

M107-860-5TRM-HP, 10TRM-HP COMPACT HIGH POWER TRUNKING COMBINER

The Telewave.io M107-860-5TRM-HP Low Loss High Power Combiner is designed for trunking applications up to 175 watts per channel, with up to 10 channels per rack.

The combiner uses 7-inch, $\frac{3}{4}$ wave cavities, and channel expansion or maintenance can be performed without disruption of the system. RF power metering is switchable for forward and reverse directions for each transmitter and antenna. Convenient remote transmitter keying is included on the RF wattmeter panel.

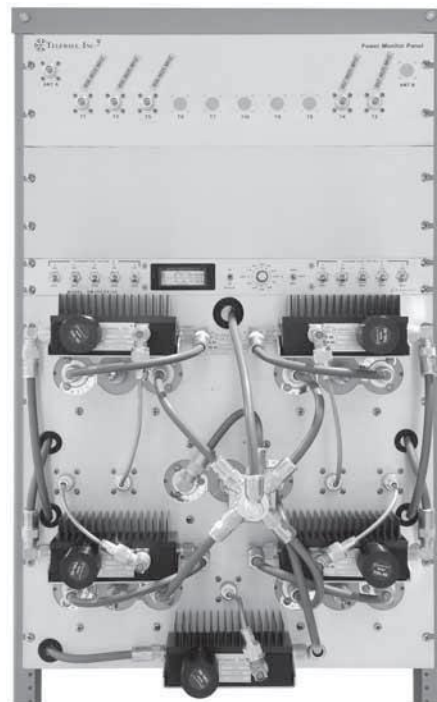
All high-power trunking combiners are shipped in a 19" x 72" Rack, with power monitoring, wattmeter panel with remote keying, 175-watt isolator, and -50 dB sampler on 2nd stage isolator load port (75-watt load). Input connectors are N Female, and output is 7-16 DIN-F. Standard cabling is high-temp RG- 393.

FEATURES

- FIELD TUNABLE
- 10 TRANSMITTERS INTO ONE ANTENNA
- POWER MONITORING FOR ALL CHANNELS AND ANTENNA
- -50 dB RF OUTPUT POWER SAMPLER - EACH CHANNEL

OPTIONS

- RECEIVER PANEL - 1RU
- 500-WATT DUPLEXER - 15 MHz PASSBAND w/ 7-16 DIN
- RG-393 PHASING HARNESS WITH 7-16 DIN CONNECTORS FOR (2) 5-CHANNEL PANELS
- HIGH POWER 5-WAY 7-16 DIN JUNCTION



SPECIFICATIONS

Frequency range	851-869 MHz
Channels	1-10 channels into 1 or 2 antennas
Channel separation (min)	250 KHz
Input power (max)	175 watts per channel
Impedance / Input VSWR (typ.)	50 ohms / 1.25:1
Insertion loss per ch. (typ.)	2.2 dB - 5 ch. at 1 MHz spacing
	4.25 dB - 5 ch. at 250 KHz spacing
	3.2 dB - 10 ch. at 500 KHz spacing
TX-to-TX isolation (typ.)	85 dB
Antenna to TX isolation (typ.)	80 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	7" diameter / $\frac{3}{4}$ wave
Operating temperature	-30°C to +60°C
Mounting / Connectors	19" rack mount / N Female, 7-16 DIN
Panel dimensions (HWD) in. (cm)	17.5 x 19 x 17 (44.5 x 48 x 43)
Weight lb. (kg)	150 (68.1) 5 ch.