

## ITX-001 INDOOR BROADBAND TRANSMITTER



- **Broadband Transmitter**
- **80 Channel Capacity**
- **Up to 3 Miles with 40-Channel Loading**
- **Upgradable, Modular Design**
- **Requires only 7 inches of Indoor Rack Space**
- **Digital Ready**

### PRODUCT APPLICATION:

The ITX-001 is a solid state broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 80 television channels for short distances.

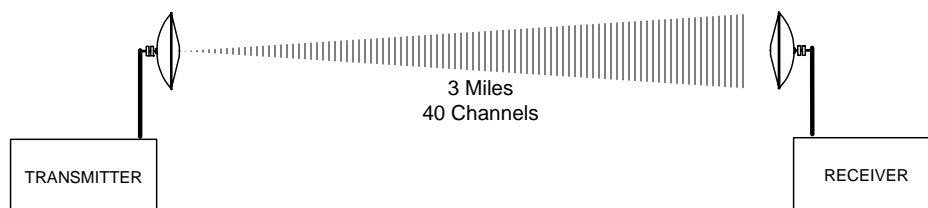
A typical application example would be a three-mile (4.8 kilometers) link with 40 channel loading.

The ITX-001 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 diagnostic measurements are available locally or remotely via Internet.

Designed for many years of trouble-free operation, the ITX-001 can be upgraded to higher power units of the ITX solid state family of transmitters.



**ITX-001**

<b>Transmitter</b>																			
Input Frequency <sup>2</sup> :	54 to 550 MHz																		
Nominal Input Level for 12 TV:	+20 dBmV (-29 dBm)																		
Output Frequency <sup>2</sup> :	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>-8.0</td> <td>65.5</td> </tr> <tr> <td>21</td> <td>-10.0</td> <td>63.0</td> </tr> <tr> <td>35</td> <td>-12.5</td> <td>60.5</td> </tr> <tr> <td>60</td> <td>-15.0</td> <td>58.0</td> </tr> <tr> <td>80</td> <td>-16.0</td> <td>55.5</td> </tr> </tbody> </table>	Channels	dBm/Channel	C/N (dB)	12	-8.0	65.5	21	-10.0	63.0	35	-12.5	60.5	60	-15.0	58.0	80	-16.0	55.5
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Normal Gain <sup>3</sup> :	13 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:	75 VA RMS																		
Mounting:	EIA Standard Relay Rack																		
Weight:	18 lb. (8.2 kg)																		
Dimensions:	19" W x 7" H x 20" D (48.26cm W x 17.78cm H x 50.88cm D)																		

<sup>1</sup> Specifications subject to change without prior notice.

<sup>2</sup> For Group C. Other frequencies available.

<sup>3</sup> Gain may be varied with 10dB attenuator.