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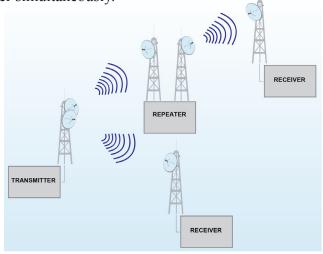
OAR18-001 OUTDOOR BROADBAND REPEATER

- Broadband Repeater with 72 Channel Capability
- Up to 1 Mile with 40-Channel Loading
- Upgradeable, Modular Design
- Digital Ready

PRODUCT APPLICATION:

The OAR18-001 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 72 channels, the OAR18-001 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 OAR18-001 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 OAR18-001 can be easily upgraded to the higher power units of the OAR18 family of repeaters.

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Product Specification¹



Repeater	
Input/Output Frequency ² :	17.70 to 18.30 GHz
Noise Figure (35 channels) ³ :	5.0 dB
Output Level for 60 dB C/CTB:	Channels Main Output dBm/Channel dBm/CH C/N(db) C/CTB(db) dBm/CH C/N(db) C/CTB(db)
	12 -2.5 59.0 60.0 -30.0 60.0 80.0
	21 -5.0 58.0 60.0 -32.0 60.0 80.0
	35 -7.5 57.0 60.0 -35.0 60.0 80.0
	72 -10.5 54.0 60.0 -37.5 60.0 80.0
Normal Gain:	40.0 dB
Gain Flatness:	±1 db
Internal Attenuator Range:	30 dB
Input Connector:	WR-42 Waveguide
Output Connector:	WR-42 Waveguide
Booster Output Connector:	WR-42 Waveguide
Temperature Range:	-40° to 130°F (-40° to 55°C)
Humidity:	100% Max
Primary Power:	60/120/240 VAC @ 50/60 Hz or 12/24 VDC (per Customer Spec)
Power Consumption:	100 VA RMS
Mounting:	Antenna Pole Mount
Weight:	50 lbs. (22.7 kg)
Dimensions:	16" W x 12" H x 7" D (48.26cm rack width x 17.78cm H x 50.88cm D)

¹ Specifications subject to change without prior notice.

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² Other frequencies available.

³ Gain may be varied with 10dB attenuator.