

ITX18-001 INDOOR BROADBAND TRANSMITTER

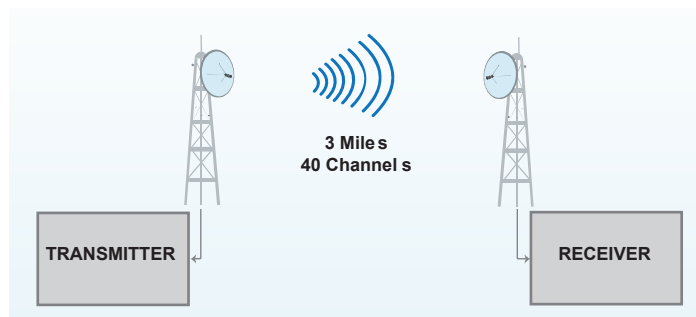
- **Broadband Transmitter with 72 Channel Capability**
- **Up to 3 Miles with 40-Channel Loading**
- **Upgradable, Modular Design**
- **Requires only 7 inches of Indoor Rack Space**
- **Digital Ready**



PRODUCT APPLICATION:

The ITX18-001 is a solid state broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 72 television channels in the 18 GHz band.

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



The ITX18-001 is configured in an indoor rack-mounted version, 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 operation diagnostic measurements are easily performed without interrupting operation.

Designed for many years of trouble-free operation, the ITX18-001 can be upgraded to higher power units of the ITX18 family of transmitters.

Product Specification¹

CABLE AML

Transmitter																		
Input Frequency:	54 to 550 MHz																	
Input Level:	20 dBmV																	
Output Frequency:	17.70 to 18.30 GHz																	
Output Level for 60 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>-1.5</td> <td>62.0</td> </tr> <tr> <td>21</td> <td>-4.0</td> <td>59.5</td> </tr> <tr> <td>35</td> <td>-6.5</td> <td>57.0</td> </tr> <tr> <td>72</td> <td>-9.5</td> <td>54.0</td> </tr> </tbody> </table>			Channels	dBm/Channel	C/N (dB)	12	-1.5	62.0	21	-4.0	59.5	35	-6.5	57.0	72	-9.5	54.0
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12	-1.5	62.0																
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Normal Gain ² :	23 dB																	
Frequency Response:	±1.0 dB																	
Frequency Stability:	0.0005%																	
Input Return Loss:	15 dB																	
Input Connector:	Type "F"																	
Output Return Loss:	18 dB																	
Output Connector	WR-42 Waveguide																	
Temperature Range:	60° to 100°F (16° to 32°C)																	
Humidity	100% max.																	
Primary Power:	120/240 VAC, 50/60Hz (per customer specification)																	
Power Consumption:	100 VA RMS																	
Mounting:	EIA Standard Relay Rack																	
Weight:	30 lbs. (13.6 kg)																	
Dimensions:	19" rack width x 12.5" H x 24" D (48.3cm W x 31.8cm H x 61cm D)																	

¹ Specifications subject to change without prior notice.

² Other frequencies available.