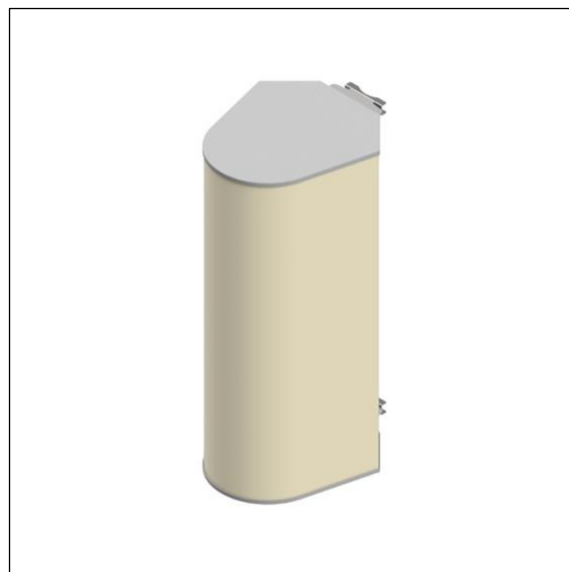


4 BEAMS | 1695-2690MHz | 4T4R

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

- Utilizes a patented cylindrical lens design
- 4 isolated cross-polarized beams for Mid-Band
- 120° coverage with highest beam stability
- 4x4 MIMO capability per beam
- RET AISG 2.0, independent tilt per beam from 2° to 15°
- 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

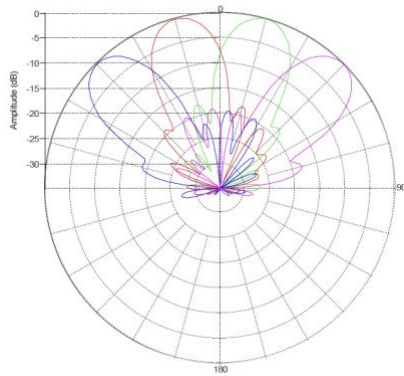
FREQUENCY, MHZ	1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
GAIN, BY ALL TILTS/PORTS, DBI	19+/-0.5	19.8+/-0.5	20.5+/-0.5	20.9+/-0.5	21.3+/-0.5
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
HORIZONTAL COVERAGE, DEG	120	120	120	120	120
HORIZONTAL BEAM CENTERS, DEG	-45±1.5; -15±1.5; 15±1.5; 45±1.5				
HORIZONTAL BEAMWIDTH, DEG	19.5±1	19±1	18.5±1	16.5±0.5	16.3±0.5
BEAM CROSSOVER, DB	7	8	9	10	12
HORIZONTAL SIDELOBE, DB	-17.5	-17	-16.5	-17	-17
FRONT-TO-BACK RATIO TOTAL POWER AT 180±30°, DB	30	30	30	30	30
CPR AT BORESIGHT, DB	23	22	20	20	20
CPR AT 10DB BEAMWIDTH, DB	14	12	11	11	10
REMOTE ELECTRICAL BEAM TILT, DEG	2 - 15				
VERTICAL BEAMWIDTH, DEG	15.5±1	14.5±0.7	14±0.7	12.7±0.6	11±0.8
USLS, BEAMPEAK TO 20° ABOVE BEAMPEAK, DB	17	18	16	15	16
ISOLATION PORT TO PORT, POLARIZATION, DB	26	26	26	26	26
ISOLATION PORT TO PORT, BEAM, DB	24	24	24	24	24
PIM, 3 RD ORDER, 2X20W, DBC	-153				
MAX. POWER PER PORT, W	150 (at 40°C ambient temperature)				

ELECTRICAL SPECIFICATIONS

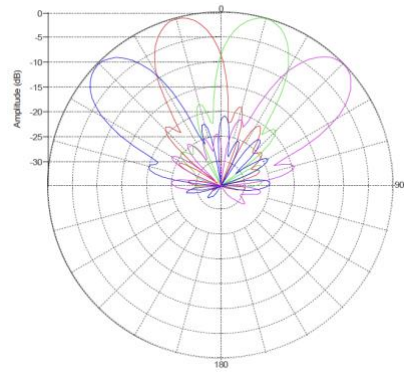
IMPEDANCE	50 Ohm
OPERATING FREQUENCY BAND	1695-2690MHz
POLARIZATION	$\pm 45^\circ$
NUMBER OF BEAMS	4
NUMBER OF PORTS PER BEAM	4
CONNECTOR QUANTITY AND TYPE	16 x 4.3-10 female
TOTAL POWER, MAX	1300W

