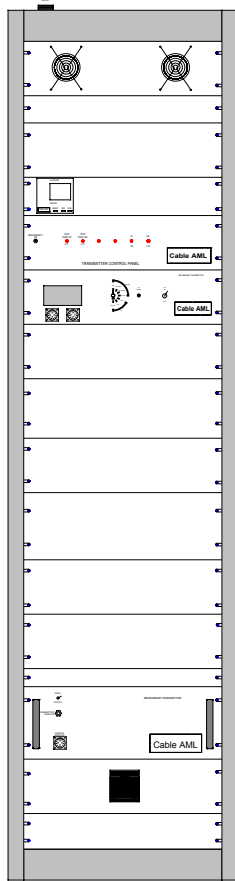


ITX-1300 INDOOR BROADBAND TRANSMITTER



- ◆ **High Power Broadband Transmitter with 80 Channel Capability**
- ◆ **Can Feed Two links at 25 Miles each or Four Links at 20 Miles each with 80 Channel Loading**
- ◆ **Ultra-reliable Power Amplifier with State-of-the-Art Linearization**
- ◆ **Modular Design, Field Upgradeable to the ITX-1300D**
- ◆ **Optional remote diagnostics (PC Compatible)**
- ◆ **Digital Ready**

PRODUCT APPLICATION:

The ITX-1300 is a broadband, high-power transmitter with 80 channel capability. Its state-of-the-art power amplifier circuitry delivers an unprecedented +23 dBm (200 mW) per channel for 35 channel loading and +20 dBm (100 mW) per channel for 60 channel loading, while holding output distortion at 65 dB C/CTB NCTA under worst-case conditions.

With this output power capability, the ITX-1300 can feed several links simultaneously with very high reliability.

A typical application example is a 80 channel system with the transmitter simultaneously feeding two links at 25

miles (40 km) each, or four links at 20 miles (32 km) each.

The ITX-1300 features a thoroughly modular design with easy to read diagnostics and an inherently reliable fail-soft architecture that allows service restoration at lower power levels without interruption of service. The transmitter is upgradeable to the (ITX-1300D) dual redundant configuration.

Packaged in a compact 7 foot rack, the ITX-1300 accepts standard VHF cable input of up to 80 channels and directly feeds the output WR-75 waveguide without need for complex multiplexing networks.

ITX-1300

Transmitter			
Input Frequency:	54 to 552 MHz		
Nominal Input Level (80 channel loading):	+20dBmV (-29 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	28.0	66.0
	21	25.0	63.0
	35	23.0	61.0
	60	20.0	58.0
	80	19.0	57.0
Nominal Gain ³ :	48 dB		
Frequency Response:	±1 dB		
Frequency Stability:	0.0005%		
Input Return Loss:	20 dB		
Input Connector:	Type "F"		
Output Return Loss:	20 dB		
RF Output Connector:	WR-75 Waveguide		
Temperature Range:	60° to 100°F (16° to 38°C)		
Humidity:	95%		
Primary Power:	120/240 VAC, 50/60Hz (per customer specification)		
Power Consumption:	2160 VA RMS		
Mounting:	Enclosed Equipment Rack		
Weight:	500 lb. (227.3 kg)		
Dimensions:	22" W x 84" H x 27" D (55.9cm W x 213.4cm H x 68.6cm D)		

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available.

³ Gain may be varied with 10 dB input attenuator.