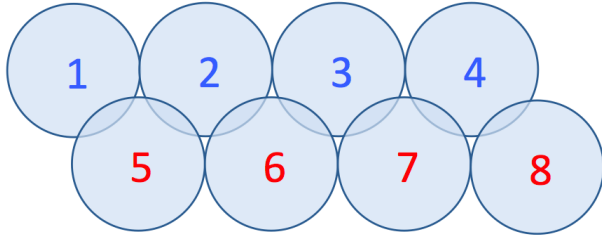


MS-8T120

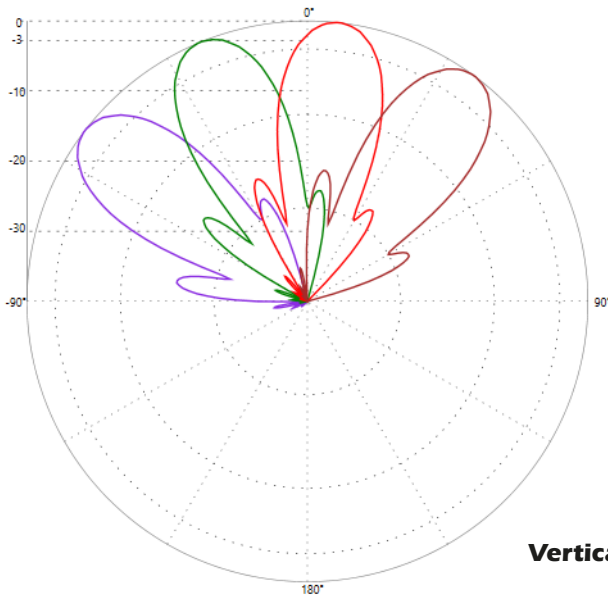
Multi-Beam Spherical Lens Antenna. Eight independent low-frequency (617-896MHz) cross-polarized beams with 2X2 MIMO support per beam.

BEAM LAYOUT:

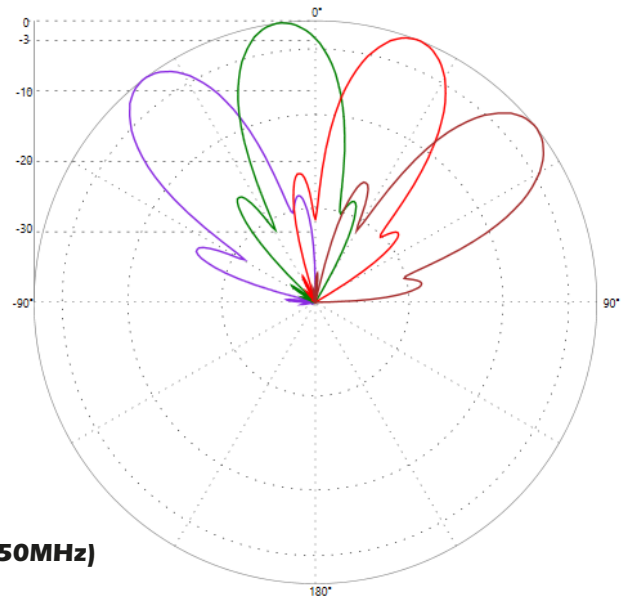


PATTERN RESULTS:

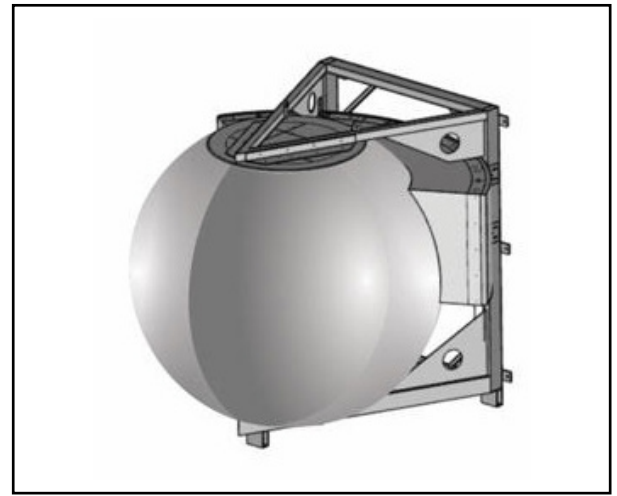
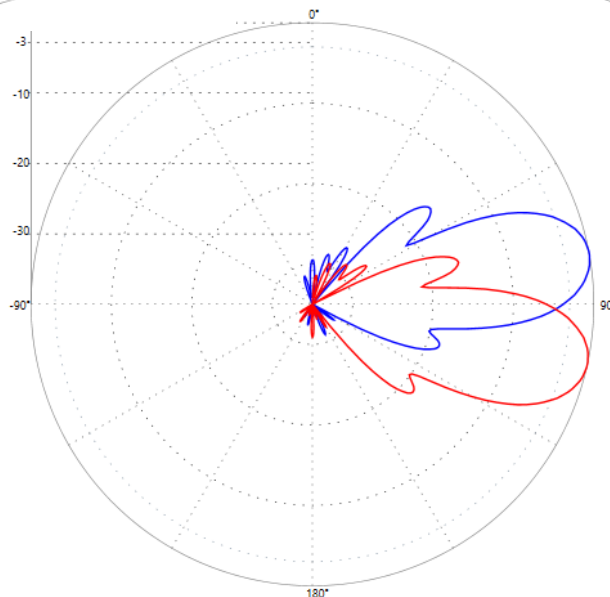
Horizontal Pattern Row 1 (850MHz)



Horizontal Pattern Row 2 (850MHz)



Vertical Pattern (850MHz)



TECHNICAL SPECIFICATIONS PER BEAM

Frequency	617-896 MHz
Gain	19dBi
VSWR	<1.5:1
Polarization	Dual Slant $\pm 45^\circ$
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	75kg 165lbs
Radome Material	Fiber Glass
Mounting	Standard 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 @ 150 km/hr	N/lbf Frontal: 926/208 Lateral: 1288/289 Rear: 837/188

CONNECTOR LAYOUT:

