



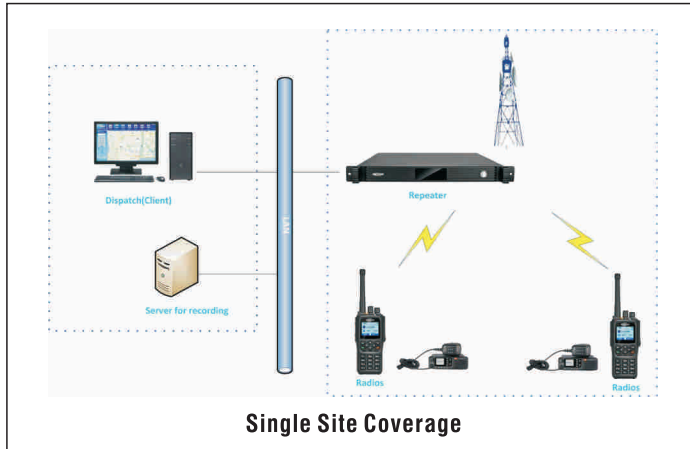
# DS5500

## Multi-Site IP Connection System

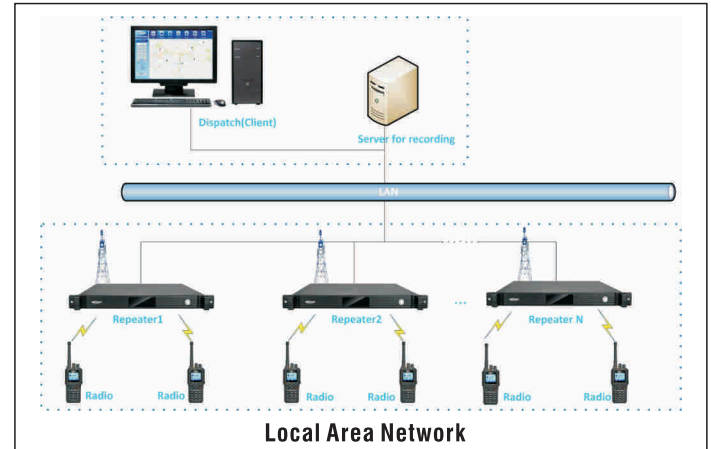
It links multiple repeaters over a standard IP network to enhance your coverage with no service or access fees. You get uninterrupted voice and data communications without having to change channels no matter where you're located, even you are in different cities or countries.



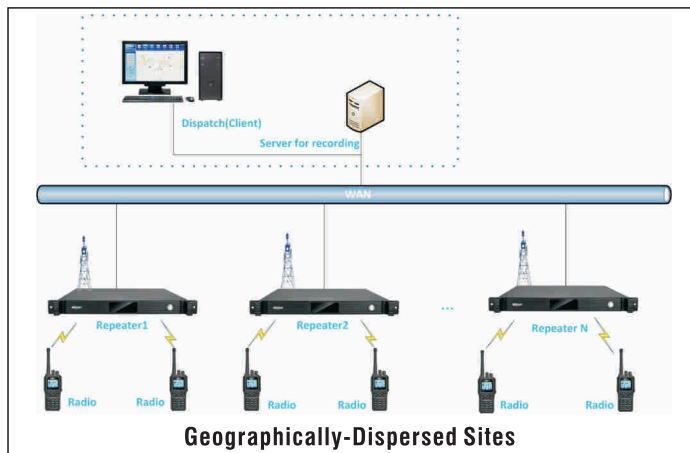
## Network Topology & Applications



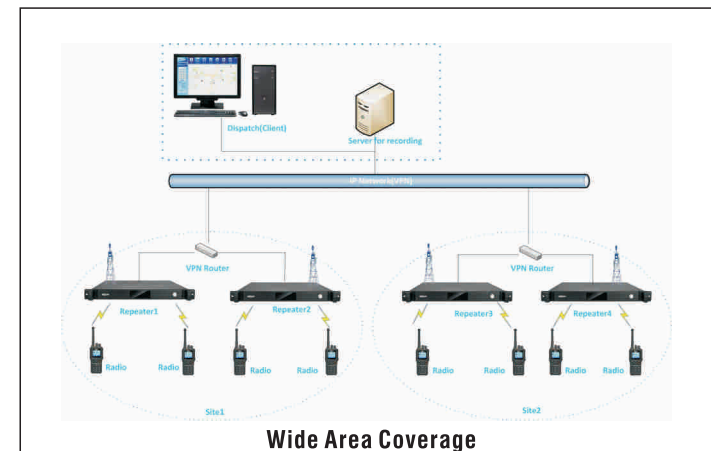
Single Site is a small network consisting of a Repeater and a Dispatcher(Optional) which are connected with IP network. If you need to extend coverage in your building, or you want to see the real position of the security in the campus, the single site repeater system with dispatch(optional) enhances the coverage of your radio system and provides Location Function, Various Voice Service, Text Message, Emergency Alarm, Location Function, Record and Playback, PSTN Telephone, Radio check Kill Stun and Active.



