

## M101-900-10TRMH

### HIGH CAPACITY 900 MHz HYBRID COMBINER

The Telewave 900 MHz Hybrid Trunking Combiner is the industry leader for excellence in hybrid combiner technology. This design allows any transmitter frequency spacing, even transmitters on the same frequency for hot standby.

The passive combining design reduces maintenance requirements, and allows simple reconfiguration of antennas to meet system coverage requirements.

The rack mount ten-channel combiners are field expandable to twenty channels. Expansions are accomplished by the addition of the pre-tuned duplexer cavity panels. Modular building block construction means no specialized test equipment is required. All components are easily accessible from the back of the rack

The M101-900 combiner systems are priced as a complete transmitter combining package, with a 19" steel rack, receiver distribution system with preselector, sideband filters as needed, and power monitoring.

RF power metering is a standard feature. All forward and reverse power measurements are switchable for each transmitter. Up to five antennas can be monitored for VSWR. Convenient remote transmitter keying is included on the wattmeter panel.

The advanced design of the Telewave hybrid combiner assures maximum long-term system performance. Special high power combiners up to 250 watts are available upon request.



M101-900-15TRM

TRANSMITTER COMBINER		RECEIVER SYSTEM	
Frequency range	896-941 MHz	Frequency range	896-941 MHz
Channel separation (min)	12.5 KHz	Port isolation (typ.)	25 dB
Input power (max)	150 watts per channel	Power input	120 or 240 VAC +15 VDC
Temperature	-30°C to +60°C	3rd Order int. (typ.)	+36 dB
TX to TX isolation (typ.)	100 dB	Noise figure (typ.)	2.5 dB
Antenna to TX isolation (typ.)	80 dB	System Gain (typ.)	+4 to +6 dB
<b>Insertion loss (typ) 5 Antenna System (4 TX and 1 RX)</b>		Temperature	-40°C – +60°C
3.1 dB (2 channels to each TX or 2 channels duplexed to RX ant.)		Connectors	N Female
<b>3 Antenna System (2 TX and 1 RX Ant)</b>		Channels	8-32
6.3 dB (4 channels to each TX)		Mounting	19" Rack mount
3.1 dB (2 channels duplexed to RX ant.)		Test port	-20 dB
<b>2 Antenna System (1 TX and 1 RX)</b>			
9.3 dB (8 channels to TX ant.)			
<b>Note:</b> Add 0.4 dB for each isolator, duplexer or sideband filter.			