

1200 Series Low Power FM Panel Antenna

Features

- Low power unpressurized FM panel antenna
- Tunable to any single FM channel 88.1 MHz to 107.9 MHz
- Circularly polarized cross dipole design with integrated power divider and phasing loop
- Lightweight and ruggedly constructed
- Includes feed point covers for protection from rain, ice, and snow
- Includes reflector screen and mounting brackets
- Directional arrays available

The ERI 1200 Series low-power FM panel antenna systems include one or more 1200 elements. The inter-bay cabling uses foam dielectric cables and unpressurized power dividers. The antenna can be configured either as non-directional or directional FM applications. Antenna elements are constructed from lightweight and rugged aluminum, brass, and copper components. The elements are tuned and tested to the assigned frequency of the array. The 1200 FM panel elements are rated to handle up to 1 kW of input power for each panel.

ERI's 1200 Series FM Panel Antenna Systems are designed to combine the benefits of panel antenna performance and versatility with low weight and wind load, giving broadcasters a competitive edge in coverage performance in an antenna that can be deployed economically. The 1200 Series FM antennas are excellent for single station applications, on large-faced towers, or challenging directional antenna patterns for Full-Service FM Stations and FM translator and booster facilities.

The 1200 -panel elements are ruggedly built from aluminum and copper and are 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. The 1200 element features an integrated power divider and phasing loop that feeds the left and right slant dipoles, in proper phase, from a single input – this simplifies the antenna feed system and improves reliability. Antenna system components are custom-selected to optimize azimuth and elevation pattern performance while minimizing weight and wind load for each specific requirement.

All elements include a DC ground, and the screens, transmission lines, and power dividers have components to firmly bonded the antenna and its feed system to the support structure. The system design eliminates any potential of static build-up and helps protect the system from damage from lightning.



Specifications		
Frequency Range:	Any single FM channel from 88.1 MHz to 107.9 MHz	
Polarization	Right Hand Circular	
VSWR:	1.15:1, maximum	
Input Power Handling	1.0 kW per element	
RF Input	7/8-inch EIA flange	
Element Weight	35-pounds	(15.9 kilograms)