

RX

## Omega-16 Multizone Receive Distribution



- 4 Diversity Antenna Inputs (8 Total)
- 16 Diversity Outputs (32 Total)
- RF Filtering
- Adjustable attenuation from 0 to -40 dB for each antenna input
- Selectable bias power for each antenna input
- Dual redundant power supplies
- Internal Power Supply
- Rugged 1RU Chassis w/ Reinforced Rack Ears

**Input Voltage:** 100-240 VAC, 50-60 Hz  
**Aux Input Voltage:** 15 VDC  
**RF Interface:** BNC (F)  
**Power Indicators:** Blue - ON

**Bias Circuit Protection Indicator LEDs:**  
 Green - Load connected w/ 30 mA+ draw  
 Flashing Red - Short Circuit *TURN OFF BIAS*  
**Max Cable Length for Bias Power:** 250'

The Omega Series Antenna Combiners (multicouplers) are receive antenna distribution products featuring RF filters, variable attenuation controls for each input, dual-redundant power supplies, and built-in self-protecting bias power supplies for remote line amps. The Omega Series multicouplers serve as the head end for the receive antenna system.

### Intended Use:

Antennas are connected to rear-panel input connections. Each input features overload-protected remote bias power – selectable from front panel switches. Each input has an associated variable attenuator on the front panel that is used to tailor the amount of gain from the antenna in order to balance the overall system.

The RF signals are combined, filtered, and amplified before being presented at the rear panel for connection to individual wireless receivers. Redundant main and aux power supplies limit the possibility of a power failure. External aux 15 VDC PSU w/ 4-pin XLR connector is included.



### RF Input:

The Omega-8 can receive cable runs from up to 4 diversity antenna zones, with 4xA and 4xB inputs (8 total). The inputs may be used with PWS remote line amps as well as line amps from other manufacturers. Each input has adjustable attenuation, 0dB to -10dB, or -40dB (which essentially shuts off the input).

### RF Output:

The Omega-16 has 16xA and 16xB outputs, so it is able to distribute RF signals to up to sixteen wireless receivers. Outputs are unity gain and filtered. Several frequency ranges are available as different models.



### Omega-16 Models:

**VHF (169-217 MHz)**  
**UHF (470-616 MHz)**  
**STL (940-960 MHz)**

*\*Omega-8 shown here with Shure AD4Q receivers. The Omega-16 can connect to twice as many receivers.*

