CABLE AML



IAR-050 INDOOR ACTIVE REPEATER

- Broadband Repeater with 80 Channel Capability
- Can feed a 20 Mile path or two 15 Mile paths simultaneously
- Requires only 7 inches of Indoor Rack Space
- Digital Ready

PRODUCT APPLICATION:

The IAR-050 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.

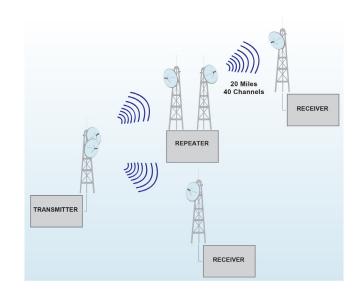
With a capacity of up to 80 channels, the IAR-050 can extend the range of a system in one direction or feed several receivers simultaneously. Typical range extension for 40 channel loading is 20 miles (32 Kilometers). Alternatively, the repeater can feed two simultaneous paths of 15 miles (24 km) each.

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-050 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.

Automatic Gain Control (AGC) circuits make it possible to optimize the fade margin/output power trade off.



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Product Specification¹



Repeater					
Output Frequency ² :	12.7 to 13.25 GHz				
Noise Figure ³ :	5.5 dB				
Output Level for 65 dB C/CTB:		Channels	dBm/Channel		
		12	14.0]	
		21	11.5		
		35	9.0		
		60	6.5	-	
	[80	5.0]	
Normal Gain:	51 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:	250 VA RMS				
Mounting:	19" EIA Standard Relay Rack				
Weight:	65 lb.	65 lb. (29.5 kg)			
Dimensions:	19" rack width x 7" H x 20" D (48.26cm W x 17.7cm H x 55.88 cm D)				

¹ Specifications subject to change without prior notice.

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² For Group C. Other frequencies available.

³ Not including loss of AGC attenuator