

ITX-050D INDOOR BROADBAND TRANSMITTER

- **High Power Broadband Transmitter with 80 Channel Capability**
- **Can Feed Two Links of 25 Miles Each or Four Links of 20 Miles each with 40 Channel Loading**
- **Solid State Replacement for Multiple Channelized Transmitters**
- **Requires only 31.5 inches of Indoor Rack Space**
- **Fully Redundant with Automatic or Manual switching and Local and/or Remote Control**
- **Digital Ready**



PRODUCT APPLICATION:

The ITX-050D is a fully redundant solid state broadband transmitter designed to implement high quality, high power microwave links for transporting up to 80 television channels.

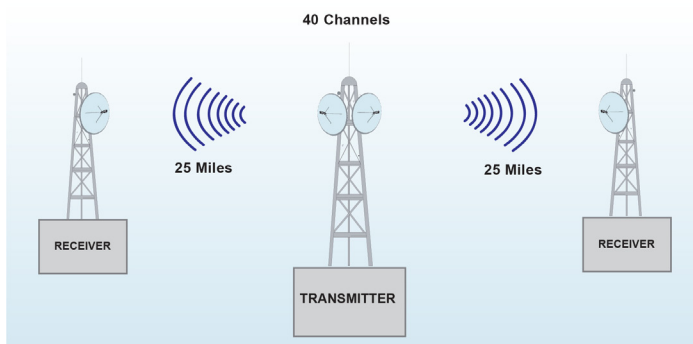
This transmitter can be used to feed two or more links. A typical application example would be two simultaneous links of 25 miles (40 km) each with 40 channel loading.

The ITX-050D is made up of two ITX-050 transmitter units and a redundancy controller, all rack mounted for convenience and ease of access to components.

The ITX-050D incorporates the latest Gallium Arsenide power amplifier technology to deliver a clean, reliable signal.

Output signal monitoring and diagnostic measurements are available locally or remotely via Internet.

Designed for many years of trouble-free operation, the ITX-050D can be upgraded to higher power models of the ITX line.



Product Specification¹



Transmitter																			
Input Frequency ² :	54 to 550 MHz																		
Nominal Input Level for 12 TV:	+18 dBmV (-31 dBm)																		
Output Frequency ² :	12.7 to 13.25 GHz																		
Output Level for 65 dB C/CTB: (Each of Two Ports)	<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>14.0</td> <td>67.0</td> </tr> <tr> <td>21</td> <td>11.5</td> <td>64.5</td> </tr> <tr> <td>35</td> <td>9.0</td> <td>62.0</td> </tr> <tr> <td>60</td> <td>6.5</td> <td>59.5</td> </tr> <tr> <td>80</td> <td>5.0</td> <td>58.0</td> </tr> </tbody> </table>	Channels	dBm/Channel	C/N (dB)	12	14.0	67.0	21	11.5	64.5	35	9.0	62.0	60	6.5	59.5	80	5.0	58.0
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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:	120/240 VAC, 50/60Hz (per customer specification)																		
Power Consumption:	900 VA RMS																		
Mounting:	19" EIA Standard Relay Rack																		
Weight:	130 lb. (59.1 kg)																		
Dimensions:	3 @ 19" rack width x 7" H x 20" D 3 @ (48.26cm rack width 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.