

## M101-450-8TRM LOW LOSS UHF COMBINER

The Telewave M101-450 Low Loss UHF Combiner is a unique, fully self-contained transmitter and receiver combining system. The custom welded 24" steel frame provides a rugged enclosure for all system components. This integrated design allows channels to be added, retuned, or removed in the field at any time, without disrupting other active channels. The standard 24" x 48" rack handles up to 8 channels and 1 or 2 antennas.

10-inch High-"Q" cavities with dual isolators provide 80 dB isolation between channels, and the optional receiver panel can drive as many as 64 receivers from a single antenna. The PM8C2S wattmeter panel allows forward or reverse power monitoring for each channel, or total power to each antenna. Up to 8 transmitters can be remotely keyed with front panel switches. All components in this system are passive, except the optional receiver amplifier.

### FEATURES

- ALL TUNING FROM FRONT
- 8 TRANSMITTERS INTO ONE ANTENNA
- UP TO 64 RECEIVERS FROM ONE ANTENNA
- SELF-CONTAINED, BUILDING BLOCK CONCEPT
- LESS THAN 3 dB INSERTION LOSS WITH PROPER FREQUENCY SELECTION
- ALL CONNECTIONS AT TOP OF RACK
- 80 dB TX TO TX PROTECTION
- 130 dB RX INTERMOD PROTECTION WITH RX PNL.
- RF POWER MONITORING FOR ALL CHANNELS AND ANTENNA
- REMOTE TX KEYING
- FIELD TUNABLE



**M101-450-8TRM-8R**  
(with optional preselector and receiver panel)

### SPECIFICATIONS

Frequency range	400-512 MHz
Channels	1-8 channels into 1 or 2 antennas
Channel separation (min)	250 KHz
Input power (max)	150 watts per channel
Impedance / Input VSWR (typ.)	50 ohms / 1.25:1
Insertion loss per ch. (typ.)	2.8 dB at 275 KHz spacing
TX-to-TX isolation (typ.)	80 dB
Antenna to TX isolation (typ.)	75 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	10" diameter / 1/4 wave
Operating temperature	-30°C to +60°C
Mounting / Connectors	24" rack mount / N Female
Dimensions (HWD) in. (cm)	48 x 24 x 24 (122 x 61 x 61)
Weight lb. (kg)	150 (68.1)