PATTERN RESULTS

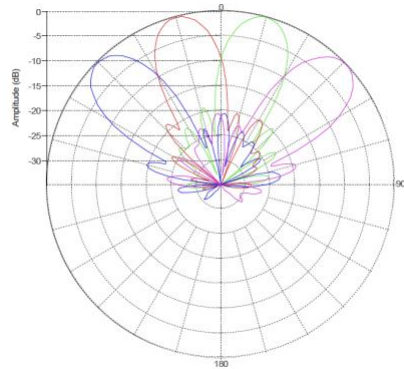
Horizontal Patterns



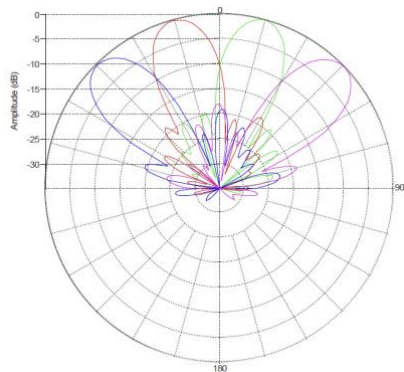
1.80GHz



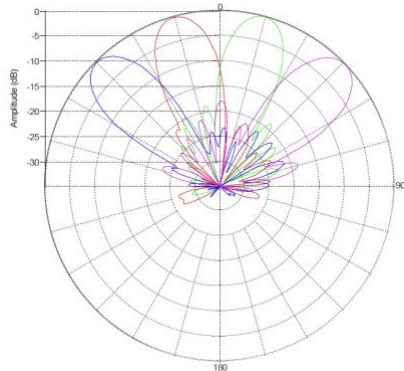
1.95GHz



2.1GHz

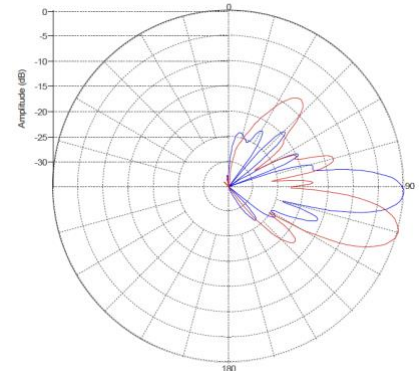
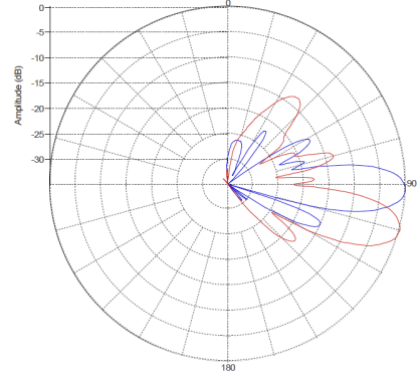
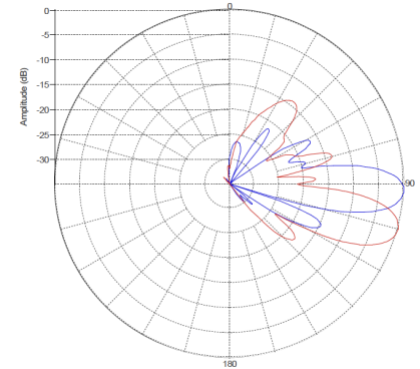
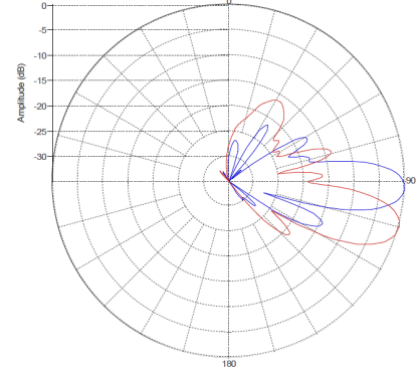
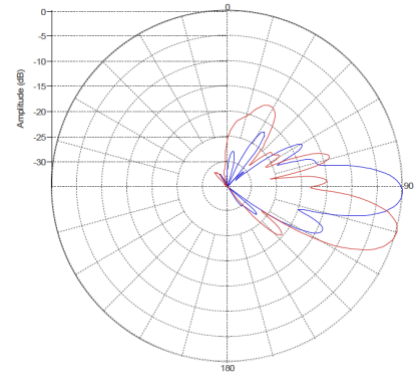


