

ITX02-1000D DUAL TRANSMITTER (Two integrated transmitters, 1,000 Watts each)



- **Dual Broadband High Power Transmitter**
- **Automated Redundancy Switching**
- **State-of-the-Art Linearization Technology**
- **Redundant Power Amplifiers and Power Supplies**
- **Web-Enabled SNMP- Compatible Diagnostics**

PRODUCT APPLICATION:

The ITX02-1000D is a broadband dual redundant transmitter system capable of transmitting a total of 32 digital carriers with 64QAM, 256QAM, OFDM or COFDM modulation.

The transmitter incorporates traditional Cable AML reliability and design features including advanced linearization techniques for maximum output power consistent with linearity and C/IM requirements.

The ITX02-1000D is designed to provide cost-effective coverage over a very wide area of more than 50 Km radius. Transmitter output power as a function of channel loading is shown in the attached table.

The ITX02-1000D is a dual redundant system comprised of two separate transmitters and an automatic redundancy module.

Each transmitter accepts half of the total channel load and delivers one or two independent outputs, each with the full channel load.

The redundancy module automatically switches all the channels to one transmitter during scheduled maintenance or any other eventuality.

Each of the transmitters incorporates redundant power amplifiers and redundant power supplies for increased reliability.

Transmitter monitoring is provided through a web-enabled monitoring module which is also SNMP compatible.

Product Specification¹

CABLE AML

Transmitter				
Input Frequency ² :	222 to 420 MHz			
Nominal Input Level for 12 TV:	+20 dBmV (-29 dBm)			
Output Frequency ² :	2.5 to 2.7 GHz			
Output Level for 50 dB C/CTB: (measured with CW carriers) ³	Channels	Average Power dBm/Channel	Peak Power dBm/Channel	C/N (dB)
	9	37.5	40.0	66.5
	12	36.0	38.5	65.0
	18	34.0	36.5	63.0
	24	32.0	34.5	61.0
	30	31.0	33.5	60.0
Local Oscillator Frequency ²	2278 MHz			
Frequency Response	±1 dB			
Frequency Stability	0.0005%			
Input Return Loss:	15 dB			
Input Connector:	Type "F"			
Output Return Loss:	18 dB			
Output Connector:	Type "N"			
Temperature Range:	60° to 100°F (16° to 38°C)			
Humidity:	95% max.			
Primary Power:	120/240 VAC, 50/60Hz (per customer specification)			
Power Consumption:	2300 VA RMS			
Mounting:	Enclosed Equipment Rack			
Weight:	450 lb. (205 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 Other frequencies available.

³ The C/CTB with modulated carriers are approximately 6 dB better than with CW carriers.