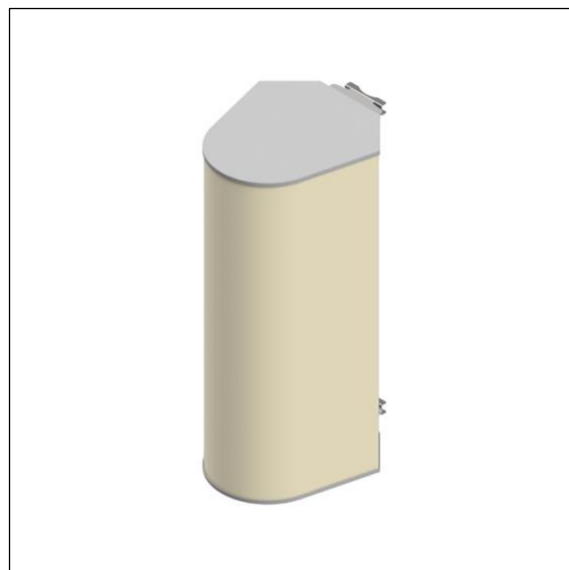


2 BEAMS | 698-960MHz | 2T2R

Lens Technology Enabled™ Multi-Beam Cylindrical Base-Station Lens Antenna:

- Utilizes a patented spherical lens design
- 2 isolated cross-polarized beams for low band
- 120° coverage with the highest beam stability
- 2x2 MIMO capability per beam
- RET AISG 2.0, independent tilt per beam from 2° to 16°
- No beam squinting as compared to Butler matrix antennas
- Low sidelobes for all beam tilts
- Excellent Front-to-Back and CPR performance
- High-capacity solution for macro network
- Rugged mechanical design



ELECTRICAL SPECIFICATIONS, BASTA

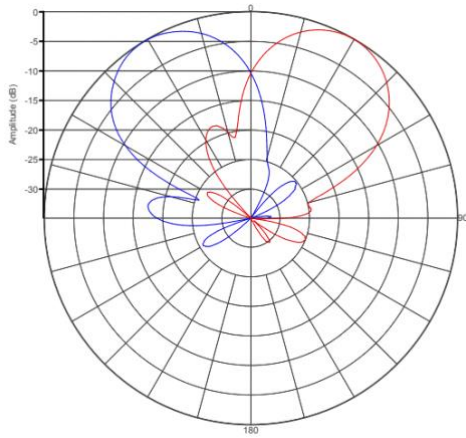
FREQUENCY, MHZ	698-790	790-890	890-960
GAIN, BY ALL TILTS/PORTS, DBI	17+/-1	17.5+/-1	17.8+/-1
VSWR	1.5:1	1.5:1	1.5:1
HORIZONTAL COVERAGE, DEG	120	120	120
HORIZONTAL BEAM CENTERS, DEG	±30±2		
HORIZONTAL BEAMWIDTH, DEG	37±2	35±2	34±1.5
BEAM CROSSOVER, DB	9	10	10.5
HORIZONTAL SIDELOBE, DB	-19	-19	-19
FRONT-TO-BACK RATIO TOTAL POWER AT 180±30°, DB	26	28	29
CPR AT BORESIGHT, DB	19	22	22
CPR AT 10DB BEAMWIDTH, DB	11	10	10
REMOTE ELECTRICAL BEAM TILT, DEG	2-15		
VERTICAL BEAMWIDTH, DEG	17±1.2	15.5±1	14.5±0.7
USLS, BEAMPEAK TO 20° ABOVE BEAMPEAK, DB	16	16	17
ISOLATION PORT TO PORT, POLARIZATION, DB	26	26	26
ISOLATION PORT TO PORT, BEAM, DB	24	24	24
PIM, 3 RD ORDER, 2X20W, DBC	-153		
MAX. POWER PER PORT, W	300		

