CABLE AML



ITX-1300 INDOOR BROADBAND TRANSMITTER

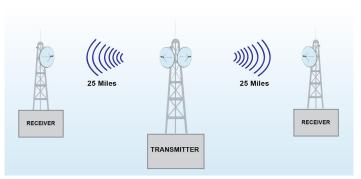
- High Power Broadband Transmitter with 80 Channel Capability
- Can Feed Two Links of 25 Miles or Four Links of 20 Miles each with 80 Channel Loading
- Ultra-reliable Power Amplifier with State-of-the-Art Linearization
- Modular Design, Field Upgradeable to the ITX-1300D
- Optional Remote Diagnostics (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 (200mW) 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.

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Product Specification¹



Transmitter				
Input Frequency ² :	54 to 552 MHz			
Nominal Input Level for 12 TV:	+20 dBmV (-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
Normal Gain ³ :	48 dB			
Frequency Response:	±1 dB			
Frequency Stability:	0.0005%			
Input Return Loss:	20 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:	120/240 VAC, 50/60Hz (per customer specification)			
Power Consumption:	375 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.

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² For Group C. Other frequencies available.

³ Gain may be varied with 10dB attenuator.