

FOIF A90 GPS RTK GNSS

[FoyfGNSS](#) With a high-tech, fully integrated design, the convenient size A90 is one of the most flexible options for any measurement task. It has a built-in Linux 3.2.0 operating system and is preloaded with multiple smart applications such as tilt surveying, electronic bubble calibration, NFC, and voice DIY.

The A90 Plus RTK GNSS system provides surveyors with industry-leading GNSS operations



Product Features

1. High-performance 4in1 antenna: GNSS antenna/ The Bluetooth/Wi-Fi/4G All-Netcom module is highly integrated.

2. Internal capsule structure design: RF and microwaves form independent loops; Completely resolves internal signal crosstalk; Recipients are always Get optimal data accuracy and Maintains the strongest interference resistance.

3. Motherboards up to 800 channels: Complete galaxy pursuit, Hokuto No. 3 satellite support, Supports the release of satellite chain durability and satellite station differential technology

4. 2nd Generation LinuxCortex Intelligent System Platform brings to users Efficient computing and unlimited expansion of product features.



5. Built-in transceiver station: Adjustable from 0.5 to 2W, Supports a variety of transmission protocols, The operating distance is up to 5 km.

6. Removable double lithium battery design, Battery capacity is up to 6800mAh, And the battery can be replaced When the host is powered on.

7. Large memory: Built-in 8G, expandable up to 32G

8. Mie Data Insurance: RTK collects data and Save the handbook in sync with the host. Upload the backup to a cloud server. There is no risk of accidental loss of measurement data.

FOIF A90 GPS RTK System Datasheet	
GNSS Signal Tracking	555 channels
	GPS L1, C/A, L2E, L2C, L5
	Gronus L1, C/A, L1P, L2, C/A, L2P, L5;
	BDS B1 B2 B3
	SBAS (WAAS, MSAS, ENGOS) L1, C/A, L5;
	Gloves-AB L1 BOC(CBOC)-E5A/B, E5AltBOC
	RTCM2.3, RTCM3.X, RTCM3.2, CMR, CMR
Reception accuracy	
Static post-processing accuracy	H: $\pm 2.5\text{mm}1 \times 10^{-4}\text{D}$; V: $\pm 5.0\text{mm}1 \times 10^{-4}\text{D}$
RTK Position Accuracy	Height: $\pm 8\text{mm}1 \times 10^{-4}\text{D}$; V: $\pm 15\text{mm}1 \times 10^{-4}\text{D}$
Encoding different positioning accuracy	0.45m
One-point positioning	1.5m
Data Link	
Transmit/Receive radio	Internal wireless RX/TX 5KM-10KM
External radio	FOIF external radio Rx&Tx (FDL-5, 2/35W selectable) 50KM Work Range

WIFI	WIFI Connecting Controller
	WEB UI Wireless Management
	GNSS Upgrade/Download/Settings/Base & Rover composition
3G/4G	GSM/GPRS/EDGE (Class 10)
	Quad Band
	-GSM/GPRS: 850/900/1800/1900MHz band
	CDMA (optional)
others	
battery	7.2V 3400mAh 2 pcs standard;
	Can be displayed on the volume
	Compatible with control batteries.
screen	4 LED lights;
	1 Button key;
	voice
NFC Survey	Internal electric bubble.
	Capacity of the 2nd General NFC Survey
memory	4G
Interface	RS232*2 / Bluetooth*1 / USB*1 SIM*1 /
	TF*1 / Internet*1
Dust and water resistant	IP68
temperature	Operating model: -40°C~80°C
	Store model: -55°C~85°C