A local area network (LAN) usually refers to a private network, such as a company's internal network. Whether you are a high-rise hotel or a shopping center with multiple buildings, IP Site Connection enhances coverage throughout your property by networking your system through an IP network. With repeaters strategically located throughout a district or block, your people can share voice and data quickly and safely.



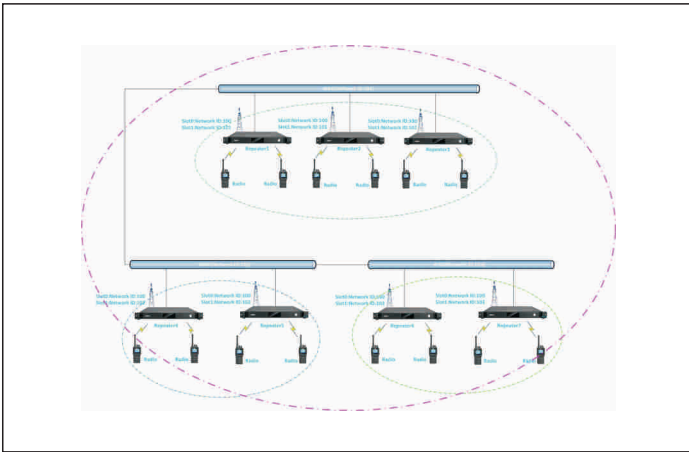
IP Site Connection extends the coverage of your radio systems virtually anywhere in the world. If you're a manufacturing plant headquartered in Europe, you can communicate with all your sales, workers and shippers in real time (up to 64 warehouses) no matter how scattered the sites. From one city to another city, you can seamlessly link people in different locations to share information, monitor orders, check deliveries, track assets with GPS or send text message updates, resulting in improved productivity and minimized downtime for your business.



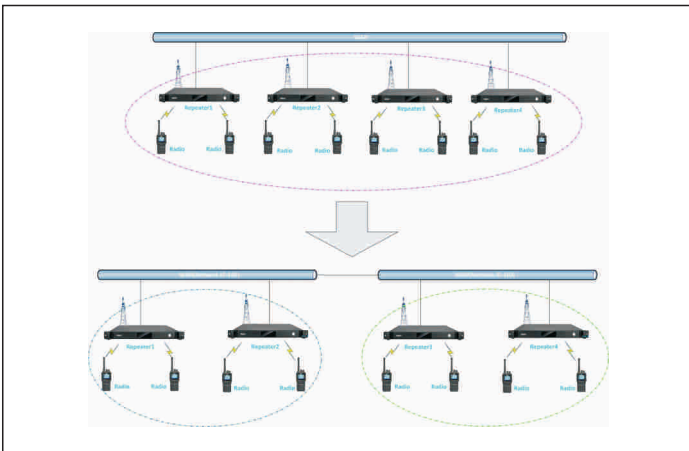
You need to keep connected with taxi drivers spread across the city, you want to keep connected with workers fixing High-voltage Transmission Lines in the other side of this city, you have to connect with workers repairing natural gas pipelines outdoors. IP Site Connection System enables the wide-area communication you need by linking adjoining single sites through an IP network to create continuous, unbroken coverage. So no matter where the job takes them, you and your work crews stay connected. Use text messaging to send directions to the next passenger location without distracting them from the road or GPS location tracking to dispatch the nearest repair crew for faster response times. Plus, the automatic site-roaming feature eliminates the need for employees to physically change channels as they move throughout the coverage area, helping them to stay focused on the job at hand.

