

AN350 VoIP LINKED REPEATER SYSTEM

FEATURES AT A GLANCE

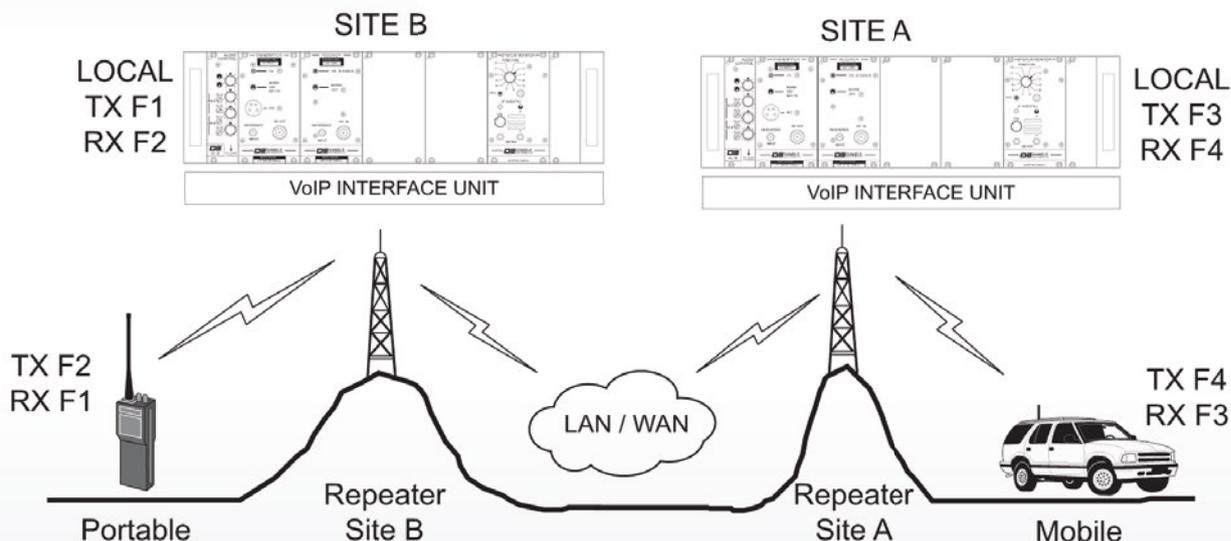
- Large coverage area with local or wide area network available at repeater sites
- PTT/COR and audio signal transmission over LAN/WAN

REQUIREMENT

The distance has become too long or the coverage provided is too restricted for a single repeater. More repeaters are needed to enable radio users to communicate over the greater distances. A local or wide area network is available at the repeater sites.

SOLUTION

Radio coverage over a large area can be provided by establishing a series of repeater sites linked together. The local or wide area network can be used to link the repeater sites together. Using existing network infrastructure eliminates the need for leased lines, microwave, or radio links and also allows for repeaters to be located in areas where line of sight paths between repeater sites may be restrictive. A network extension unit is connected at both repeater sites allowing PTT/COR and audio signals to be sent across the LAN/WAN to and from the remotely located repeaters.



AN350 VoIP LINKED REPEATER SYSTEM

REQUIRED EQUIPMENT

xT-4/xxx-xxxxxx	VHF/UHF Transmitter Module
xR-4/xxx-xxxxxx	VHF/UHF Receiver Module
SR-39-1	Subrack
SM-3-H0-014-00	System Monitor
A-MIC-01	Microphone
IMxx-xxxxxxx	Instruction manuals
AC-3E	Audio Control Card
A-PNL-AUX96-3	Auxiliary 96-pin Connector
UIC-2	JPS Network Extension Unit OR
UIC-223	Vega VoIP Controller Interface

OPTIONAL EQUIPMENT

AMP-4/xxx-30-00	30 Watt Power Amplifier
SM-3-H0-MVx-00	System Monitor with analog meter
SM-3-H0-R1N-00	System Monitor with Single Antenna Relay
AC-CTCSS-DE1	CTCSS decoder / encoder modules
PSA-12A09-P0-00	AC Power Supply
PSD-15/08-P0-xx	DC to DC Power Supply

FREQUENCY BANDS / RF POWER OUTPUT

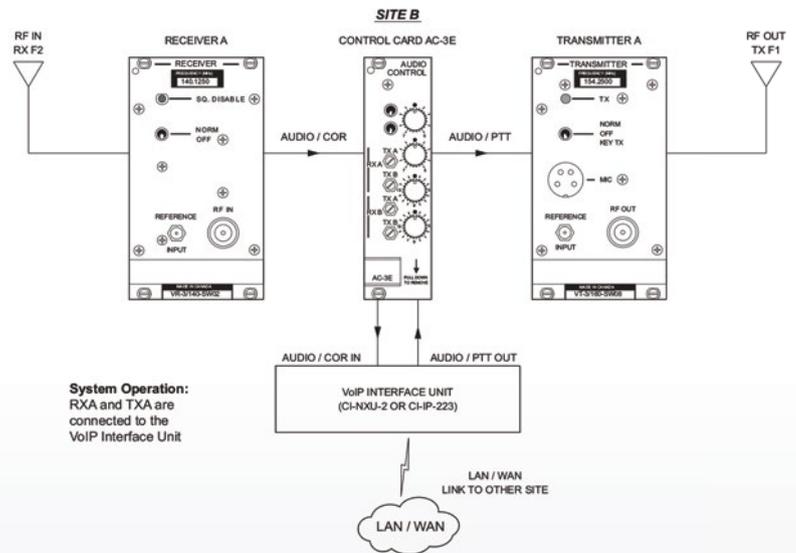
- 30 – 50 MHz / 3, 40, 100, 250 Watts
- 132 – 174 MHz / 8, 30, 100 Watts
- 380 – 520 MHz / 2, 8, 30, 100 Watts
- 769 – 869 MHz / 3, 80 Watts
- 896 – 960 MHz / 3, 80 Watts

RELATED APPLICATIONS

- AN300 Multiple Linked Repeater System
- AN410 Crossband Link Repeater System

AVAILABLE OPTIONS / FEATURES

- CTCSS, DTMF, DCS Control of Links, Telephone Interconnect



SAMPLE BLOCK DIAGRAM OF A VoIP LINKED REPEATER SYSTEM

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www.codanradio.com

CODAN RADIO COMMUNICATIONS

Australia: +61 8 8305 0528 US: +1 585 419 9970 UK: +44 1252 717 272
 Canada: +1 250 382 8268 Dubai: +971 44 53 72 01 LMRsales@codanradio.com

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