

OTX-005 OUTDOOR BROADBAND TRANSMITTER

- **Broadband Transmitter with 80 Channel Capability**
- **Can Feed One Link at 10 Miles or Four Links of 6 Miles Each**
- **Outdoor Enclosure**
- **Modular Design**
- **Digital Ready**



PRODUCT APPLICATION:

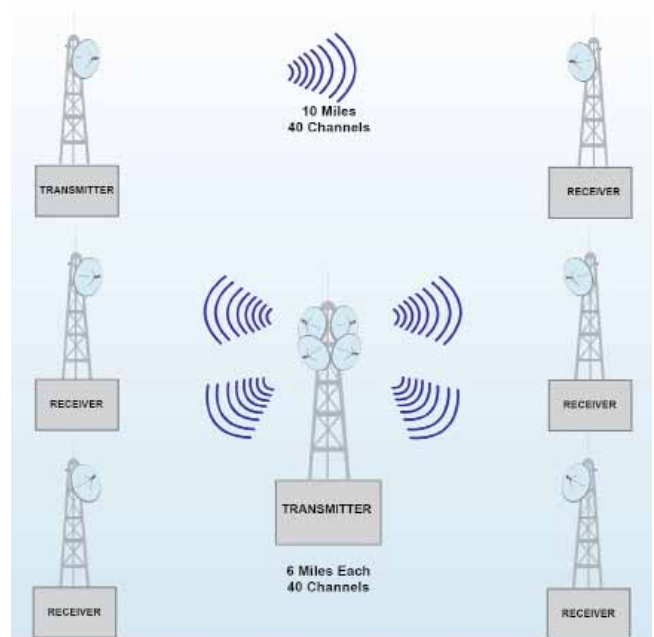
The OTX-005 Transmitter is an outdoor, solid state, broadband transmitter designed to implement high quality, cost-effective microwave links for transporting up to 80 television channels.

This transmitter can be used to feed a single link or several links simultaneously. A typical application example is a single 10-mile (16 km) link with 40 channel loading or four simultaneous links of 6 miles (9.6 kilometers) each.

The OTX-005 features operating diagnostics such as output signal level monitoring, phase-lock status and power supply voltages. Remote diagnostics monitoring is offered as an option.

The transmitter incorporates Automatic Gain Control (AGC) to maintain constant gain over the operating temperature range, a low-noise crystal-controlled reference oscillator and solid state GaAs power amplifier for best reliability and performance.

Designed for many years of trouble-free operation, the OTX-005 can be upgraded to the higher power OTX-005+.



Product Specification¹



Transmitter																					
Input Frequency:	54 to 552 MHz																				
Nominal Input Level for 12 TV:	+24 dBmV (-25dBm) per channel																				
Output Frequency ² :	12700.5 to 13198.5 MHz																				
Output Level for 65 dB C/CTB:	<table border="1"> <thead> <tr> <th>Channels</th> <th>dBm/Channel</th> <th>C/N (dB)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>2.0</td> <td>65.0</td> </tr> <tr> <td>21</td> <td>-0.5</td> <td>62.5</td> </tr> <tr> <td>35</td> <td>-3.0</td> <td>60.0</td> </tr> <tr> <td>60</td> <td>-5.5</td> <td>57.5</td> </tr> <tr> <td>80</td> <td>-7.0</td> <td>56.0</td> </tr> </tbody> </table>			Channels	dBm/Channel	C/N (dB)	12	2.0	65.0	21	-0.5	62.5	35	-3.0	60.0	60	-5.5	57.5	80	-7.0	56.0
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Normal Gain ³ :	18 dB																				
Frequency Response:	±1 dB																				
Frequency Stability:	0.0005%																				
Input Return Loss:	15 dB																				
Input Connector:	5/8" X 24 Female, "F" Female adapter included																				
Output Return Loss:	18 dB																				
RF Output Connector	WR-75 Waveguide																				
Temperature Range:	32° to 110°F (0 to 43 °C)																				
Humidity:	100% max. noncondensing																				
Primary Power:	210-240 VAC @ 50/60Hz or per customer spec.																				
Power Consumption:	100 Watts																				
Mounting:	Antenna Pole Mount																				
Weight:	30 lbs. (13.6 kg)																				
Dimensions:	12" W x 11" H x 20" D (305 x 280 x 495 mm)																				

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available.

³ Gain may be varied with 10dB attenuator.