

Altelix 4-Port $\pm 45^\circ$ X-Pol 90° Sector Antenna for Mimosa A5c

- Wide Band Coverage – 4900-6500 MHz
- Cross Polarized, $+45^\circ$ / -45° Polarization
- Designed for use with Mimosa A5c
- Includes radio mounting bracket and (4) cables
- 4x4 MIMO operation



Mimosa A5c Not Included
Shown for Reference

Model: AS6G16B90XM4-AC5


AltelixTM
CONNECTIVITY EVOLVEDTM

Overview

The Altelix AS6G16B90XM4-A5C is a Plug-and-Play 4-Port 90 Degree Dual Slant Polarized +45°/-45° Sector Antenna for the Mimosa A5c. This antenna provides 4 separate ports, two +45° polarized and two -45° polarized, and all ports support 4.9 GHz - 6.5 GHz operation.

Designed for use with the Mimosa A5c

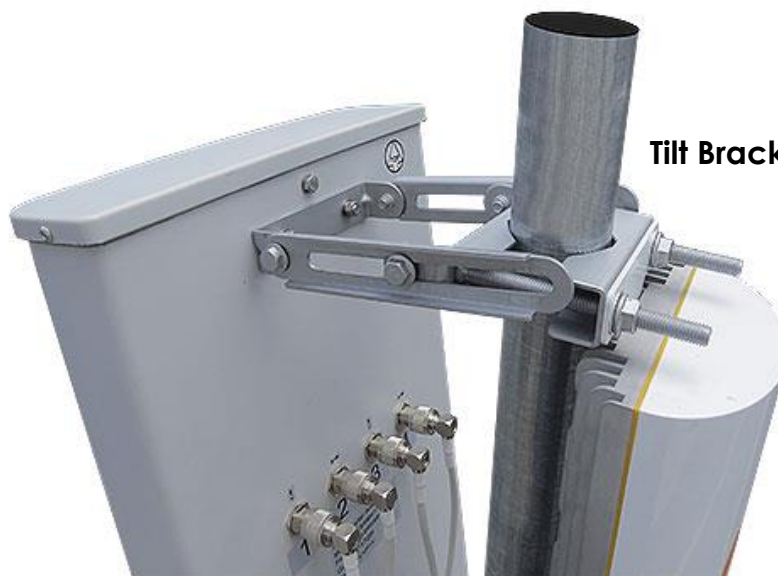
This antenna includes a mounting bracket for attaching a Mimosa A5c to the rear of the antenna, minimizing the required tower space. The kit also includes four low loss 240 series N Male to N Male cables for connecting the A5c to the antenna. When used with the Mimosa A5c an additional 3 dBi of beam forming gain can be achieved.

Features:

- Full Band Coverage - 4900 MHz to 6500 MHz
- Plug-and-Play Installation with Mimosa A5c
- When used with the Mimosa A5c an Additional 3 dBi of Beam Forming Gain can be Achieved.
- Includes (4) N Male to N Male Right Angle 240 Series Cables and A5c Mounting Bracket
- Cross Polarized, +45° / -45° Polarization (Polarization Diversity)
- 90 Degree Beamwidth
- All-Weather Outdoor Operation
- Heavy Duty Tilt Mounting Brackets

Antenna Includes:

- (1) Altelix 5 GHz 90 Degree 4-Port Slant Polarized MIMO Sector Antenna
- (1) Radio Bracket for Mounting Mimosa A5c
- (4) N-Male to N-Male R/A Low Loss 240-Series Cables



Tilt Bracket Detail

Electrical Specifications

Frequency Band	4900 MHz	5200 MHz	5500 MHz	6200 MHz	6400 MHz	6500 MHz
Gain	15.5±0.5dBi	15.6±0.5dBi	16.0±0.5dBi	15.8±0.5dBi	15.5±0.5dBi	15.5±0.5dBi
Front to Back Ratio	26dB	26dB	25dB	26dB	26dB	24dB
VSWR	≤1.8	≤1.7	≤1.7	≤1.65	≤1.7	≤1.9
Return Loss	11dB	12dB	12dB	12.5dB	12dB	12dB
Port to Port Isolation	28dB	28dB	28dB	28dB	27dB	26dB
Polarization	+45° / -45°					
Horizontal Beamwidth (3dB)	90±5°					
Horizontal Squint	2°					
Vertical Beamwidth (3dB)	10±2°					
Impedance	50 Ohm					
Maximum Power	100W					
Lightning Protection	DC Ground					

Mechanical Specifications

Connectors	(4) Type N Female					
Connector Location	Rear of Radome					
Radome Material	UV Resistant PVC					
Operating Temperature	-40°F to +140°F (-40°C to +60°C)					
Maximum Wind Velocity	130mph (210Km/h)					
Wind Loading Data						
Wind Speed (MPH)	100			120		
Loading	77 lbs.			122 lbs.		

