

## M108-760-10TRM

### LOW LOSS 700-800 MHz COMBINER

The Telewave.io M108-760-TRM transmitter combiner covers 746-806 and 800-869 MHz. This combiner features 8-inch,  $\frac{3}{4}$ -wave cavities for close channel spacing, and allows 700 and 800 MHz channels to be provisioned in the same rack.

Each combiner covers a single band and is a modular unit on a 24.5-inch panel. Each 19-inch rack combines up to 10 channels into a common antenna, with optional duplexer, preselector, and receiver distribution. Individual channels are field-replaceable within the applicable band without causing downtime to other channels.

Optional power monitoring for each channel is available, as well as remote keying for each transmitter. The PM10C2S-1C wattmeter panel uses only 1.75" of rack space.

An optional receiver system can be built around the Telewave.io compact preselector series, or full-size cavities as needed. Depending on the application, the TPCP-7644 preselector may be mounted in the upper portion of a 72" or 84" rack, and a 1RU receiver panel with 8 or 16 channels.

Narrowband 700 MHz spectrum provides Public Safety system operators with new channels for capacity expansion. The M108-760-TRM series allows operators to flexibly deploy spectrum resources in 700 and 800 MHz bands, at new or existing sites.

SPECIFICATIONS	
Frequency ranges	746-806, 800-869 MHz
Channels	1-10 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.)	4.25 dB - 5 ch. at 250 KHz spacing 4.8 dB - 10 ch. at 250 KHz spacing
TX-to-TX isolation (typ.)	80 dB
Antenna to TX isolation (typ.)	75 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	8" diameter / $\frac{3}{4}$ wave
Operating temperature	-30°C to +60°C
Mounting / Connectors	19" rack mount / N Female
Panel dimensions (HWD) in. (cm)	24.5 x 19 x 16 (62 x 48.3 x 40.6)
Weight lb. (kg)	150 (68.1)