## System Features

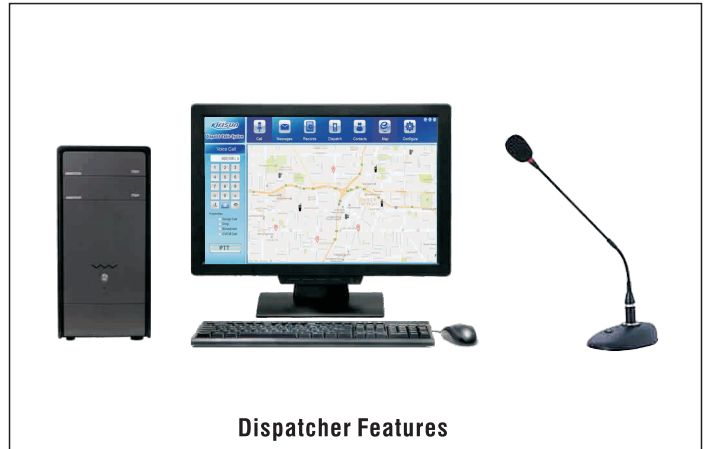
- Up to 64 repeaters can be connected.
- Dispatching system as an option is available which supports private call, group call, all call, voice recording, message and AVL.
- Remote monitor & Diagnosis & control
- Remote configuration & firmware upgrade
- End to End Encryption & Network Encryption (AES/DES)
- Provides easy migration from analog to digital with analog, digital and mixed modes operation.
- Roaming without changing channels from site to site
- Share voice and data anywhere, from voice call to GPS tracking
- Communication between geographically dispersed locations



- Network Slot ID, Repeaters can choose the service with the same Network Slot ID which is defined in every Repeater network settings.



- Repeaters in the same network can be divided to different groups



**Dispatcher Features**

- Radio Online/Offline Status
- Various Voice Service
- Radio check, Kill, Stun and Active
- Text Message
- Emergency Alarm/Call
- Location Functions (Including Geofencing, GPS Patrol)
- Call Logs and Message Logs
- Voice Record and Playback
- PSTN Telephone Access



**Repeater Features**

- Built-in AC Power Supply
- Accessory Expansion
- Tier3 Upgradable
- Supports Multiple CTC/DCS
- Smart Digital-Analog auto detection
- Built-in fan for heat dissipation and longer operation stability
- Good interference isolation benefit from independent design of Rx/Tx module

## System Parameters

System Performance	Parameters
Frequency	136-174MHz,350-400MHz,400-470MHz,450-520MHz
Normal Operating Voltage	AC: 100-240V(DC:13.6V)
Digital Vocoder Type	AMBE++
Maximum Site Number	64
Channel Spacing	12.5kHz/20kHz/25kHz
Operating Temperature	-30°C~60°C

Receiver Specifications	
Frequency Stability	1.5ppm
Analog Sensitivity	0.30 $\mu$ V (12dB SINAD)
Digital Sensitivity	5%BER:0.3 $\mu$ V
Intermodulation	TIA603C:75dB ETSI:70dB
Adjacent Channel Selectivity	TIA-603:65dB@12.5 kHz/75dB@20/25 kHz ETSI: 65dB@12.5 kHz/75dB@20/25 kHz
Spurious Response Rejection	TIA603C:75dB ETSI:70dB
Conducted Spurious Emission	-57dBm@<1GHz,47dBm@>1GHz
Rated Audio Distortion	$\leq$ 3% (Typical)
Hum and Noise	-40dB@12.5kHz 45dB@20kHz/25kHz

Transmitter Specifications	
Frequency Stability	1.5ppm
Power Output	25/40W(UHF) 25/45(VHF)
FM Hum and Noise	-40dB@12.5kHz 45dB@20kHz/25kHz
Conducted/Radiated Emission	-36dBm@<1GHz,-30dBm@>1GHz
Adjacent Channel Power	-60dB@12.5KHz -70dB@20KHz/25kHz
FM Modulation Mode	12.5KHz:11K $\Phi$ F3E 20kHz $\Phi$ FK3E 25KHz:16K $\Phi$ F3E
Modulation Limiting	2.5kHz@12.5kHz 4kHz@20kHz 5kHz@25kHz
Audio Response	+1dB~-3dB
Audio Distortion	$\leq$ 3%



**Shenzhen Kirisun Communications Co.,Ltd.**

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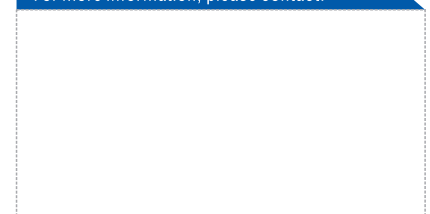
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