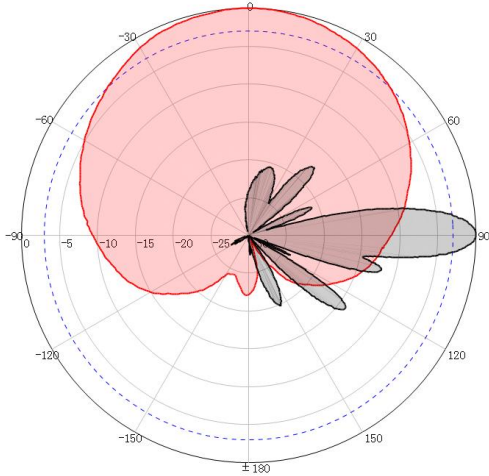
Bracket Specifications

Material Type	Galvanized Steel					
Mechanical Tilt	0-15 Degrees					
Mounting Type	Pole Mount					
Mounting Pole Diameter	1.6 – 2.4 inch (40 – 60 mm)					

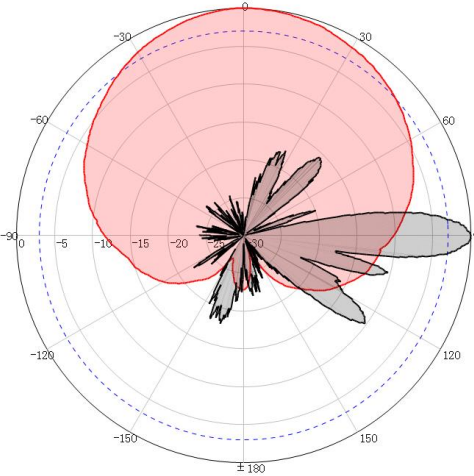
Dimensions

Length	19.6 inch (498.4mm)					
Width	11.2 inch (285.7mm)					
Height	3.6 inch (92mm)					
Weight	5.5 lbs. (2.5Kg)					

