

LOW PROFILE MIMO PANEL ANTENNA ARRAY

- 12dBi / 13.5dBi / 15dBi

400 MHz Antenna Spec Sheet



The Ubiik Mimomax Low Profile MIMO Panel Antenna Array is a high-gain, rugged, compact, wide-band antenna suitable for radio sites that encounter ice, snow and strong wind loading.

Like all Ubiik Mimomax MiMO antennas, the Low Profile Panel Antenna provides independent horizontal and vertical polarizations making it suitable for a wide range of radio applications. This pattern-type diversity solution provides increased signal quality and path resilience in very challenging environments. The Low Profile Panel Antenna comes with fully enclosed radome making it a good fit for harsh weather conditions.

With a typical 12dBi, 13.5dBi, or 15dBi antenna gain and a maximum input power of 200W, the Low Profile MIMO Panel Antenna Array is a highly versatile antenna. It is ideal for long path remote radios and Point-to-Point links.

LOW PROFILE MIMO PANEL ANTENNA ARRAY SPECIFICATIONS

Electrical Specifications				
	2-Panel Vertical	2-Panel Horizontal	3-Panel Horizontal	4-Panel
Frequency Range	400-420MHz, 415-435MHz, 440-470MHz			
VSWR	<= 1.5:1 Typical			
Polarization	Horizontal and Vertical with separate feeds			
Front-to-Back Ratio	≥ 15dB			
Rated Power Input	200W			
Impedance	50Ω			
Lightning Protection	Direct Ground			
Antenna Gain	12dBi Typical	12dBi Typical	13.5dBi Typical	15dBi Typical
Beamwidth				
Azimuth	60° (H) 70° (V)	30° (H) 30° (V)	20° (H) 20° (V)	26° (H) 26° (V)
Elevation	30° (H) 30° (V)	70° (H) 60° (V)	70° (H) 60° (V)	44° (H) 44° (V)

Mechanical Specifications				
	2-Panel Vertical	2-Panel Horizontal	3-Panel Horizontal	4-Panel
Connector Type	2 x N-Female			
Material and Structure	Robust UV-ABS radome with aluminium backplate and rugged stainless-steel mounting			
Max Wind Gust	124 mi/h (200 km/h)			
Speed Wind Loading	146lbf @ 100Mi/h (650N @ 160k/h)	146lbf @ 100Mi/h (650N @ 160k/h)	219lbf @ 100Mi/h (975N @ 160k/h)	292lbf @ 100Mi/h 1300N @ 160k/h)
Weight	13 lbs (6 kg)	20 lbs (9 kg)	31 lbs (14 kg)	42 lbs (19 kg)
Assembled Array Dimensions (HxWxT)	18x37x6 inches (450x930x150mm)	18X37x6 inches (450x950x150mm)	18X61x6 inches (450x1550x150mm)	37x51x6 inches (930x1450x150mm)
Mounting (each panel)	2 clamps for attachment to 38-61mm pole	2 clamps for attachment to 38-61mm pole	2 clamps for attachment to 38-61mm pole	4 clamps for attachment to 38-61mm pole

Product Orders	
Product Code	Description
ANT-400-420-012-PD01	UHF MIMO Panel 2 x vertically stacked array, 400-420MHz, 12dBi
ANT-415-435-012-PD01	UHF MIMO Panel 2 x vertically stacked array, 415-435MHz, 12dBi
ANT-440-470-012-PD01	UHF MIMO Panel 2 x vertically stacked array, 440-470MHz, 12dBi
ANT-400-420-012-PD02	UHF MIMO Panel 2 x horizontally stacked array, 400-420MHz, 12dBi
ANT-415-435-012-PD02	UHF MIMO Panel 2 x horizontally stacked array, 415-435MHz, 12dBi
ANT-440-470-012-PD02	UHF MIMO Panel 2 x horizontally stacked array, 440-470MHz, 12dBi
ANT-400-420-013-PD03	UHF MIMO Panel 3 x horizontally stacked array, 400-420MHz, 13dBi
ANT-415-435-013-PD03	UHF MIMO Panel 3 x horizontally stacked array, 415-435MHz, 13dBi
ANT-440-470-013-PD03	UHF MIMO Panel 3 x horizontally stacked array, 440-470MHz, 13dBi
ANT-400-420-015-PD04	UHF MIMO Panel 4 x array, 400-420MHz, 15dBi
ANT-415-435-015-PD04	UHF MIMO Panel 4 x array, 415-435MHz, 15dBi
ANT-440-470-015-PD04	UHF MIMO Panel 4 x array, 440-470MHz, 15dBi