ELECTRICAL SPECIFICATIONS

IMPEDANCE	50 Ohm
OPERATING FREQUENCY BAND	698-960MHz
POLARIZATION	$\pm 45^\circ$
NUMBER OF BEAMS	2
NUMBER OF PORTS PER BEAM	2
CONNECTOR QUANTITY AND TYPE	4 x 4.3-10 female
TOTAL POWER, MAX	900W

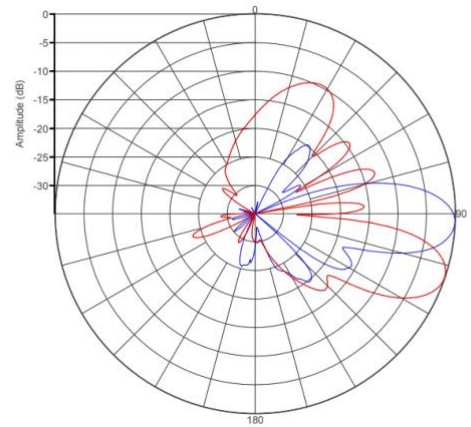
PATTERN RESULTS

Horizontal Patterns



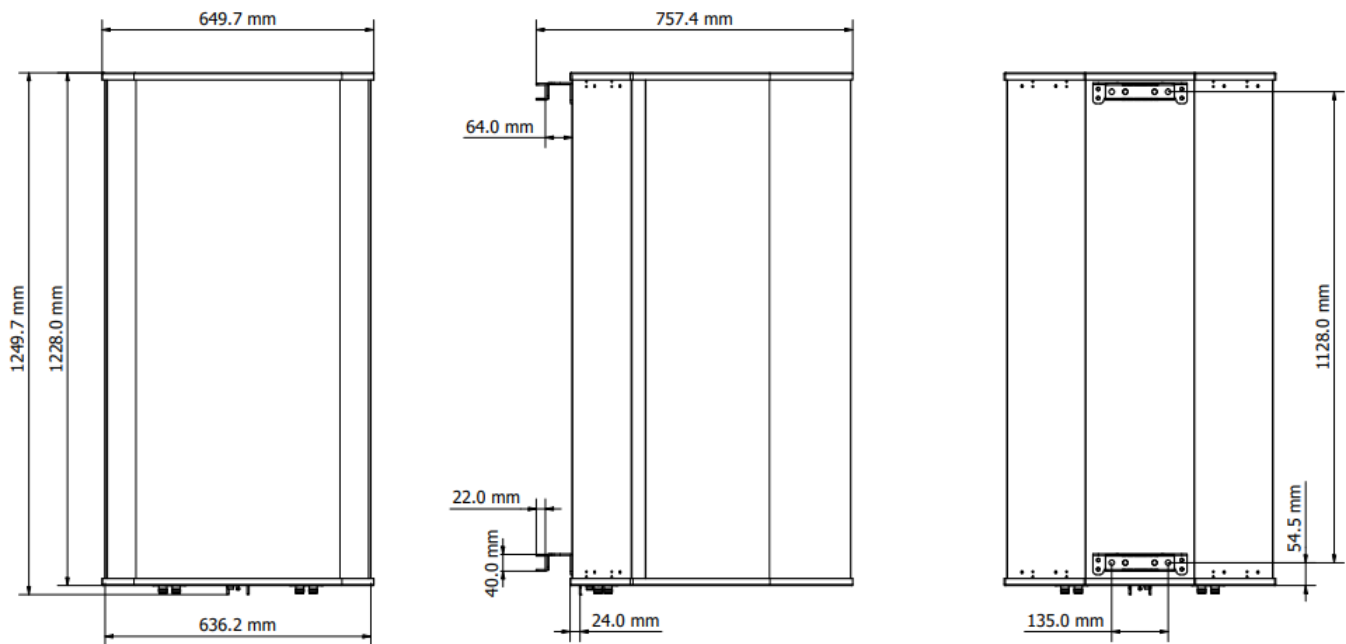
900MHz

Vertical Patterns (2°, 16°)



