

Specifications

MEASUREMENTS	GPS	L1, L2, L5
	GLONASS	L1, L2
	BDS	B1, B2, B3
	GALIEO	E1, E5a, E5b
	QZSS	L1, L2, L5
	SBAS	L1
	Data format	NMEA-0183
	Differential format	RTCM 2.X, RTCM3.X
	Positioning rates	MAX 20Hz
	Re-acquisition time	<1s
POSITIONING	Cold start	<40s
	Autonomous	Horizontal: 1.5m Vertical: 3.0m
	DGPS	Horizontal: 0.4m Vertical: 0.8m
	Static	Horizontal: 2.5mm + 0.1 ppm
		Vertical: 5mm + 0.1 ppm
	Speed	0.03m/s
	RTK	Horizontal: 8mm + 1 ppm
		Vertical: 15mm + 0.1 ppm
	Time	20ns
	DATA STORAGE	Storage
Differential		RTCM2.3, RTCM3.X, RTCM3.2, CMR, CMR+
Data security		Multi channel to store and backup RTK measurement data
Bluetooth		V4.2 dual mode (BT/BLE)
COMMUNICATION	E-bubble	Support
	IMU	Up to 60°
	GSM	LTE-TDD/FDD/TD-SCDMA/UMTS/EVDO/CDMA1x/GSM
	WIFI	802.11 b/g/n
		External radio: 5W/35W Switchable
	UHF	Internal radio: 0.5W/1W Switchable
		Frequency: 410-470MHz
Protocol: TrimTalk, TrimMark3, SOUTH, PCC-EOT		
BATTERY	Capacity	7.4V, 9750mAh
	Battery life	Typically >15h
	Operating temp	-20°C → +70°C
ENVIRONMENTAL	Storage temp	-40°C → +85°C
	Humidity	100%
	Shockproof	Survive a 2m pole drop onto concrete
	Ingress protection	IP67
	PHYSICAL	Material
Dimension		Ø15.6"×10.2cm
Interface		4 LED indicators, 2 buttons, i-voice
L8 GNSS receiver		1X
ACCESSORIES	Power adapter	1X
	7pin cable	1X
	Radio antenna	1X

This information is for reference only, and the product parameters will be modified without notice due to product upgrades, please understand!



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TURNING THE ORDINARY INTO THE EXTRAORDINARY

Legend L8

866 CHANNELS GNSS RECEIVER



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Features

LINUX & WEBUI

Linux+I.MX6UL Cortex-A7 intelligent system platform brings users efficient computing and unlimited expansion of product functions. And with embedded WEBUI, users can configure and operate the receiver more conveniently.

FULL GNSS CONSTELLATION

The receiver integrates a high-precision positioning module with completely independent core intellectual property rights, also supports BDS, GPS, GLONASS, Galileo and QZSS and other satellite navigation systems.

GSM MODULE

Full 4G Netcom solution based on Linux platform, fully supporting 2/3/4G network, with better compatibility, stronger signal and more stable connection.

4 IN 1 ANTENNA

The new four-in-one GNSS, WiFi, Bluetooth, 4G integrated antenna makes wireless signal better.



IMU

Immediately start with calibration-free tilt compensation technology, which assist you quickly and accurately survey or stake out points without leveling the pole and the is less than 2cm within 60° inclination, boost working efficiency by 20%.

HIGH-CAPACITY BATTERY

Built-in high-capacity smart lithium battery to ensure continuous working time exceeds 15 hours in typical power consumption.

IP67

Industrial-grade design, sturdy aluminum alloy housing, high shockproof performance, waterproof and dustproof reach IP67 level.



Applications

Power Systems



Forestry System



Agricultural System



Building System



Water System



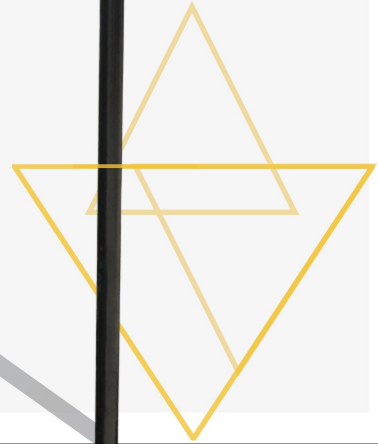
Traffic System



Land Resources



Engineering Survey





Surpro field software

Surpro is a field survey software that integrates general survey, point, line stakeout and road stakeout based on Android platform created by α-GEO. It has various parameter configurations, simple and friendly interface, comprehensive functions, multiple data format compatibility and report output, bring you a more concise, professional and efficient newer measurement experience!

