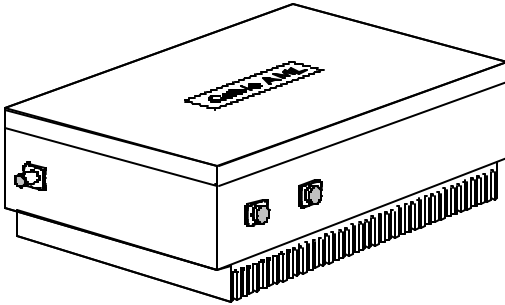


## OAR-001 OUTDOOR BROADBAND REPEATER



- ◆ **Broadband Repeater with 80 Channel Capability**
- ◆ **Modular Design, Upgradeable**
- ◆ **Output for Booster Amplifier**
- ◆ **Digital Ready**

### PRODUCT APPLICATION:

The OAR-001 Repeater is an on-frequency repeater designed to bypass line-of-sight obstacles between desired transmitter and receiver locations by amplifying an incoming signal from the main transmitter and re-transmitting it in one or more directions.

With a capacity of up to 80 channels, the OAR-001 can feed several receivers and one local booster amplifier simultaneously.

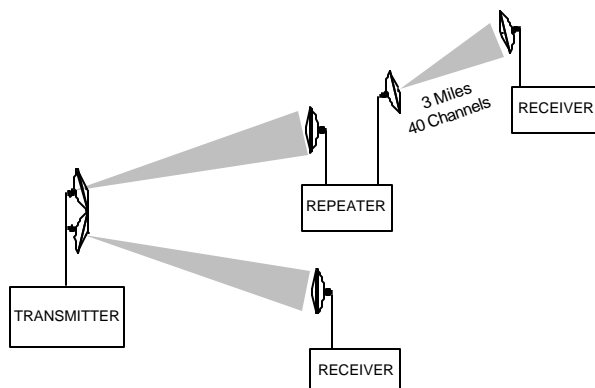
The repeater's capability to drive a booster amplifier with a high quality signal makes it

possible to significantly increase the effective range of the repeater and/or the number of receivers fed from the repeater site.

The OAR-001 features operating diagnostics such as output signal level monitoring and power supply voltages as well as a local drop to facilitate connection to an on-site receiver.

The repeater incorporates an Automatic Gain Control (AGC) circuit for gain control and adjustment and state-of-the-art Solid State GaAs amplifiers (LNA at the input and Power Amplifier at the output) for best reliability and performance.

Designed for many years of trouble-free operation in an outdoor environment, the OAR-001 can be easily upgraded to the higher power OAR-005 repeater to accommodate additional requirements for more receiver sites or higher channel loads.



## OAR-001

Repeater													
Output Frequency <sup>2</sup> :	12.7 to 13.2 GHz												
Noise Figure:	7 dB												
Output Level for 65 dB C/CTB:	<table border="1"> <thead> <tr> <th>Channels</th> <th>dBm/Channel</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>-8.0</td> </tr> <tr> <td>21</td> <td>-10.0</td> </tr> <tr> <td>35</td> <td>-12.5</td> </tr> <tr> <td>60</td> <td>-15.0</td> </tr> <tr> <td>80</td> <td>-16.0</td> </tr> </tbody> </table>	Channels	dBm/Channel	12	-8.0	21	-10.0	35	-12.5	60	-15.0	80	-16.0
Channels	dBm/Channel												
12	-8.0												
21	-10.0												
35	-12.5												
60	-15.0												
80	-16.0												
Nominal Gain:	32 dB												
Gain Flatness:	±1 dB												
AGC Range:	20 dB												
Input Connector:	WR-75 Waveguide												
RF Output Connector:	WR-75 Waveguide												
Remote Monitor Output Connector:	MS3112E14-15P												
Power Input Connector:	Dependent upon line voltage												
Temperature Range:	-40° to 122°F (-40° to 50°C)												
Power Input:	60/120/240VAC @ 50/60Hz or 12/24VDC (per customer spec)												
Power Consumption:	75 VA RMS												
Mounting:	Antenna Pole												
Weight:	46 lbs. (21 kg)												
Dimensions:	16"W x 12"H x 7"D (48.26cm rack width x 17.78cm H x 50.88 cm D)												

<sup>1</sup> Specifications subject to change without prior notice.

<sup>2</sup> For Group C. Other frequencies available