

ITX18-000 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:

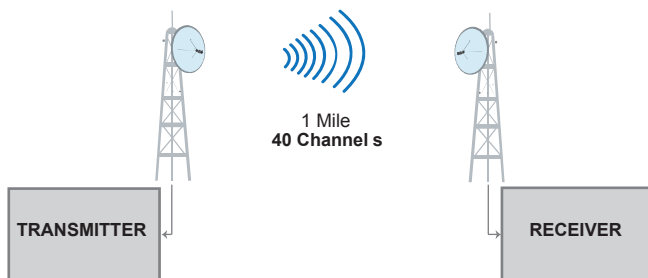
The ITX18-000 is a solid state broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 72 television channels in the 18 GHz band.

A typical application example would be a one-mile (1.6-kilometers) link with 40 channel loading.

The ITX18-000 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:	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>-7.5</td><td>62.0</td></tr><tr><td>21</td><td>-10.0</td><td>59.5</td></tr><tr><td>35</td><td>-12.5</td><td>57.0</td></tr><tr><td>72</td><td>-15.5</td><td>54.0</td></tr></tbody></table>	Channels	dBm/Channel	C/N (dB)	12	-7.5	62.0	21	-10.0	59.5	35	-12.5	57.0	72	-15.5	54.0
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21	-10.0	59.5														
35	-12.5	57.0														
72	-15.5	54.0														
Normal Gain ² :	18 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.