



DMR Series Compact Microwave Linear Translator / Repeater



- ❑ High Performance Microwave Linear Translator
- ❑ In-Band or Cross-Band Configurations
- ❑ Designed for relay of Digital Waveforms
- ❑ Automatic Operation
- ❑ L, S, and C – Band Models
- ❑ Multi-Channel Selection in 1 MHz Steps or Channelized
- ❑ Integral LNA
- ❑ Rugged Packaging

DMR Series Compact Linear Translator

DMR Series Microwave Linear Translator / Repeater

The DMR Series brings a new level of performance and reliability to tactical repeater operations. Available in L, S, and C-Bands, the DMR Series provides high quality relay of digital waveforms and is designed to relay signals from DT-100 Series digital video transmitter. The integral LNA and high-selectivity filters guarantee reliable receiver operation in harsh RF environments.

Frequency selection of both the input and output is controlled by front panel push-button selector switches in 1 MHz steps or by pre-configured channel pairs. Automatic operation conserves power consumption as the transmitter is activated only when the receiver detects a signal. The DMR Series is a linear repeater that converts the receiver IF signal to the desired transmit frequency in either in-band or cross-band configurations.

Packaged in a compact and rugged housing, the construction lends the DMR Series to applications where severe environmental conditions are the norm. The DMR Series operates from a 12 Vdc power source and is designed for rapid deployment with minimum set-up time.

The DMR Series compact repeater is well suited for tactical applications in surveillance, law enforcement, military UAV and RPV, and airborne data/telemetry.

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Technical Specifications

Electrical:

- Input/Output Frequency Ranges
 - L – 1.7 to 1.9 GHz
 - S – 2.2 to 2.5 GHz
 - C1 – 3.1 to 3.5 GHz
 - C2 – 4.4 to 5.0 GHz
- Tuning Step – 1 MHz or Channelized
- System Gain – +90 dBm
- Transmitter Power Output –
 - 0.2 W (+23 dBm)
- Isolator Protected Output
- Frequency Stability – $\pm 0.002\%$

Environmental:

- Operating temperature: -10 to +65 °C
- Relative Humidity: 0 to 95%, non-condensing

Mechanical:

- 3-pin PTO Connector – DC power
- Dimensions – 1.75 H x 9.0 W x 7.0 L inches
- Toggle Switches –
 - DC: On/Off
 - SENSE: Hi/Low
 - MODE: Test/Auto/On
- Housing – Milled Aluminum
- Weight – 4 lbs.
- RF Input Connector – Type N or SMA
- RF Output Connector – Type N or SMA

Power:

- Operating voltage: +11 - +14 Vdc
- Current: 1.6 A @ 12 Vdc nom.

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