



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 retransmitting it in one or more directions.

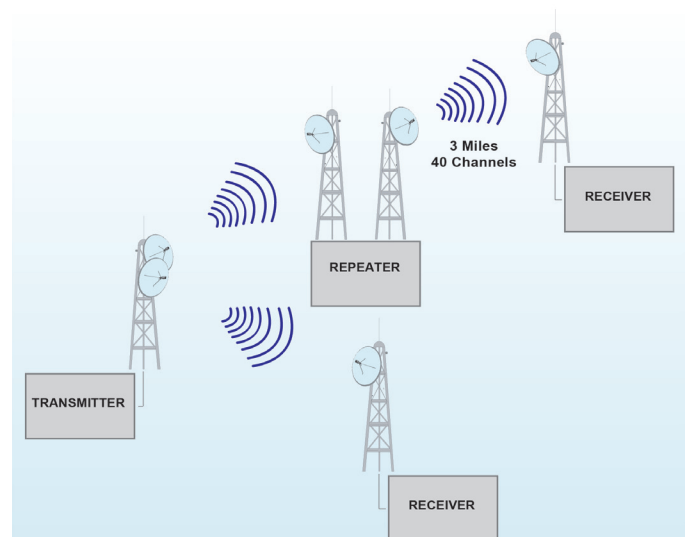
With a capacity of up to 80 channels, the OAR-001 can feed several receivers and one local booster amplifier simultaneously.

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.



Product Specification¹

CABLE AML

Repeater													
Output Frequency ² :	12.7 to 13.2 GHz												
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
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12	-8.0												
21	-10.0												
35	-12.5												
60	-15.0												
80	-16.0												
Normal 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)												
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)												

¹ Specifications subject to change without prior notice.

² For Group C. Other frequencies available.