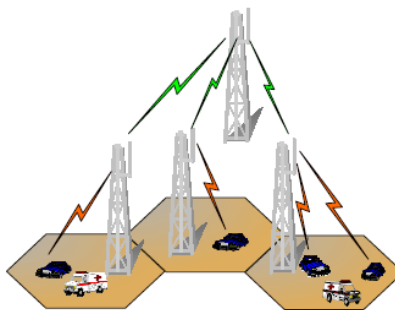




**PRODUCT DATA SHEET**  
**SIMULCAST SYSTEM**  
**SR-100 (SIMULCAST REPEATER)**  
**SL-100 (SIMULCAST LINK)**  
**SC-2000 (SIMULCAST CONTROLLER)**

**Simulcast System – Wide Area Communication Solution for Limited Frequency Channels.**

The Simulcast System is a wide area communication solution. The Repeaters at different sites utilize the same frequency, allowing the radio users to move from one site to another site without the need to change the frequency channel. The Simulcast System allow users to travel along wide area easily.



The simulcast system is a system which combines the use of Simulcast Repeaters and Simulcast Link. The Simulcast Repeater repeats all the signal from the subscriber unit in its own location, while the link will forward the signal from that Repeater to other Repeater/s at other site/s. This system provides a simple operation for those needing a wide area communication.

**SIMULCAST REPEATER SR-100**

This repeater is especially designed for wide area communication application. It allows the radio user in the field to move from one site to another site without the need to change channel. The Repeater has a front panel indicator to indicate whether the Repeater is working properly or not. The Simulcast Repeater has a GPS System. This configuration ensures that the simulcast system provides the users with a very simple mode of operation; that is, by using one channel, users can move around multiple cell sites and the transmissions are still sent through to all of the transmitter sites. This way, all of the mobile users are able to communicate with other users and the dispatcher regardless of their location.



**SIMULCAST LINK SL-200**

The link broadcasts the received signal to other simulcast Repeater/s at different sites. The Simulcast Link comes with Repeater for Link, Controller, and GPS System inside. This configuration will manage all of the signal receiving and broadcasting from Simulcast Repeater, ensuring the proper operation of simulcast system within the network. The Simulcast Link has a front panel indicator to indicate whether the link is working properly or not.



GPS System Equipments

**SIMULCAST REPEATER & SIMULCAST LINK SPECIFICATION**

Power Output	: 25 - 50 W	Frequency Stability	: 1.5 ppm for -10 to 60 C
Transmit Spurious	: > -90 dBc	Rx Sensitivity	: <-117 dBm for 12 dB SINAD
Selectivity	: > 85 Db	Spurious Response	: >80 dB
Intermodulation	: >80 dB		



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## **SIMULCAST CONTROLLER – SC2000**

The controller is designed to allow controlling and monitoring the Repeater System and the subscribers unit in the field

Controller allows operator to manage the system in the field. The controller's features are consisted of :

- **Operator Login/Logout Management** - recording each login/logout transaction.
- **Base Station Information Management** - Record all Repeater's data that is scattered in the field. Easy to manage and to maintain Repeaters in the field.
- **User Information Management** - record usage time and ID of each user.
- **Base Station Function Configuration** - control each Repeater station remotely such as enable/disable and request operation information from the Base Station

Monitoring and controlling the subscriber units in the field are important to minimize the unmonitored use of the system. Therefore, checking and remote controlling of the lost device is important to monitor the communications in the network or other illegal use for the security network.



The controller provides following capabilities :

- **Caller ID** : Every time the PTT button is pressed, a unique ID is sent. Allowing dispatcher at the controller monitoring radio activity.
- **Call Alert** : Radio user can leave a page to a person. The receiving radio will emit an alert tone until the receiving party responds to the page.
- **Radio Check** : Allowing dispatcher to check if the targeted radio operating and within coverage area.
- **Remote Enable/Disable** : Radio can be disabled remotely to prevent unauthorized monitoring when a radio unit is lost or stolen.