

OTX-001 OUTDOOR BROADBAND TRANSMITTER

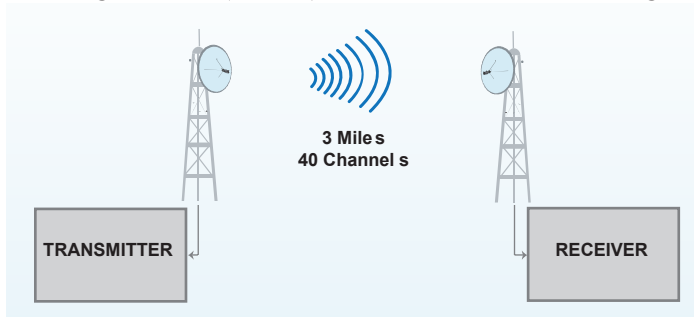
- **Broadband Transmitter with 80 Channel Capability**
- **Can Feed a 3 Mile Link with 40 - Channel Loading**
- **Outdoor Enclosure**
- **Modular Design**
- **Digital Ready**



PRODUCT APPLICATION:

The OTX-001 Transmitter is a low power 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 would be a single 3-mile (4.8 km) link with 40 channel loading.



The OTX-001 features operating diagnostics such as output signal level monitoring, DRO status and power supply voltages. Remote diagnostics monitoring is offered as an option.

The transmitter incorporates an Automatic Gain Control (AGC) circuit for gain control over its operating temperature range, and a State-of-the-Art, 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-001 can be upgraded to higher power models of the OTX solid state family of transmitters.

Product Specification¹

CABLE AML

Transmitter																					
Input Frequency ² :	54 to 550 MHz																				
Nominal Input Level for 12 TV:	+20 dBmV (-29 dBm)																				
Output Frequency ² :	12.7 to 13.25 GHz																				
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>-8.0</td><td>65.5</td></tr><tr><td>21</td><td>-10.0</td><td>63.0</td></tr><tr><td>35</td><td>-12.5</td><td>60.5</td></tr><tr><td>60</td><td>-15.0</td><td>58.0</td></tr><tr><td>80</td><td>-16.0</td><td>55.5</td></tr></tbody></table>			Channels	dBm/Channel	C/N (dB)	12	-8.0	65.5	21	-10.0	63.0	35	-12.5	60.5	60	-15.0	58.0	80	-16.0	55.5
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Normal Gain ³ :	16 dB																				
Frequency Response:	±1 dB																				
Frequency Stability:	0.0005%																				
Input Return Loss:	15 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	100% max.																				
Primary Power:	60/120/240 VAC, 50/60Hz or 12/24 VDC (per customer spec)																				
Power Consumption:	75 VA RMS																				
Mounting:	Antenna Pole																				
Weight:	50 lb. (22.7 kg)																				
Dimensions:	16" H x 13" W x 7" D (40.6cm x 33cm x 17.8cm)																				

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available.

³ Gain may be varied with 10dB attenuator.