

TSAN 038

HiPR-900™ TCP/IP Repeater (Bridge Mode)

Dataradio Technical Support

For additional assistance: www.dataradio.com

Within the U.S.A.	1-800-992-7774	International	1-507-833-8819
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Product: Dataradio HiPR-900™

Application: Provide the information necessary to configure an Ethernet network using back-to-back HiPR-900's as a TCP/IP bridge repeater. This application uses the HiPR-900 bridge mode. The SCADA host and RTUs are on the same IP sub network.

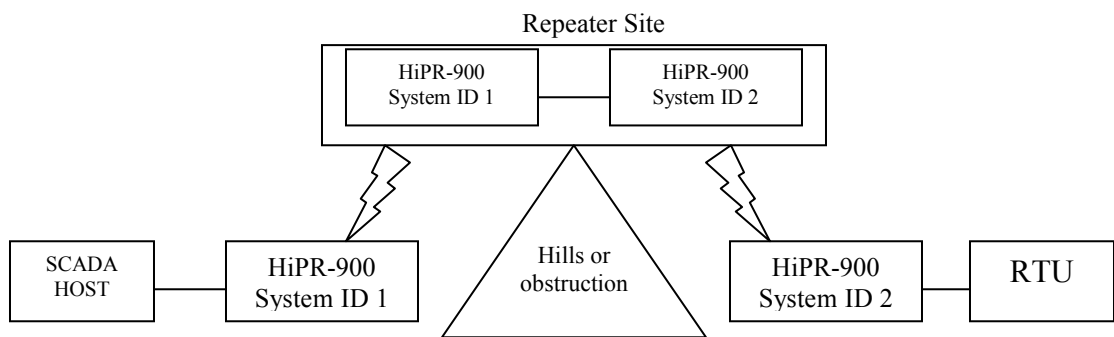


Fig. 1

Figure 2 shows a sample system configuration.

HiPR-900 Back to back TCP/IP Repeater

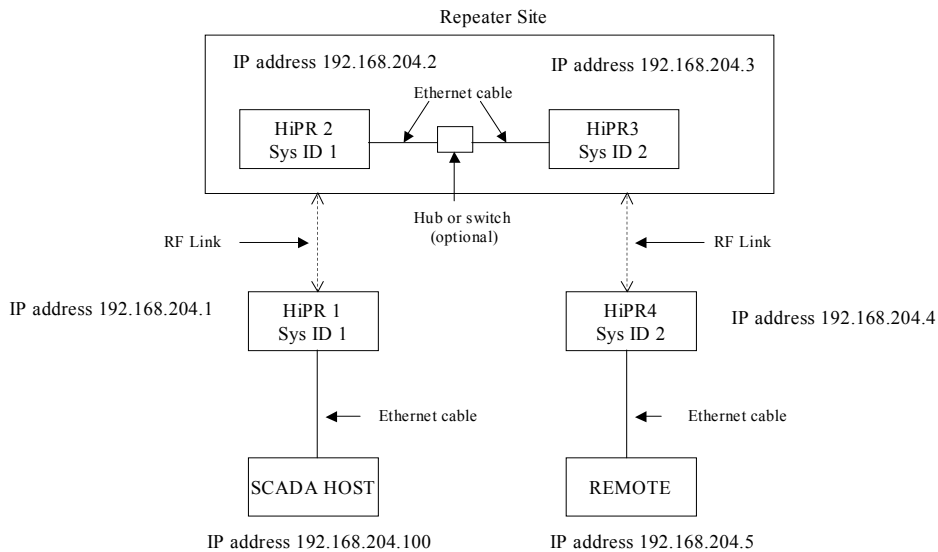


Figure 2

Set-up: The SCADA host and all RTUs must be on the same IP subnet.

The HiPR-900 IP addresses may be on the same IP subnet as the SCADA host and RTUs but this is not required. IP services to the HiPR-900s (i.e. Web pages, Terminal Server, Telnet, FTP) are available if the SCADA host, RTUs and HiPR-900s are on the same IP sub network.

An Ethernet switch, an Ethernet hub or an Ethernet crossover cable, may connect the HiPR-900s at the repeater site.

One HiPR-900 (not at the repeater site) must be designated as a Synch Master unit for each System ID. Refer to the HiPR-900 Quick Start Guide for information on Synch Master and System ID programming.

All Ethernet connections must use Cat 5 or higher cable.

Repeater site:

A “straight through” Ethernet cable may be used if the cable is to be connected directly between the “LAN” connectors on the radios. A straight through cable may be used if the HiPR-900 is powered by an external power supply. A straight through cable does not allow local Ethernet access to the radios.

Switch or hub: A “straight through” Ethernet cable is connected from the RJ-45 connector marked as “LAN” on one radio to a RJ-45 port connector on the switch or hub. A separate “straight through” cable is used to connect from a RJ-45 port connector on the switch or hub to the RJ-45 connector marked “LAN” on the other radio. A switch or hub allows local Ethernet access for testing and maintenance.

Note: Dataradio offers this type of repeater as a complete assembly. Contact your Wireless Data Adviser for details.