Cable AML

ITX-050
INDOOR BROADBAND TRANSMITTER

- **High Power Broadband Transmitter with 80 Channel Capability**
- **Can Feed One Link of 25 Miles or Four Links of 8 Miles each with 40 Channel Loading**
- **Requires only 7 inches of Indoor Rack Space**
- **Local or Remote Diagnostics**
- **Digital Ready**

PRODUCT APPLICATION:

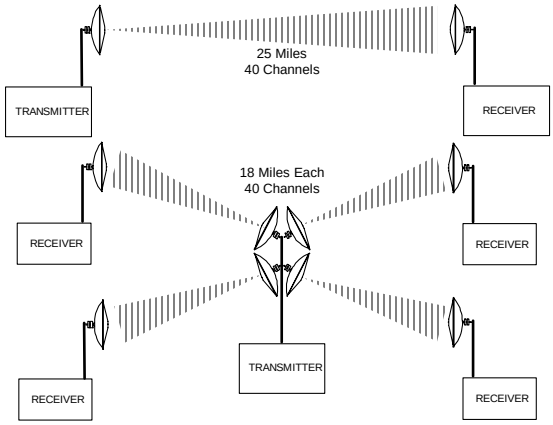
The ITX-050 is a solid state broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 80 television channels.

This transmitter can be used to feed a single link or several links simultaneously. A typical application example would be a single 25-mile (40 km) link with 40 channel loading, or 4 simultaneous links of 18 miles (29 km) each.

This transmitter can be used alone or in pairs to replace older channelized units. The ITX-050 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-050 can be upgraded to higher power units of the ITX family of transmitters.



Product Specification[1]

Cable AML

ITX-050

Transmitter	
Input Frequency[2]:	54 to 550 MHz
Nominal Input Level for 12 TV:	+18 dBmV (-31 dBm per channel)
Output Frequency[2]:	12.7 to 13.25 GHz
Output Level for 65 dB C/CTB:	

Channels	dBm/Channel	C/N (dB)
12	14.0	67.0
21	11.5	64.5
35	9.0	62.0
60	6.5	59.5
80	5.0	58.0

Normal Gain[3]:	36 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 VAC, 50/60Hz
Power Consumption:	300 VA RMS
Mounting:	19” EIA Standard Relay Rack
Weight:	34.25 lb. (15.5 kg)
Dimensions:	19” W x 7” H x 20” D (48.26cm W x 17.78cm H x 50.88cm D)

[1] Specifications subject to change without prior notice.

[2] For Group C. Other frequencies available.

[3] Gain may be varied with 10dB attenuator.