LOW PROFILE MIMO PANEL ANTENNA ARRAY PICTURES



2-Panel Horizontal, 12dBi



2-Panel Vertical, 12dBi



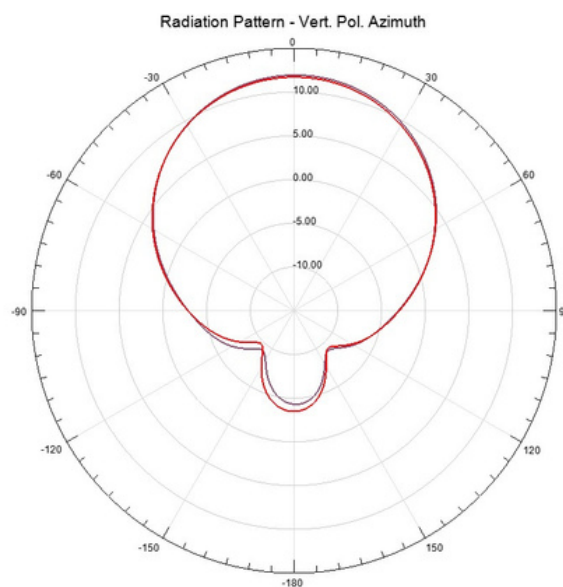
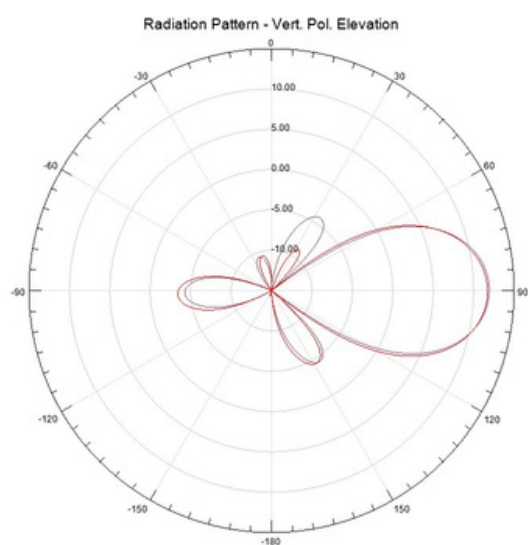
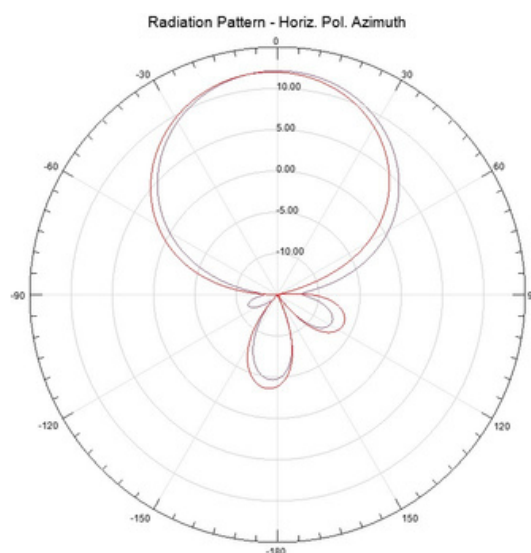
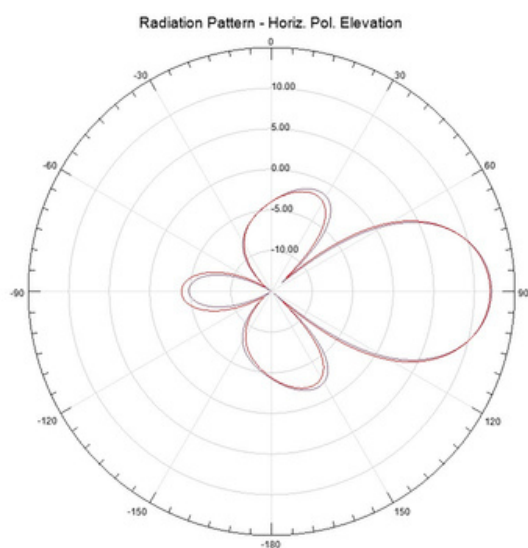
3-Panel Horizontal, 13.5dBi



