CABLE AML



ITX02-010C BROADBAND TRANSMITTER (10Watts)

- Broadband Transmitter with 31 Analog Channels or 150 Digital Program Capability
- Upgradeable to Higher Power Transmitters
- Modular Construction
- Efficient, Compact Design

PRODUCT APPLICATION:

The ITX02-010C is a broadband MMDS transmitter with a channel capacity up to 31 analog television channels or 150 digital channels (64 QAM, 256 QAM or OFDM modulation).

It is designed to provide cost-effective coverage over a small area. With an omnidirectional transmit antenna, it can cover an area of approximately 2 Kilometer radius with 150 digital TV programs or 31 analog channels, or a 4 Km radius with 80 digital TV programs or 15 analog channels.

A larger area can be covered if the desired coverage is less than 360 degrees in azimuth.

The input is a broadband signal in the 222 - 420 MHz frequency range. The output is in the 2.5 - 2.7 GHz range.

As in all broadband transmitters, the output power depends on the number of channels.

For example, with 60 digital TV programs or 9 analog channels the transmitter delivers over 50 milliwatts per channel (with a C/CTB of 50 dB) or approximately 100mW per channel peak power.

The transmitter is very easy to install and operate. Its compact design requires only 7 inches (17.8 cm) height in a standard 19 inch (48.3 cm) wide rack or cabinet. It is designed to operate indoors without air conditioning requirements.

The transmitter features a modular design for ease of maintenance and service. The key modules are the 12 VDC power supply, upconverter, power amplifier and diagnostic circuits.

One option offered with the transmitter is output monitoring at VHF frequencies.

Cable AML, Inc. Tel: (310) 222-5599 Fax: (310) 222-5593 www.cableaml.com 20120530

Product Specification¹



Transmitter				
Input Frequency ² :	222 to 420 MHz			
Nominal Input Level for 12 TV:	20 dBmV			
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	17.5	20.0	59.5
	12	16.0	18.5	58.0
	18	14.0	16.5	56.0
	31	12.0	14.5	54.0
	31	11.0	13.3	33.0
Local Oscillator Frequency ²	2278 MHz			
Gain:	48 dB			
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:	250 VA RMS			
Mounting:	EIA Standard Relay Rack			
Weight:	46 lb. (20.9 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.

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