

ITX-011 INDOOR BROADBAND TRANSMITTER



- **High Power Broadband Transmitter with 80 Channel Capability**
- **Can Feed One Link of 20 Miles or Four Links of 10 Miles each with 40 Channel Loading**
- **Upgradable, Modular Design**
- **Requires only 7 inches of Indoor Rack Space**
- **Digital Ready**

PRODUCT APPLICATION:

The ITX-011 is a solid state broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 80 television channels.

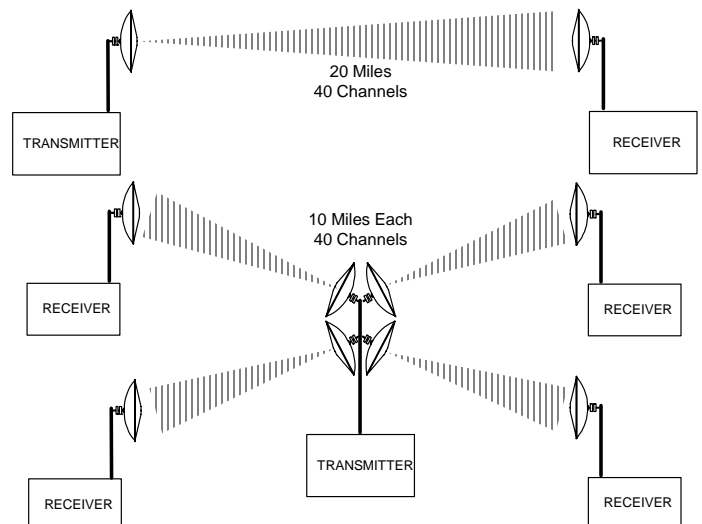
This transmitter can be used to feed a single link, or several links simultaneously. A typical application example would be a single 20-mile (32 kilometer) link with 40 channel loading, or 4 simultaneous links of 10 miles (16 kilometers) each.

The ITX-011 is rack mounted for convenience and ease of access to components. It incorporates the latest Gallium Arsenide power amplifier technology to deliver a clean, reliable signal.

Output signal monitoring and operating diagnostic measurements are easily

performed without interrupting operation.

Designed for many years of trouble-free operation, the ITX-011 can be field upgraded to higher power units of the ITX solid state family of transmitters.



ITX-011

Transmitter																			
Input Frequency ² :	54 to 550 MHz																		
Nominal Input Level for 12 TV:	+14 dBmV (-25 dBm per channel)																		
Output Frequency ² :	12.7 to 13.25 GHz																		
Output Level for 65 dB C/CTB:	<table border="1"> <thead> <tr> <th>Channels</th> <th>dBm/Channel</th> <th>C/N (dB)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>10.0</td> <td>63.5</td> </tr> <tr> <td>21</td> <td>7.5</td> <td>60.5</td> </tr> <tr> <td>35</td> <td>5.0</td> <td>58.0</td> </tr> <tr> <td>60</td> <td>2.5</td> <td>55.5</td> </tr> <tr> <td>80</td> <td>1.0</td> <td>54.0</td> </tr> </tbody> </table>	Channels	dBm/Channel	C/N (dB)	12	10.0	63.5	21	7.5	60.5	35	5.0	58.0	60	2.5	55.5	80	1.0	54.0
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Normal Gain ³ :	36 dB																		
Frequency Response:	±1 dB																		
Frequency Stability:	0.0005%																		
Input Return Loss:	15 dB																		
Input Connector:	Type "F"																		
Output Return Loss:	18 dB																		
RF Output Connector:	WR-75 Waveguide																		
Temperature Range:	60° to 100°F (16° to 32°C)																		
Humidity	95% max.																		
Primary Power:	120 VAC, 50/60Hz																		
Power Consumption:	300 VA RMS																		
Mounting:	19" EIA Standard Relay Rack																		
Weight:	45 lb. (20. 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 Gain may be varied with 10dB attenuator.