MECHANICAL SPECIFICATIONS

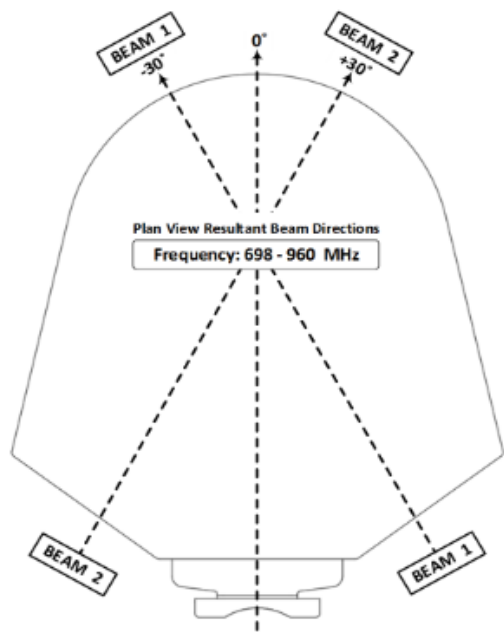
ANTENNA WEIGHT (WITHOUT BRACKET)	83.6 lb.	37.9 kg
ANTENNA WEIGHT (WITH BRACKET)	87.08 lb.	39.48 kg
HEIGHT	49 in	124.4 cm
WIDTH	25.5 in	64.7 cm
DEPTH	29.8 in	75.6 cm
RADOME MATERIAL	Fiberglass	
RADOME COLOR	RAL 7005	
WIND LOADING @150KM/HR FRONTAL		
WIND LOADING @150KM/HR LATERAL		
WIND LOADING @150KM/HR REAR		



ENVIRONMENTAL RATINGS

HUMIDITY	95% RH @ +30°C
TEMPERATURE	-40°C to +70°C

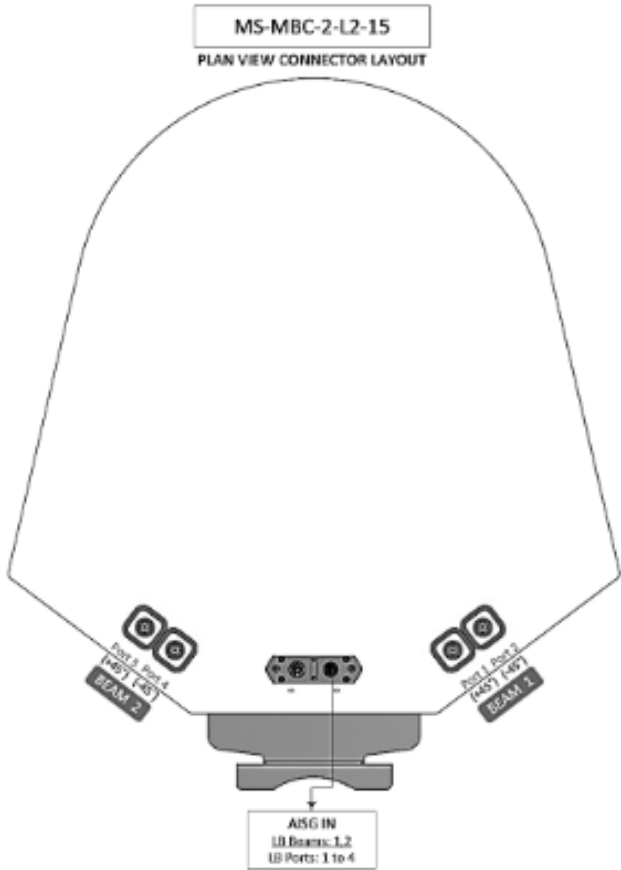
BEAM, PORT, RF CONNECTOR & RET LAYOUT



Antenna top view

BEAM 2		BEAM 1	
Port 3 (+45°)	Port 4 (-45°)	Port 1 (+45°)	Port 2 (-45°)

