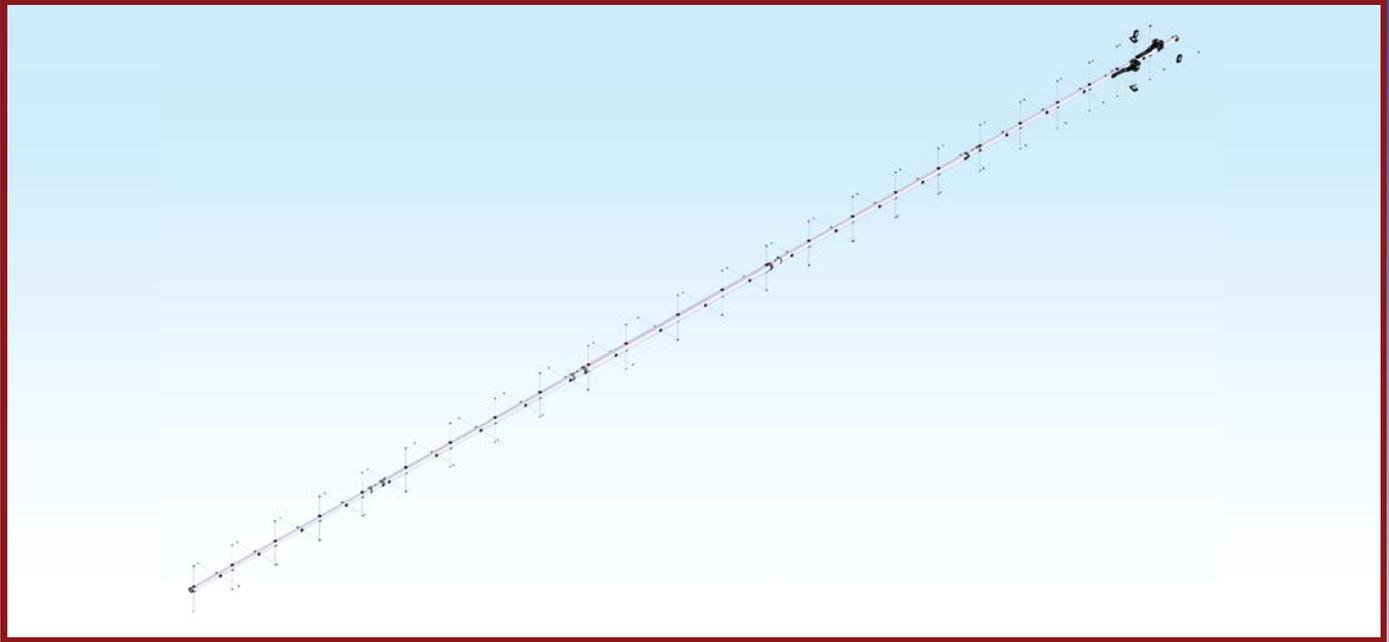




# M2 Antenna Systems, Inc.

## Model No: 432XP50



### SPECIFICATIONS:

Model .....	432XP50	Input Connector .....	"N" Female others opt.
Frequency Range .....	430 To 436 MHz	Power Handling .....	1300 W
*Gain .....	20.0 dBic	Boom Length / Dia .....	22' 6" / 1-1/2" To 1"
Front to back .....	22 dB Typical	Maximum Element Length.....	13-7/16"
Cross pol. isolation .....	>20 db Typical	Turning Radius: .....	12 ft
Beamwidth .....	19°	Stacking Distance .....	80" High & 80" Wide
Feed type .....	Folded Dipole	Mast Size .....	1-1/2" to 2" Nom.
Feed Impedance .....	50 Ohms Unbalanced	Wind area / Survival .....	2.4 Sq. Ft. / 100 MPH
Maximum VSWR.....	1.5:1	Weight / Ship Wt.....	9.5 Lbs. / 11 Lbs.

### FEATURES:

The 432XP50 has been specifically designed for EME, Satellite and long haul tropo-scatter use. The dual polarity flexibility is particularly valuable for EME where the long waits for Faraday polarity rotation are eliminated. Having polarity flexibility for Satellite and long haul tropo paths is very useful as well. This flexibility handles polarity shift due to Hills, mountains and buildings, not to mention working mobiles and modest stations with verticals. Gain and F/B are excellent. The extremely clean pattern maximizes forward gain and F/B. The pattern is important in order to match the antenna's noise temperature with modern low-noise preamps. Using the 432XP50 in an array of two or four antennas is a very small, manageable package that can make moonbounce (EME) contacts even with very modest stations like Dxpeditions!

The driven elements are CNC machined aluminum, O-ring sealed connectors assure low maintenance and long-term peak performance. Internal connections are embedded in a space-age silicone gel that seals out moisture and improves power handling. The 3/16" 6061-T6 rod elements are centered in the boom to minimize polarity interaction. Insulators are UV stabilized and locked in place with stainless retainers. The central boom section is 1-1/2" dia., tapering, front and rear, through 1-1/4" sections to 1" ends. A built in, non conductive vertical mast and Dacron cord supports the boom., M2 can supply all the parts for arrays of any size. M<sup>2</sup> makes the HPR-1, high power relay for polarity selection. M2 makes the best switching and non preamps using the latest device technology. See web site for more details

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