



## OAR-002 OUTDOOR BROADBAND REPEATER

- **Broadband Repeater with 80 Channel Capability**
- **6 Mile (10 Kilometer) Range**
- **Modular Design**
- **Upgradeable to Higher Power**
- **Digital Ready**

### PRODUCT APPLICATION:

The OAR-002 Repeater is an on-frequency repeater designed to bypass line-of-sight obstacles between transmitter and receiver locations. It works by amplifying an incoming signal from the main transmitter and re-transmitting it in one or more directions.

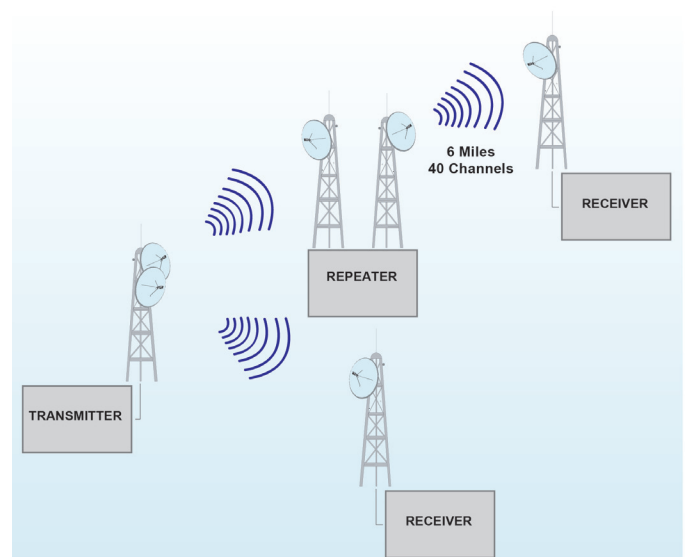
With a capacity of up to 80 channels, the OAR-002 can feed several receivers and one local booster amplifier simultaneously.

The capability to drive a booster amplifier with a high quality signal makes it possible to increase the number of receivers fed from the repeater site.

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

The OAR-002 features operating diagnostics such as output signal level monitoring and power supply voltages as well as local VHF drop to facilitate connection to an on-site receiver.

Designed for many years of trouble-free operation in an outdoor environment, the OAR-002 can be easily upgraded to the higher power OAR-005 repeater to accommodate additional requirements for more receiver sites or higher channel load.



# Product Specification<sup>1</sup>

# CABLE AML

<b>Repeater</b>											
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>-1.0</td></tr><tr><td>21</td><td>-3.5</td></tr><tr><td>35</td><td>-6.0</td></tr><tr><td>60</td><td>-8.5</td></tr></tbody></table>	Channels	dBm/Channel	12	-1.0	21	-3.5	35	-6.0	60	-8.5
Channels	dBm/Channel										
12	-1.0										
21	-3.5										
35	-6.0										
60	-8.5										
Normal Gain:	35 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)										
Primary Input:	60/120/240 VAC @ 50/60 Hz or 12/24 VDC (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 (48.26 cm x 17.78 cm x 50.88 cm)										

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

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