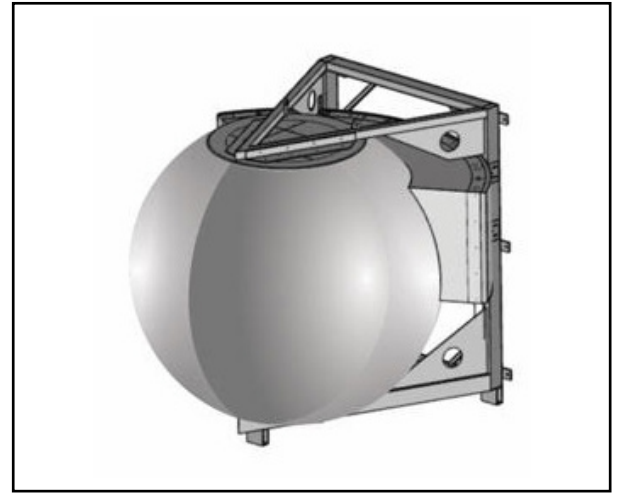
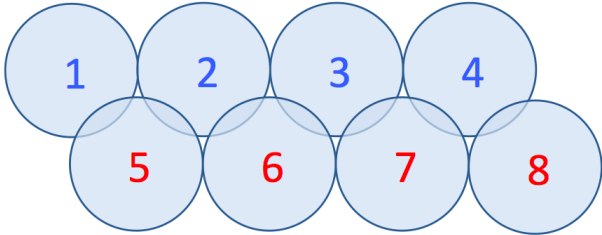


MS-8L120

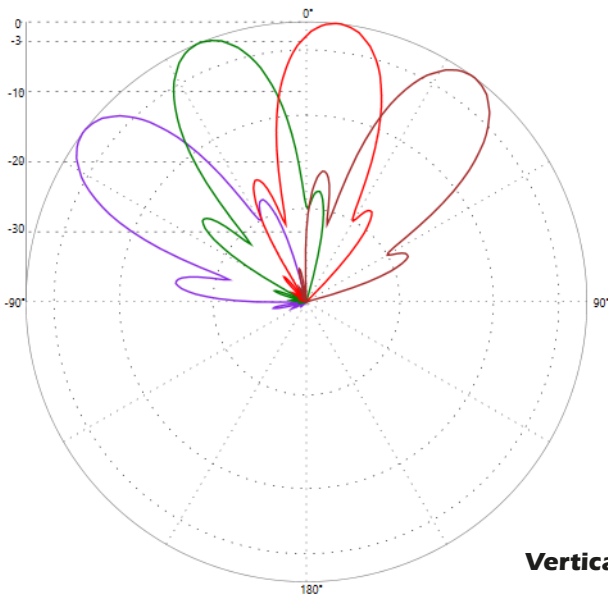
Multi-Beam Spherical Lens Antenna: 8 independent low-frequency (698 - 960 MHz) cross-polarized beams with 2X2 MIMO support per beam.

BEAM LAYOUT:

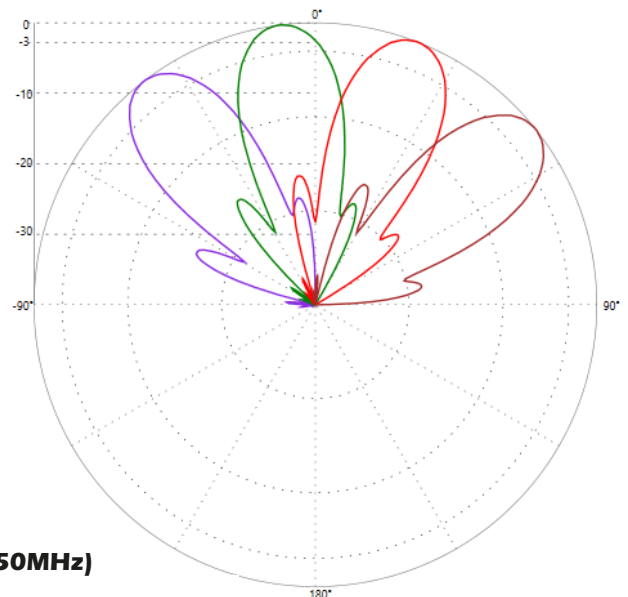


PATTERN RESULTS (3.6GHz):

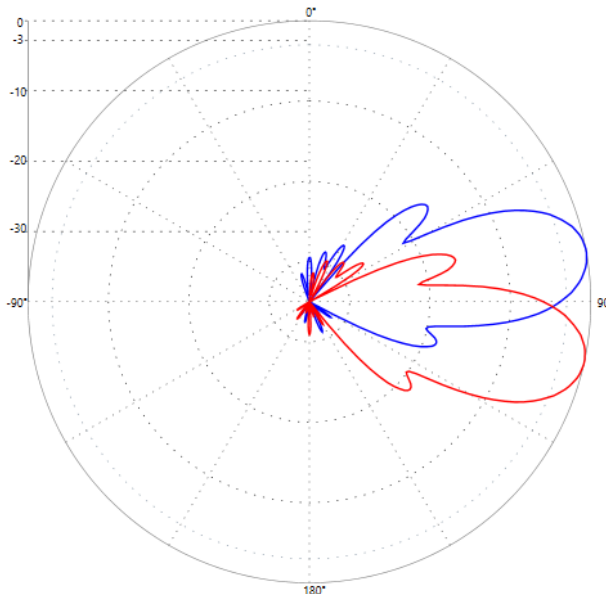
Horizontal Pattern Row 1 (850MHz)



Horizontal Pattern Row 2 (850MHz)



Vertical Pattern (850MHz)



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	698 - 960 MHz
Gain	19dBi
VSWR	<1.5:1
Polarization	Dual Slant ±45°
Horizontal Coverage per row Total coverage	120° 135°
Horizontal Beamwidth (10dB level) Horizontal Beamwidth (3dB level)	30° 17°
Vertical Beamwidth (10dB level) Vertical Beamwidth (3dB level)	30° 17°
Beam Cross-over	10dB typical
Total Number of Beams	8
Tilt	(Factory Set)
First Sidelobe level	<-15dB
Front to Back Ratio	>28dB
Isolation Port to Port - Polarization	>28dB
Isolation Port to Port - Beam	>26dB
Power Rating	250W per port
Intermodulation	<-153dBc
Impedance	50 ohm
Connector Quantity and Type	16 x 4.3-10 female

MECHANICAL DATA

Dimensions (H x W x D)	Spherical Lens diameter: 120cm/47inch Antenna dimensions: 140 x 140 x 160 cm 55 x 55 x 62 inch
Antenna Weight	220 kg 485 lbs
Radome Material	Fiber Glass
Mounting	2 position pipe mount Compatible pipe diameter: 6.1 – 11.4 cm 2.4 – 4.5 inch

ENVIRONMENTAL RATINGS

Humidity	95% RH @ +30°C
Temperature	-40°C to +70°C
Wind load (Front)	959N @ 150km/hr 216lbf @ 150km/hr

SAMPLE CONNECTOR LAYOUT:

