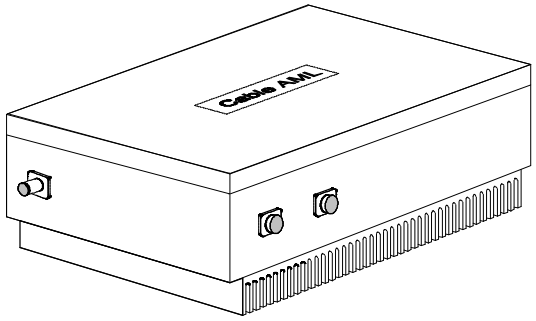
Cable AML

OTX-001
OUTDOOR BROADBAND TRANSMITTER

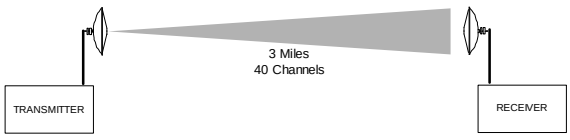


- **Broadband Transmitter, 80 Channel Capability**
- **Can Feed Up to 3 Miles with 40-Channel Loading**
- **Outdoor, Modular Design**
- **Digital Ready**

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 Specifications[1]

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OTX-001

Input Frequency:	54 to 550 MHz
Nominal Input Level (35 channel loading):	+20 dBmV (-29dBm)
Output Frequency[2]:	12.7 to 13.25 GHz
Output Level for 65 dB C/CTB :	<table><tr><th>Channels</th><th>dBm/Channel</th><th>C/N (dB)</th></tr><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></table>
Nominal 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:	-40° to 120°F (-40° to 49°C)
Humidity:	100% max.
Primary Power:	60/120/240 VAC @ 50/60Hz or 12/24 VDC (per customer spec)
Power Consumption:	75 VA RMS
Weight:	50 lbs. (22.7 kg)
Dimensions:	16"H x 13"W x 7"D (40.6 x 33 x 17.8 cm)

[1] Specifications subject to change without prior notice.

[2] For Group C. Other frequencies available

[3] Gain may be varied with 10 dB attenuator.