



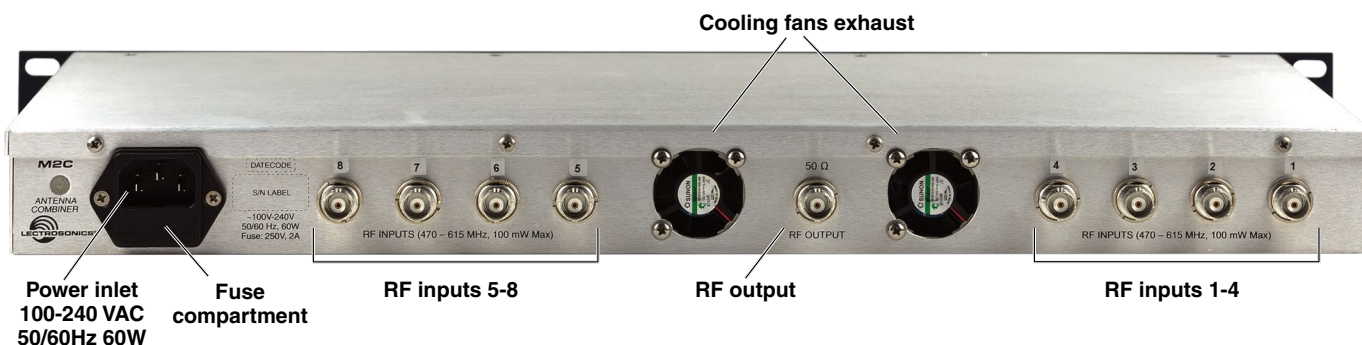
## Active Antenna Combiner



- Combines up to eight transmitter RF output signals to feed a single antenna
- Frequency range 470 to 614 MHz
- High overload components minimize intermodulation products
- Up to 100mW input on each port
- Efficient architecture for low power consumption
- USB port for firmware updates
- Front panel LEDs indicate active channel
- Made in the USA

The M2C active antenna combiner is designed as an ideal matching component to Lectrosonics digital transmitters. Up to eight transmitters can feed a single antenna to minimize cabling in multi-channel systems. The inputs are isolated to minimize crosstalk and IM (intermodulation) between RF channels.

The overall architecture of the design provides excellent performance with low power consumption and heat buildup. Front panel indicators display active status of RF inputs. A USB port on the front panel is provided for firmware updates.



## Specifications

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| RF frequency range:                    | 470 to 614 MHz                                             |
| Input impedance:                       | 50 ohm                                                     |
| Output impedance:                      | 50 ohm                                                     |
| Input connectors:                      | (8) BNC; 50 ohm                                            |
| Output connector:                      | BNC; 50 ohm                                                |
| RF gain:                               | 0dB                                                        |
| Indicators:                            | LEDs; glow green when signal present; blink red with fault |
| RF input threshold for LED indication: | 5dBm                                                       |
| Operating temperature range:           | -20 to 50° C                                               |
| Power requirements:                    | 100-240 VAC; 50/60 Hz                                      |
| Power consumption:                     | 60W maximum                                                |
| Power inlet fuse:                      | 250 VAC, 2A                                                |
| Dimensions:                            | 19.00 x 1.75 x 9.50 in.<br>483 x 45 x 241 mm.              |

## Block Diagram

### M2C Combiner Block Diagram

