

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

The Telewave 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.

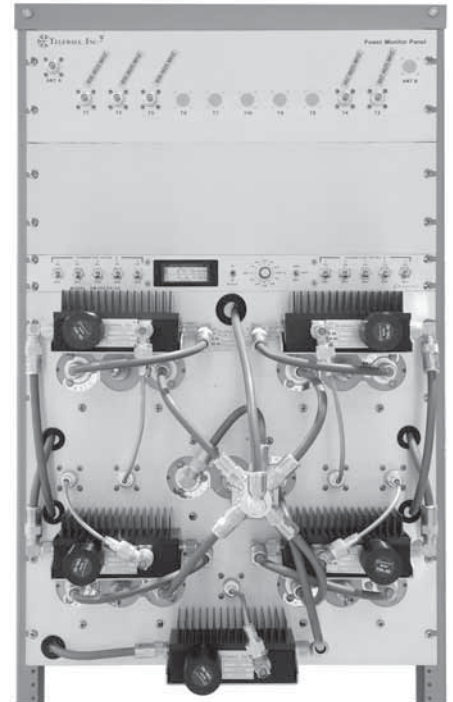
All high power trunking combiners are shipped in a 19" x 72" Rack, with power monitoring, wattmeter panel with remote keying, 175 watt isolator, and -50 dB sampler on 2nd stage isolator load port (75 watt load). Input connectors are N Female and output is 7-16 DIN-F. Standard cabling is high-temp RG-393.

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. |