4-Panel, 15dBi

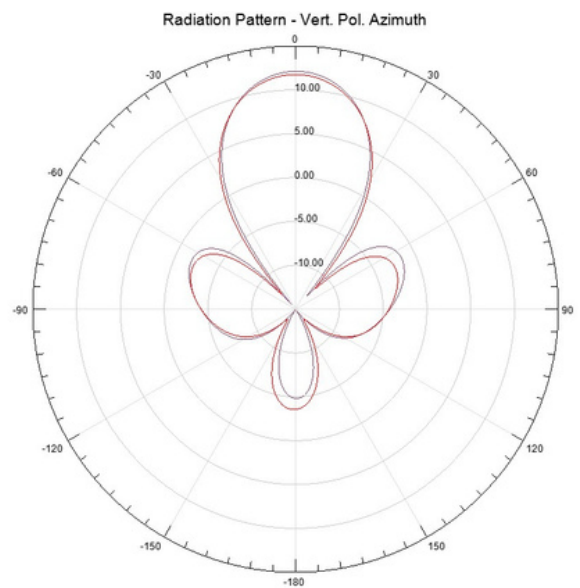
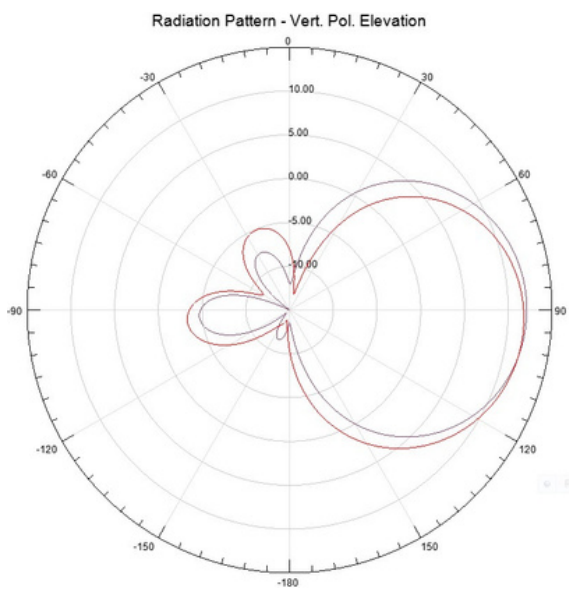
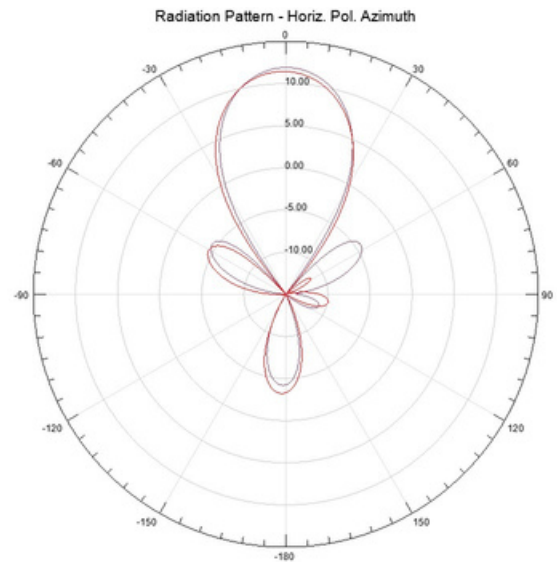
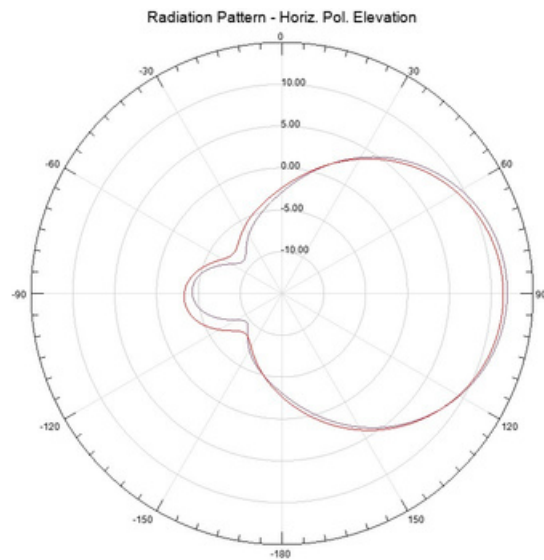
LOW PROFILE MIMO PANEL ANTENNA ARRAY RADIATION PATTERNS

