

IAR-011 INDOOR ACTIVE REPEATER



- **Broadband Repeater with 8 Channel Capability**
- **Can feed a 12 mile path or two paths of 9 miles each**
- **Requires only 7 inches of Indoor Rack Space**
- **Upgradeable to Higher Power Repeaters**
- **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.

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

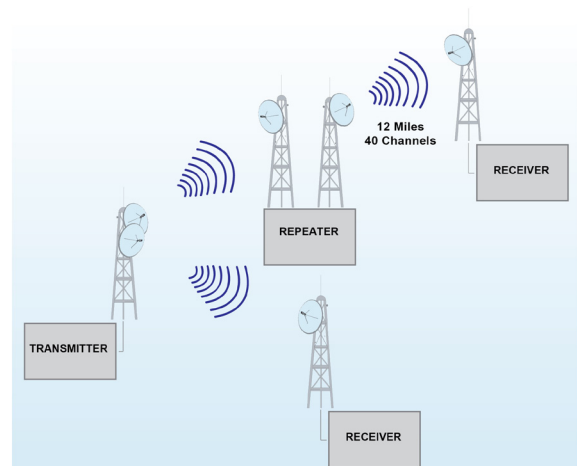
With a capacity of up to 80 channels, the IAR- 011 can extend the range of a system in one direction for 12 miles (19 Kilometers) or feed several receivers simultaneously. Alternatively, the repeater can feed two simultaneous paths of 9 miles (14.4 km) each.

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

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



Product Specification¹

CABLE AML

| Repeater | | | | | | | | | | | | | |
|--------------------------------|---|----------|-------------|----|------|----|-----|----|-----|----|-----|----|-----|
| Input Frequency ² : | 12.7 to 13.25 GHz | | | | | | | | | | | | |
| Noise Figure ³ : | 6.5 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>10.0</td></tr><tr><td>21</td><td>7.5</td></tr><tr><td>35</td><td>5.0</td></tr><tr><td>60</td><td>2.5</td></tr><tr><td>80</td><td>1.0</td></tr></tbody></table> | Channels | dBm/Channel | 12 | 10.0 | 21 | 7.5 | 35 | 5.0 | 60 | 2.5 | 80 | 1.0 |
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| 60 | 2.5 | | | | | | | | | | | | |
| 80 | 1.0 | | | | | | | | | | | | |
| 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: | 45 lb. (20.5 kg) | | | | | | | | | | | | |
| Dimensions: | 19" W x 7" H x 20" D (48.26cm W x 17.78cm H x 50.88cm D) | | | | | | | | | | | | |

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available.

³ Not including loss of AGC attenuator.