TELEWAVE, INC.

896 - 941 MHz

M101-900-10TRM

LOW LOSS 900 MHz HYBRID COMBINER

The Telewave 900 MHz Hybrid Trunking Combiner is the industry leader for excellence in hybrid combiner technology. Ease of installation and maintenance is accomplished by convenient access to all components.

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	
Frequency range	896-941 MHz
Frequency spacing (min)	12.5 KHz
Input power (max)	150 watts per channel
Temperature	-30°C to +60°C
TX to TX isolation	100 dB (min)
Antenna to TX isolation	80 dB
Insertion loss (typ) 5 Antenna System (4 TX and 1 RX)	
3.1 dB (2 channels to each TX or 2 channels duplexed to RX ant.)	
3 Antenna System (2 TX and 1 RX Ant)	
6.3 dB (4 channels to each TX) 3.1 dB (2 channels duplexed to RX ant.)	
2 Antenna System (1 TX and 1 RX)	
9.3 dB (8 channels to TX ant.)	
Note: Add 0.4 dB for each isolator, duplexer or sideband filter.	

RECEIVER SYSTEM	
Frequency range	896-941 MHz
Port isolation (typ.)	25 dB
Power input	120 or 240 VAC +15 VDC
3rd Order int. (typ.)	+36 dB
Noise figure (typ.)	2.5 dB
System Gain (typ.)	+4 to +6 dB
Temperature	-40°C – +60°C
Connectors	N Female
Channels	8-32
Mounting	19" Rack mount
Test port	-20 dB