2-Panel Vertically Stacked Array



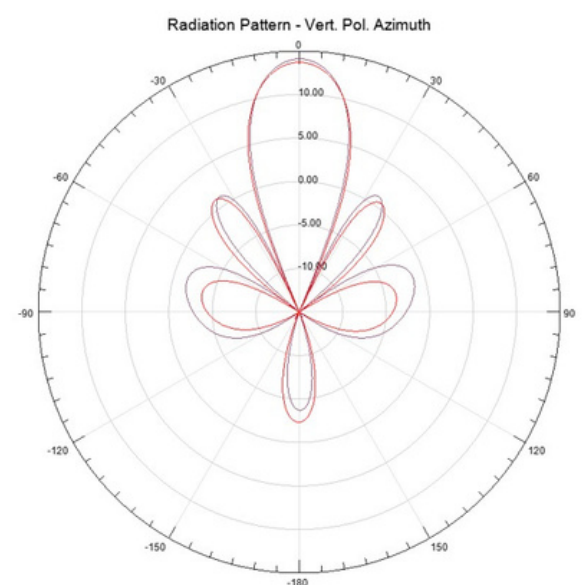
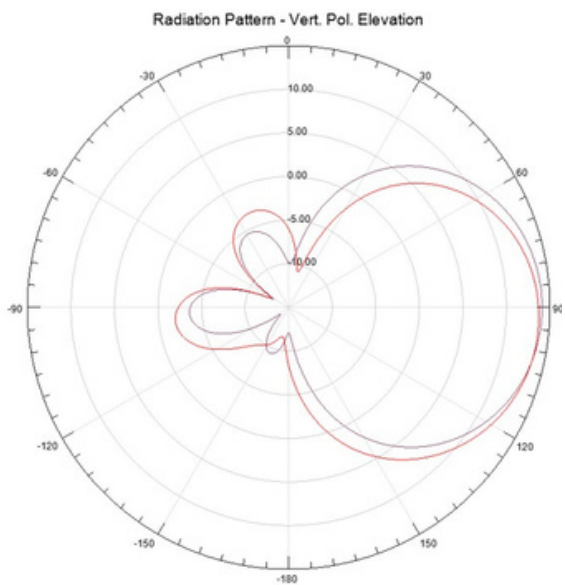
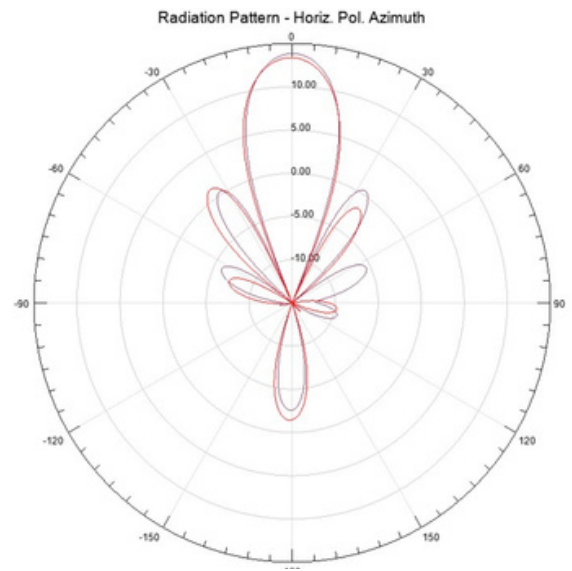
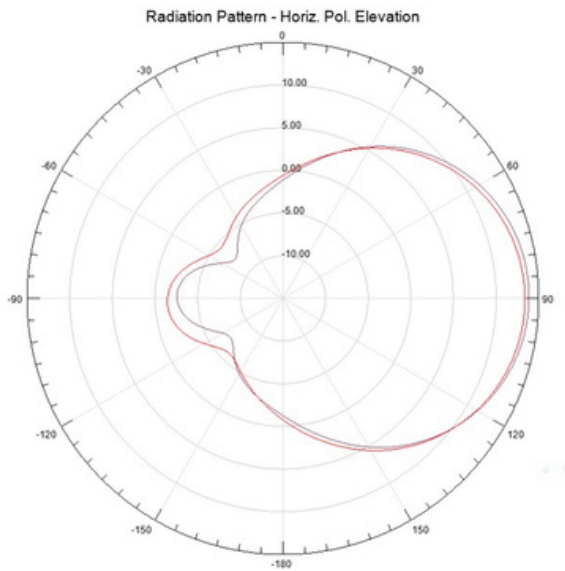
LOW PROFILE MIMO PANEL ANTENNA ARRAY RADIATION PATTERNS

2-Panel Horizontally Stacked Array



LOW PROFILE MIMO PANEL ANTENNA ARRAY RADIATION PATTERNS

3-Panel Horizontally Stacked Array



LOW PROFILE MIMO PANEL ANTENNA ARRAY RADIATION PATTERNS

4-Panel Array

