

### MiMOMax Panel Antenna

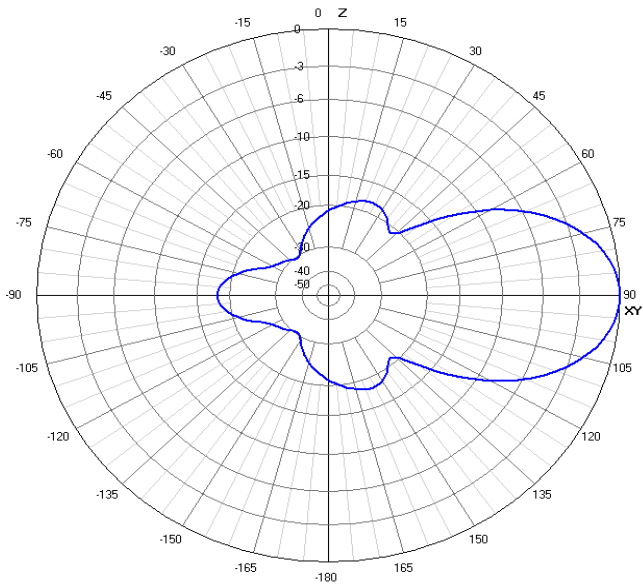
For Radio sites where high wind and ice loading is probable, a ruggedized wide band flat panel directional antenna, has been developed. MiMOMax Antennas utilise both vertical and horizontal elements, in a bi-quadrature diversity format. This provides a degree of pattern diversity over direct paths, even when only one receiver pair is used (in the full 2x4 MiMO configuration, two antennas are used to feed four MiMO receivers to provide both pattern and spatial diversity)



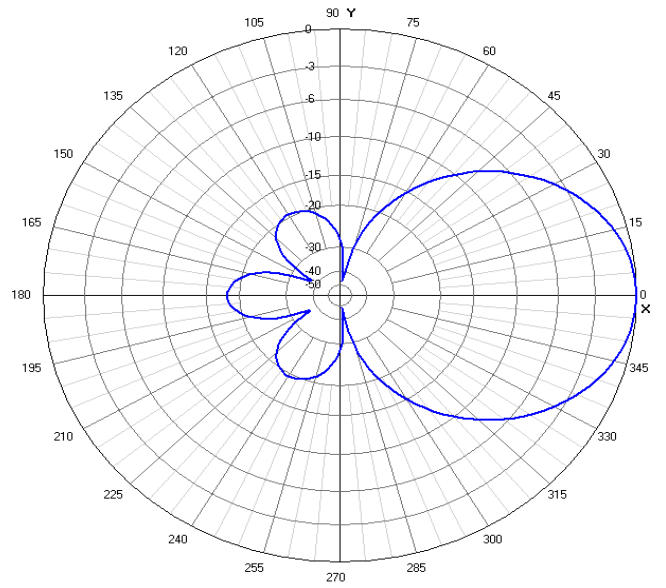
### Panel Antenna Specifications

Frequency Splits	420-480MHz
Polarisation	Horizontal and Vertical with separate feeds
Antenna Gain	>10 dBi (Typically 11.5 dBi)
Beam width (horizontal, Vertical)	60° nominal, 34° nominal
Front-to-back ratio	>15 dB
Frequency bandwidth (15dB return loss)	60 MHz
Connector arrangement	2 x Female 7/16 connectors
Max Gust Speed	250 kph
Wind loading	660N (at 150kph)
Mounting	Twin vertically spaced clamps for attachment to 48-117 mm mounting pipe. Provision for additional stabilising struts (up to 4)
Number required per link end	1 for 2 receiver MIMO, 2 for 4 Receiver MIMO
Dimensions W x H x T (direction of propagation)	600 x 1000 x 150 mm (+ mounting bracket)
Weight	17.8kg including mounting brackets

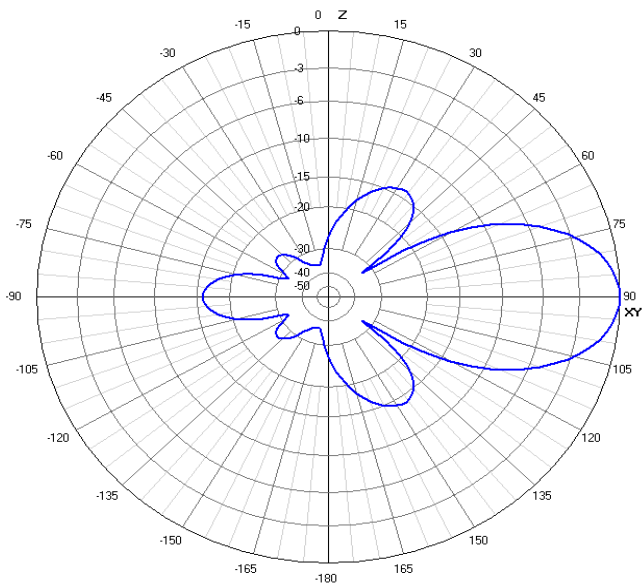
# Panel Antenna Polar Diagrams



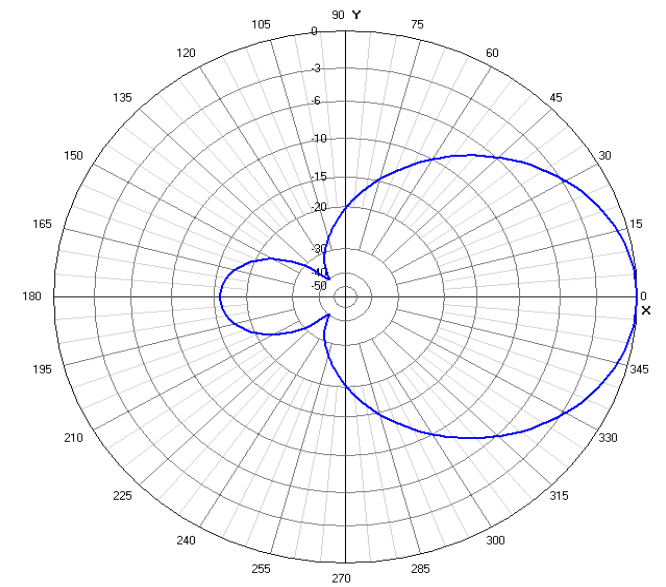
Horizontal Polarisation  
Vertical Plane



Horizontal Polarisation  
Horizontal Plane



Vertical Polarisation  
Vertical Plane



Vertical Polarisation  
Horizontal Plane