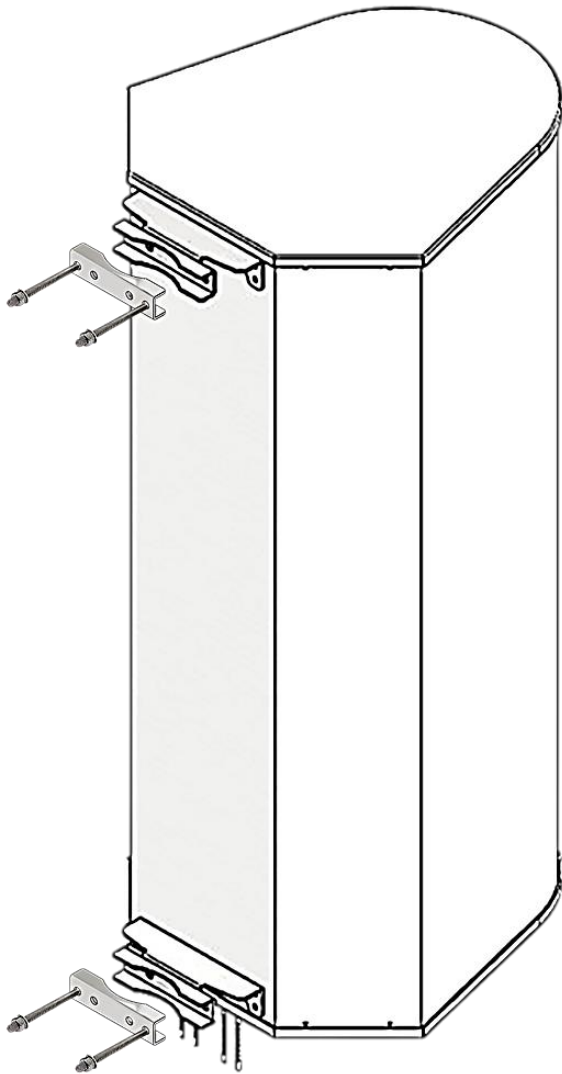
Connector port table



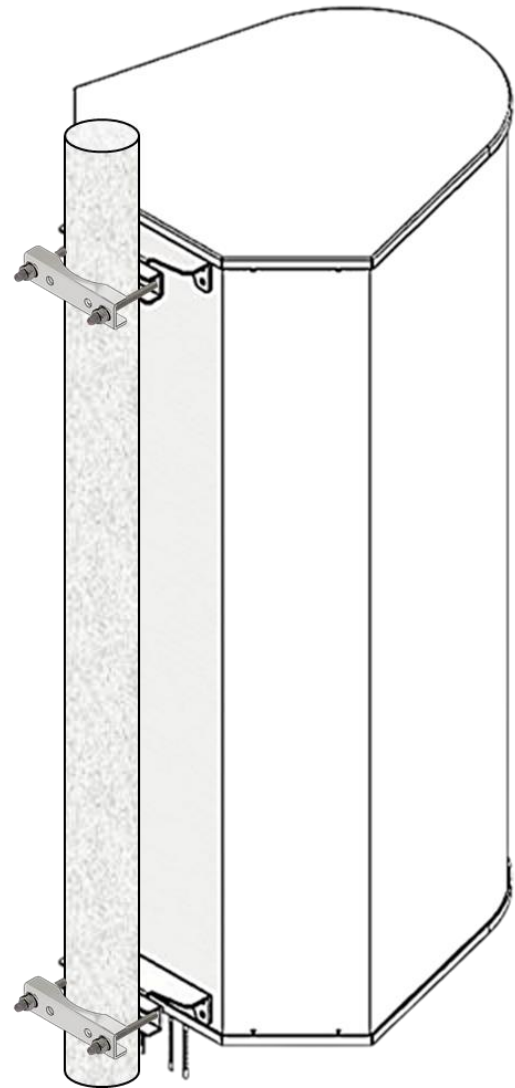
Antenna top view

MOUNTING

COMPATIBLE PIPE DIAMETER	2.4 – 4.5 in	6.1 – 11.4 cm
BRACKET WEIGHT	3.48 lb.	1.58 kg



Before Installation



After Installation

REVISION HISTORY

DATE	DOCUMENT	
04/24/2025	Initial BASTA Datasheet Released	