-A7 + Linux, the intelligent system platform, brings efficient computing and unlimited expansion of product functions to users.



## Multi constellation

With its 1408 channels, T5Lite 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

T5Lite has the IMU technology. Fast initialization and up to 60° inclination.



## 4G Modem

T5Lite has an internal 4G modem that operates with more cellular network signals. A fast internet connection is guaranteed.



## Combined antenna

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



## Long endurance

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



# T5Lite GNSS Receiver

## Characteristic



Qualcomm MDM9628 Cortex-A7 + Linux intelligent system



BDS, GPS, GLONASS, Galileo, QZSS, SBAS and IRNSS



Centimeter level positioning



Support tilt measurement, and meet the positioning accuracy of less than 2cm within the tilt range of 60°



Support 4G, Bluetooth and WiFi, and work more flexibly



Built in high-capacity lithium battery, ultra long life



Industrial design, solid magnesium alloy shell, in line with IP65 design requirements, safe and reliable



# PCR100 Data Collector

## PCR100 Data Collector

The PCR100 Controller is a rugged multifunctional data controller with design of 5 inch sunlight readable HD touch screen and an alphanumeric keypad. Equipped with powerful Octa-core processor and Android operating system. With professional IP68 rating, it is robust and reliable for outdoor harsh environment. The large capacity lithium battery guarantees more than 10 hours of field working for a whole day of multiple surveying tasks.

## Key Features

- Five inch sunlight readable HD touch screen;
- Octa-core 2.0GHz CPU;
- Android 8.1 operating system;
- 4GB RAM + 64GB ROM;
- 5MP front camera and 12MP rear camera;
- IP67 certified grade, water/shock/dust proof;
- 7000mAh battery;
- Wi-Fi, Bluetooth, NFC and 4G;
- USB Type-C.



ITEM		SPECIFICATION	REMARKS
HARDWARE SYSTEM		Qualcomm MDM9628 Cortex-A7	
OS		Linux	
CHANNEL		1408 channels	
GNSS	GPS	L1 C/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
	Data format	NMEA-0183	
	Correction I / O Protocol	RTCM 2.X, RTCM3.X	
	Data update frequency	5Hz	
	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: $\pm(8\text{mm}+1\text{ppm})$ ; Vertical: $\pm(15\text{mm}+1\text{ppm})$	
	Time Accuracy(RMS)	20ns	
	Static Accuracy(RMS)	Horizontal: $\pm(2.5\text{mm}+0.5\text{ppm})$ ; Vertical: $\pm(5\text{mm}+0.5\text{ppm})$	
	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/B3/B5/B8 LTE TDD: B38/B39/B40/B41 GSM: 900/1800MHz	
	Storage	32GB, User Storage Space 24GB	
INDICATOR	Power Indicator	Show power status	
	Satellite Indicator	Show position status	
	Data link Indicator	Show differential signal status	
	Bluetooth Indicator	Show bluetooth 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+1.1/2.0 9V/2A USB PD 12V/1.25A 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 1.5M pole drop	
	Protection	IP65	
PHYSICAL	Material	Magnesium alloy main body, ABS/PC top cover	
	Dimension	100.5mm*100.5mm*69mm	
	Weight	$\leq 0.59\text{kg}$	
A FULL SET	T5Lite Device	1 SET	
	USB power adapter	1 PCS	
	USB A To Type-C	1 PCS	

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