

1090 Series Medium Power FM Panel Antenna



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Medium Power FM Panel Antenna Systems

ERI's 1090 Series FM Panel Antenna Systems are designed to combine the benefits of wideband performance and versatility with low weight and windload, giving broadcasters a competitive edge in coverage performance in an antenna that can be deployed economically. Available power handling up to 150 kW makes the 1090 an excellent choice for single stations as well many multi-station applications.

Like other ERI Master FM Antenna Systems, the 1090 is a highly integrated system exhibiting broadband, low VSWR operating characteristics across the FM band. ERI's innovative antenna design and dexterous mounting provide an exceptionally versatile system well-suited to today's "real world" of dial crowding and limited available aperture space on existing structures.

The 1090 is ruggedly built, TIG welded with all-brass construction, and is designed to withstand many years of service in a harsh environment. The design incorporates ERI's field-proven cross dipole elements for circularly polarized operation. Antenna System components are custom-selected to optimize azimuth and elevation pattern performance while minimizing weight and windload for each specific requirement. Excellent circularity can be achieved in the azimuth pattern for omni-directional antenna systems, and directional patterns are also available to optimize coverage for stations licensed for directional operation.

Icing protection is achieved with the use of a fiberglass balun cover. The small surface area of this cover is largely responsible for the low windload of this antenna.

ERI's engineers work to design each 1090 Series FM Panel Antenna System to address the specific circumstances of its application, including both electrical and structural aspects. Our goal is to provide you with high performance, design flexibility, reliability, and affordability and, at ERI, we have the experience and expertise to satisfy your most challenging requirements.

- Designed for coverage – excellent azimuth and elevation pattern performance
- Minimal weight and windload
- Single station or multiple station operation
- Power handling provides ample options for flexible utilization
- Omni-directional or directional patterns