

ITX18-002 INDOOR BROADBAND TRANSMITTER

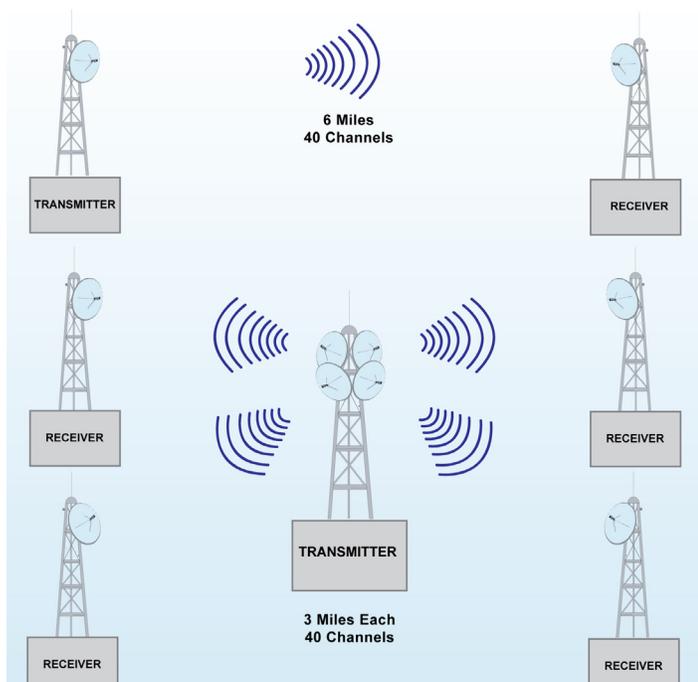
- **Broadband Transmitter with 72 Channel Capability**
- **Can Feed Four Receivers at 3 Miles Each**
- **Upgradable, Modular Design**
- **Requires only 7 inches of Indoor Rack Space**



PRODUCT APPLICATION:

The ITX18-002 is a solid state broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 72 television channels.

This transmitter can be used to feed a single link or several links simultaneously. A typical application example would be a single 6-mile (10-kilometer) link with 40 channel loading, or four simultaneous links of 3 miles (5 kilometers) each.



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 ITX18-000 can be upgraded to higher power units of the ITX18 family of transmitters.

Product Specification¹

CABLE AML

Transmitter																
Input Frequency:	54 to 552 MHz															
Input Level:	20 dBmV															
Output Frequency ² :	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>3.0</td> <td>61.0</td> </tr> <tr> <td>21</td> <td>0.5</td> <td>58.5</td> </tr> <tr> <td>35</td> <td>-2.0</td> <td>56.0</td> </tr> <tr> <td>72</td> <td>-5.0</td> <td>53.5</td> </tr> </tbody> </table>	Channels	dBm/Channel	C/N (dB)	12	3.0	61.0	21	0.5	58.5	35	-2.0	56.0	72	-5.0	53.5
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12	3.0	61.0														
21	0.5	58.5														
35	-2.0	56.0														
72	-5.0	53.5														
Normal Gain ³ :	33 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:	175 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.

³ Gain may be varied with 10dB attenuator.