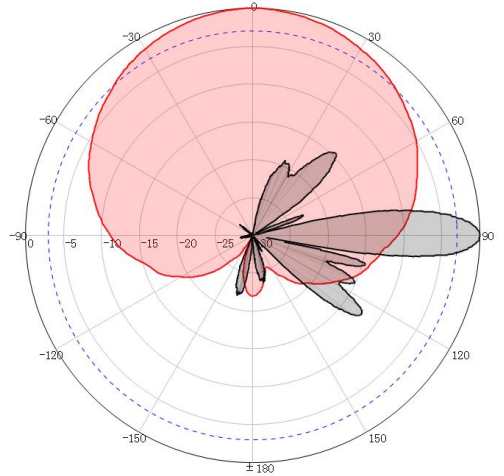
Antenna Patterns – +45° Polarization



4900 MHz

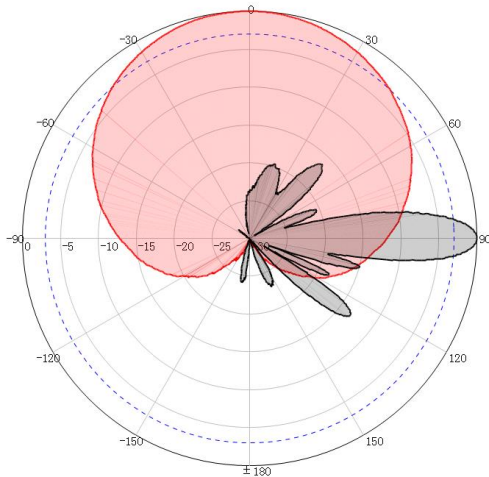


5200 MHz

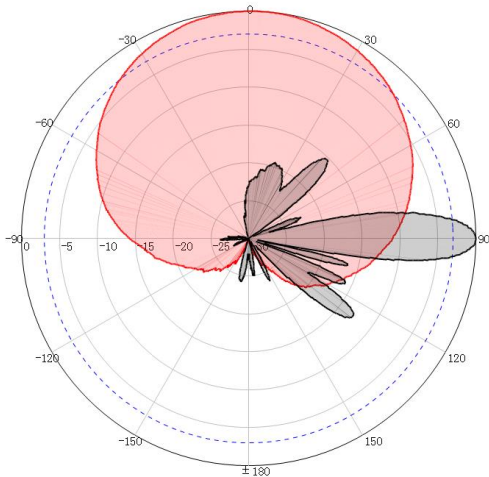


5500 MHz

— H-Plane
— V-Plane

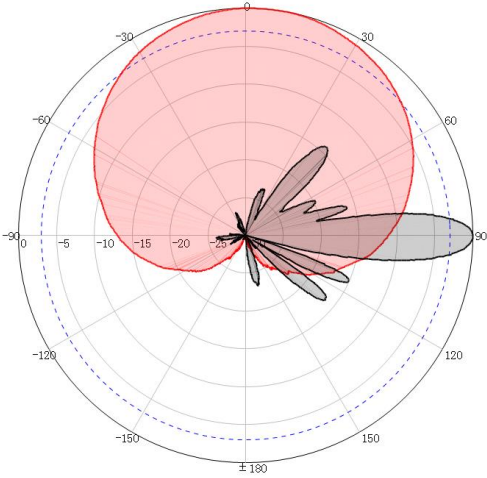


6200 MHz

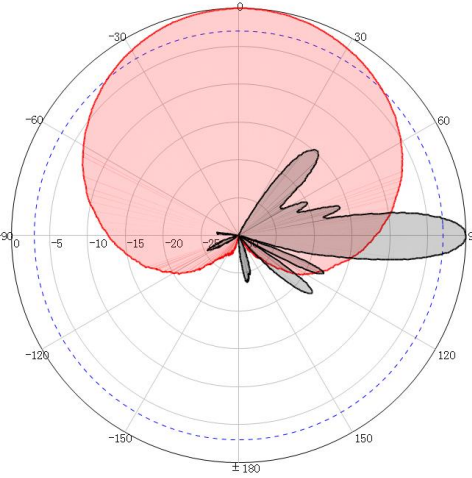


6400 MHz

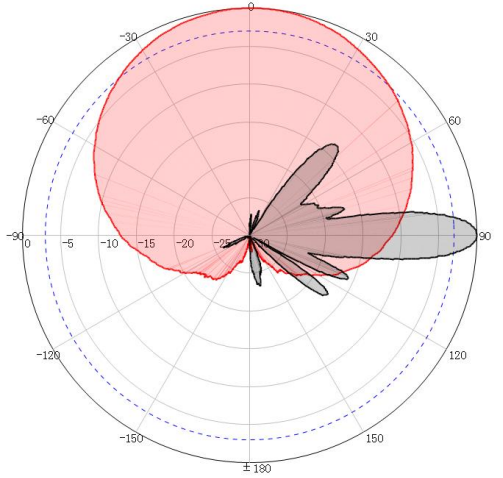
Antenna Patterns – -45° Polarization



4900 MHz

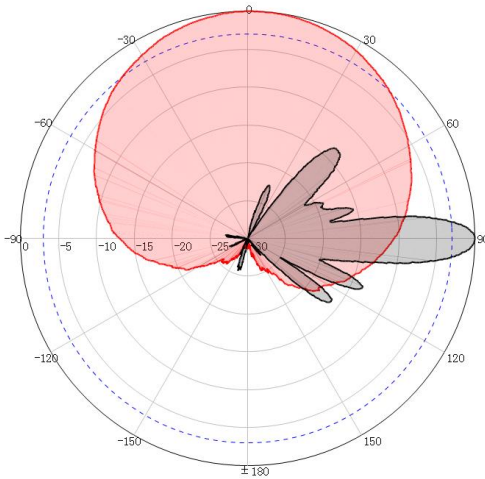


5200 MHz

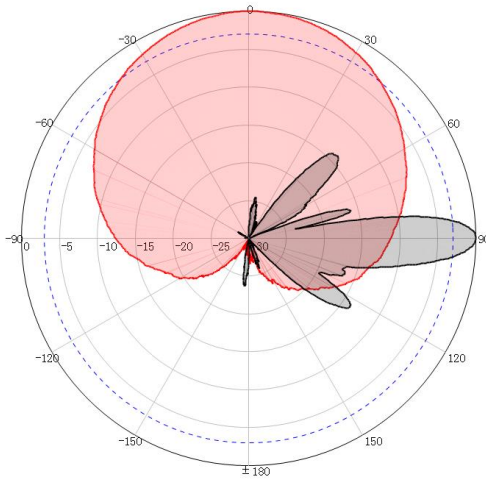


5500 MHz

— H-Plane
— V-Plane



6200 MHz



6400 MHz