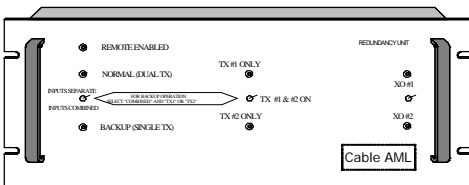
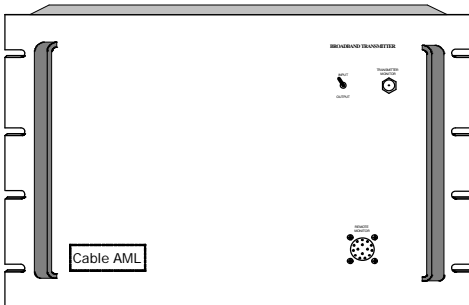
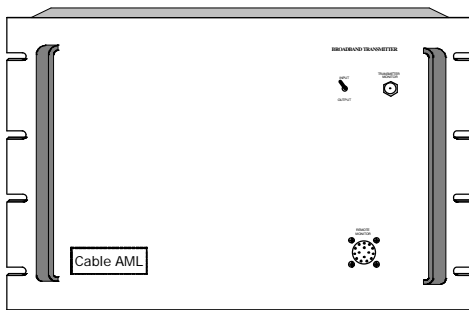


ITX-100D INDOOR BROADBAND TRANSMITTER

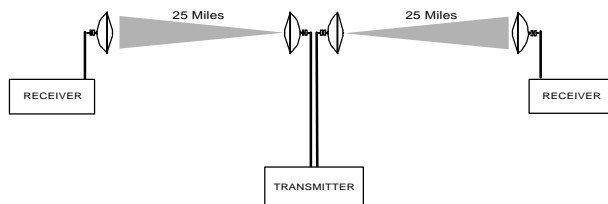
- ◆ High Power Broadband Transmitter with 80 Channel Capability
- ◆ Can Feed Two links at 25 Miles each or Eight Links at 20 Miles each with 80 Channel Loading
- ◆ Solid State Replacement for Channelized Transmitters
- ◆ Requires only 40 inches of Indoor Rack Space
- ◆ Fully Redundant with Automatic or Manual switching and Local and/or Remote Control
- ◆ Optional remote diagnostics (PC compatible)
- ◆ Digital Ready



PRODUCT APPLICATION:

The ITX-100D 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 80 channel loading.

The ITX-100D is made up of two ITX-100 transmitter units and a redundancy controller, all rack mounted for convenience and ease of access to components.

The ITX-100D incorporates the latest Gallium Arsenide power amplifier technology to deliver a clean, reliable signal.

Output signal monitoring as well as operation diagnostic measurements are easily performed without interrupting operation.

ITX-100D

Input Frequency:	54 to 550 MHz																		
Input Level (80 channel loading):	+21 dBmV (-28 dBm per channel)																		
Output Frequency ² :	12.7 to 13.25 GHz																		
Output Level for 65 dB C/CTB : (Each of Two Microwave Outputs)	<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>16.5</td> <td>67.0</td> </tr> <tr> <td>21</td> <td>14.0</td> <td>64.5</td> </tr> <tr> <td>35</td> <td>11.5</td> <td>62.0</td> </tr> <tr> <td>60</td> <td>9.0</td> <td>59.5</td> </tr> <tr> <td>80</td> <td>7.5</td> <td>58.0</td> </tr> </tbody> </table>	Channels	dBm/Channel	C/N (dB)	12	16.5	67.0	21	14.0	64.5	35	11.5	62.0	60	9.0	59.5	80	7.5	58.0
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80	7.5	58.0																	
Nominal Gain ³ :	35 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 38°C)																		
Humidity:	95%																		
Primary Power:	120 VAC, 50/60Hz																		
Power Consumption:	950 VA RMS																		
Mounting:	19" EIA Standard Relay Rack																		
Weight:	265 lb. (120 kg)																		
Dimensions:	19" rack width x 40"H x 24"D																		
	(48.26cm rack width x 101.6cm H x 61 cm D)																		

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available

³ Gain may be varied with 10 dB attenuator.