

Integrative Vehicle-Mounted Passive Localization System



- Track any mobile phone position in 2G/3G/4G networks
- Rapid positioning with high precision and wide coverage area
- Positioning at both internet access status or calling status

Synway's vehicle-mounted passive localization system adopts innovative software radio technology, and could implement high-accuracy positioning across multiple 2G/3G/4G networks in a single system. With this system, all cellular terminals and general mobile phones covered by different carrier networks could be localized efficiently and effectively.

Main Functions

1. Switch On/Off detection: SMS notification while targeted phones are turning on/off;
2. Localization: Support positioning for network cards and all cellular phones in 2G/3G/4G networks;
3. Direction search: while target acquired, its direction could be defined, based on clock orientation
4. Authorization management: hierarchical management by different authority levels of user;
5. Black Box: log the activities of system users and encrypt the recorded information;

Key Features and Benefits

- rapid positioning (up to 24 cells can be monitored simultaneously) with high precision;
- Portable one-man equipment can be used independently or in combination with mounted vehicle;
- Support localization in both continuous phone Internet-access status and VOLTE call status;
- Support positioning of GSM and CDMA mobile phones in calling status;
- All-in-one to support all frequency bands, and could be customized to cover different cellular networks;

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Technical Specifications

Mainframe system	
Network	Any 2G/3G/4G for different carriers
Protocols	GSM/CDMA/TD-SCDMA/WCDMA/ TDD-LTE/FDD-LTE
Accuracy of Direction	RMS≤3o
Precision	1 meter
Acquisition	GSM/LTE: Number CDMA/WCDMA/TD-SCDMA Number and IMSI
Work Range	(Open space) GSM≥1000M; CDMA≥500M ; WCDMA≥500M; TD-SCDMA≥500M; LTE≥500M
Coverage	Simultaneous cover: GSM:24 cells ; CDMA:9 cells ;WCDMA:12 cells; TD- SCDMA:9 cells ; LTE:12 cells
Operational mode	Passive monitoring & no radiation
Report manner	Visual/Audio
Trigger mode	Secure SMS & Calling
Power supply	Internal battery: 2 Hrs supply time; Engine Silicon Power: 12V; Market Power: 220V
Volume	Mainframe: 19 inch , 7U(440mm*400mm*310mm) Antenna array: circular; Diameter: 720mm; High: 260mm

One-man equipment	
Network	Any 2G/3G/4G for different carriers
Protocols	GSM/CDMA/TD-SCDMA/WCDMA/ TDD-LTE/FDD-LTE
Precision	1 meter
Acquisition	GSM/LTE: Targeted Number CDMA/WCDMA/TD-SCDMA: Targeted Number and IMSI
Work Range	(Open space) GSM≥1000M; CDMA≥500M ; WCDMA≥300M
Coverage	Simultaneous cover: GSM:24 cells ;CDMA:9 cells ;WCDMA:12 cells; TD- SCDMA:9 cells; LTE:6 cells
Operational mode	Passive monitoring & no radiation
Report manner	Visual/Audio
Trigger mode	Secure SMS & Calling
Power supply	Internal battery or customizable
Volume	280*210*130mm; battery; 130*80*50 mm

About Synway

As a major manufacturer and supplier of communication products and solutions, Synway specializes in providing superior Multimedia Gateway, Integrated Multimedia Switch, Telephony Hardware in use for Telecom communications. www.synway.net