

## IAR-005 INDOOR ACTIVE REPEATER

- **Broadband Repeater with 80 Channel Capability**
- **Can feed one 8 Mile path or two 5 Mile paths simultaneously**
- **Upgradeable to Higher Power Repeaters**
- **Requires only 7 inches of Indoor Rack Space**
- **Digital Ready**



### PRODUCT APPLICATION:

The IAR-005 is a solid state, broadband, on-frequency repeater designed to extend the range of cable systems by amplifying an incoming signal and re-transmitting it in one or more directions.

The repeater is used to bypass line of sight obstacles between transmitter and receiver locations.

With a capacity of up to 80 channels, the IAR-005 can extend the range of a system in one direction for 8 miles (12.8 Kilometers) or feed two receivers simultaneously at 5 miles (8 km) each.

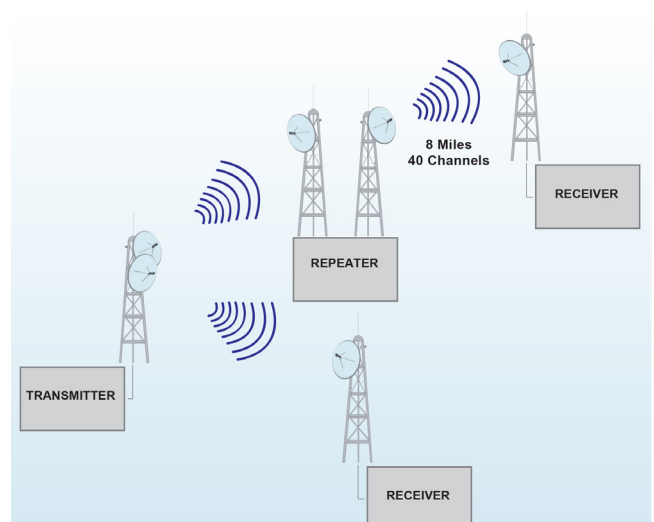
The repeater can operate alone or, if redundancy is critical, paired with another repeater. In this case it can be equipped with manual (remotely controllable) or automatic redundancy switching.

The IAR-005 is rack mounted for convenience and ease of access to components.

Output signal monitoring and operating diagnostic measurements are easily performed manually on site or remotely without interrupting operation.

A local drop is provided to facilitate connection to an on-site receiver.

Designed for many years of trouble-free operation, the IAR-005 is upgradeable to the higher power IAR-011 or IAR-015 models should higher power be needed in the future due to either channel expansion or additional receiver sites.



<b>Repeater</b>													
Output Frequency <sup>2</sup> :	12.7 to 13.25 GHz												
Noise Figure <sup>3</sup> :	7 dB												
Output Level for 65 dB C/CTB:	<table border="1"> <thead> <tr> <th>Channels</th> <th>dBm/Channel</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>2.0</td> </tr> <tr> <td>21</td> <td>-0.5</td> </tr> <tr> <td>35</td> <td>-3.0</td> </tr> <tr> <td>60</td> <td>-5.5</td> </tr> <tr> <td>80</td> <td>-7.0</td> </tr> </tbody> </table>	Channels	dBm/Channel	12	2.0	21	-0.5	35	-3.0	60	-5.5	80	-7.0
	Channels	dBm/Channel											
	12	2.0											
	21	-0.5											
	35	-3.0											
	60	-5.5											
80	-7.0												
Normal Gain:	41 dB												
Gain Flatness:	±1 db												
Total ACG Range:	30 dB												
Input Connector:	WR-75 Waveguide												
Output Connector:	WR-75 Waveguide												
Temperature Range:	60° to 100°F (16° to 38°C)												
Humidity:	95% max.												
Primary Power:	120/240 VAC, 50/60Hz (per customer specification)												
Power Consumption:	200 VA RMS												
Mounting:	19" EIA Standard Relay Rack												
Weight:	30 lb. (13.6 kg)												
Dimensions:	19" rack width x 7" H x 20" D (48.26cm W x 17.7cm H x 55.88 cm D)												

<sup>1</sup> Specifications subject to change without prior notice.

<sup>2</sup> For Group C. Other frequencies available.

<sup>3</sup> Not including loss of AGC attenuator