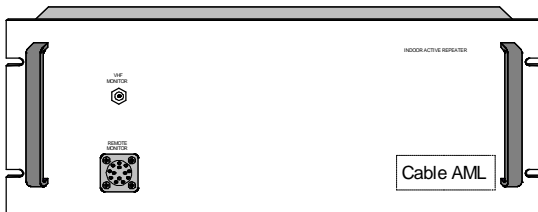


## IAR-011 INDOOR ACTIVE REPEATER



- ◆ **Broadband Repeater with 80 Channel Capability**
- ◆ **Upgradeable to Higher Power Repeaters**
- ◆ **Requires only 7 Inches of Indoor Rack Space**
- ◆ **Redundant Configurable**
- ◆ **Digital Ready**

### PRODUCT APPLICATION:

The IAR-011 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, bypassing line of sight obstacles between desired transmitter and receiver locations.

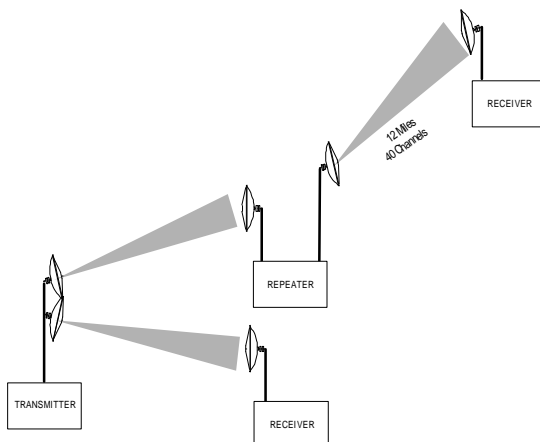
With a capacity of up to 80 channels, the IAR-011 can extend the range of a system in one direction or feed several receivers simulta-

neously. Typical range extension for 40 channel loading is 12 miles (19.2 km). Alternatively, the repeater can feed two simultaneous paths of 9 miles (14.4 km) each.

The repeater can operate alone or, if redundancy is critical, in pairs, in which case it can be equipped with manual (remotely controllable) or automatic redundancy switching. Automatic Gain Control (AGC) circuits make it possible to optimize the fade margin/output power tradeoff.

The IAR-011 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-011 is upgradeable to the higher power IAR-015 model should higher power be needed in the future due to either channel expansion or additional receiver sites.



## IAR-011

Output Frequency <sup>2</sup> :	12.7 to 13.25 GHz	
Noise Figure <sup>3</sup> :	6.5 dB	
Output Level for 65 dB C/CTB :	Channels	dBm/Channel
	12	10.0
	21	7.5
	35	5.0
	60	2.5
	80	1.0
Nominal Gain:	51 dB	
Gain Flatness:	±1 dB	
Total AGC Range:	30 dB	
Input Connector:	WR-75 Waveguide	
RF Output Connector:	WR-75 Waveguide	
Temperature Range:	60° to 100°F (16° to 38°C)	
Humidity:	95%	
Primary Power:	120/240 VAC, 50/60Hz (per customer specification)	
Power Consumption:	250 VA RMS	
Mounting:	19" EIA Standard Relay Rack	
Weight:	45 lb. (20.5 kg)	
Dimensions:	19" rack width x 7"H x 20"D	
	(48.26cm rack width x 17.78cm 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.