



## Overview

Simultaneous multiple networks can be set up with the 900 Mhz / 2.4 Ghz transceivers. Point Repeaters, and TZRs can be configured for separate networks.

Some devices use external switches to set up the network settings. Others require a setup program to be run. In these devices the network settings are not visible nor can a computer read the parameters. You may want to label the device with the programmed settings for future reference. This application note will describe the process of configuring network devices that do not have external switches.

The utilities mentioned below are available from the Point Six web site ([www.pointsix.com/support](http://www.pointsix.com/support)) and are called the "Cfg 900 Network Utilities".

Note: Point Repeaters, and TZRs take 30 seconds before the devices are ready to communicate after a power up.

## Point Repeaters

### Needed Tools and Hardware

TZR  
TZR900 Utility  
900 Remote Setup Utility

## Overview

The Point Repeater is configured remotely through the 900 Mhz network. Install the utilities. You will need to attach a TZR to your computer. Configure the TZR and then configure the Point Repeater. You will need to know what Network ID and Hopp table you want to use.

## Procedure

- 1) Connect the TZR to the computer's serial port.
- 2) Use the TZR900 Utility to configure the TZR. Set the Com port, Network ID and the Hopp Table. For programming the Point Repeater, the baud rate for the TZR must be set to 9600 or 19200. Click the "Setup" button. Follow the prompts provided by the software. Exit the program when finished.
- 3) Power down the Point Repeater. The Point Repeater must be powered down for at least 30 seconds before the unit can be configured.
- 4) Start the 900 Remote Setup Utility and select the baud rate and COM port where the TZR is attached. A new screen will appear.
- 5) Click the "Init Host" button. With the field to the right of the "Init Host" button, you should see three "OK" messages flash when the utility has found the TZR and then the "Init Host" button will return to the deselected state.
- 6) Set the Network Address and the Hopp Table fields. If the Point Repeater uses the Location ID function, then click the LOC check box and enter the Locator ID.
- 7) Click the Auto Config check box and then power up the Point Repeater. When the program is configuring the Point Repeater, the program should show activity messages in the field to the right of the "Init Host" button. The program will display the serial number of the Point Repeater when it is finished configuring. You can configure multiple Point Repeaters by repeating steps 6 and 7. Exit the program when finished.
- 8) If you plan to use the TZR with this Point Repeater, you will need to power down the TZR for 30 seconds and then power it up. If you need a different baud rate than 9600 or 19200, then use the TZR900 Utility to set the baud rate.
- 9) You can confirm that the Point Repeater is configured properly by periodically pressing the service button on a Point sensor and looking at the output using a TZR or other 900 Mhz device (like a Point Server). If using a TZR, you can use a communication program to view the output.

## ***TZR to TZR***

### **Needed Tools and Hardware**

TZRs  
TZR900 Utility

### **Overview**

Two TZRs can be configured to be a “serial wireless cable”. Each TZR will have to be configured separately with the same Network ID and Hopp Table.

Note: Do not use the HA6 Setup Utility to configure TZRs that will not be used with HA6s.

### **Procedure**

- 1) Attach the first TZR to the serial port
- 2) Start the TZR900 Utility and enter the Network ID, Hopp Table and the baud rate. Follow the prompts by the software.
- 3) Repeat for the second TZR using the same Network ID and Hopp Table. The baud rate can be different than the first.

## ***Point Six Standard Network Settings***

Some devices use switches to set the network parameters. The following is list of the switch settings and network parameters.

<b>Channel</b>	<b>Network ID</b>	<b>Hopp Table</b>
1	399	1
2	398	2
3	397	3
4	395	4
5	555	5
6	901	6
7*	505	5

\*Channel 7 is the default setting for all Point Six radio network devices. OEM versions will be set to other defaults.

### ***General Notes***

- 1) To use the TZR with OneSix DDE/OPC Servers and Point View, the baud rate of the TZR must be set to 19200 baud.