2.36GHz



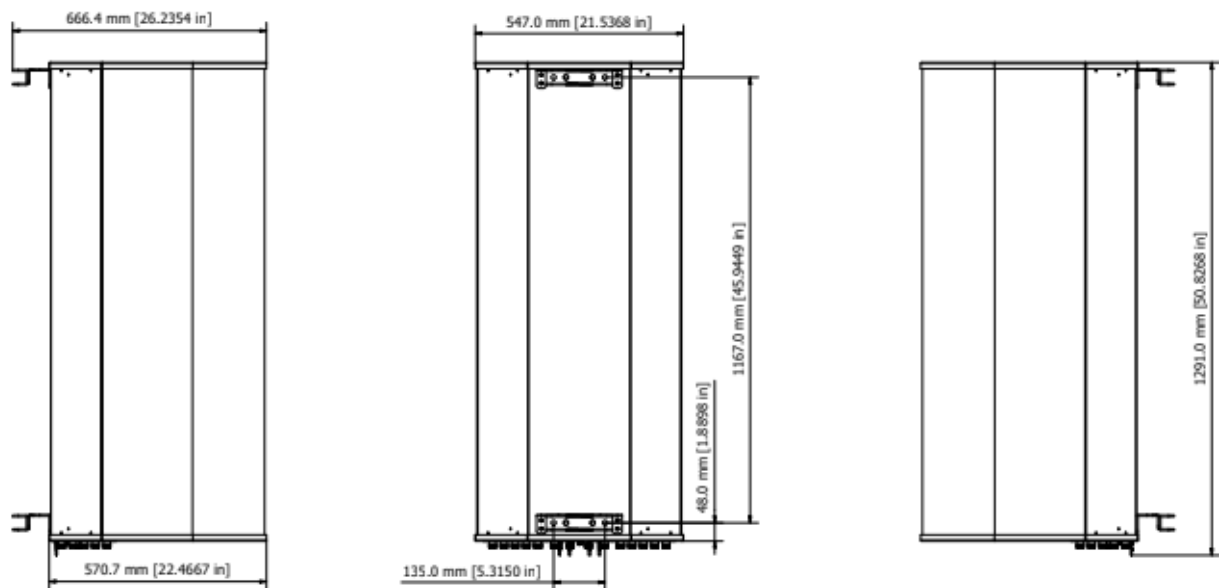
2.59GHz

Vertical Patterns (2°, 15°)



MECHANICAL SPECIFICATIONS

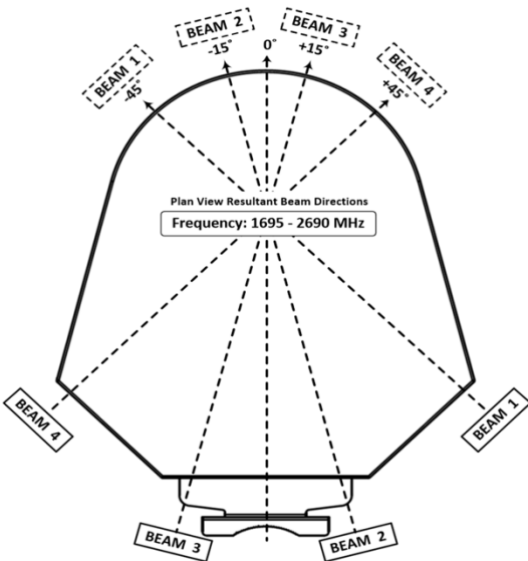
ANTENNA WEIGHT (WITHOUT BRACKET)	85.7 lb.	38.9 kg
ANTENNA WEIGHT (WITH BRACKET)	89.18 lb.	40.48 kg
HEIGHT	50.8 inch	129.1cm
WIDTH	21.5 inch	54.7cm
DEPTH	26.2 inch	66.6cm
RADOME MATERIAL	Fiberglass	
RADOME COLOR	RAL 7005	
WIND LOADING @150KM/HR FRONTAL	525N	118lbf
WIND LOADING @150KM/HR LATERAL	616N	138lbf
WIND LOADING @150KM/HR REAR	656N	147lbf



ENVIRONMENTAL RATINGS

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

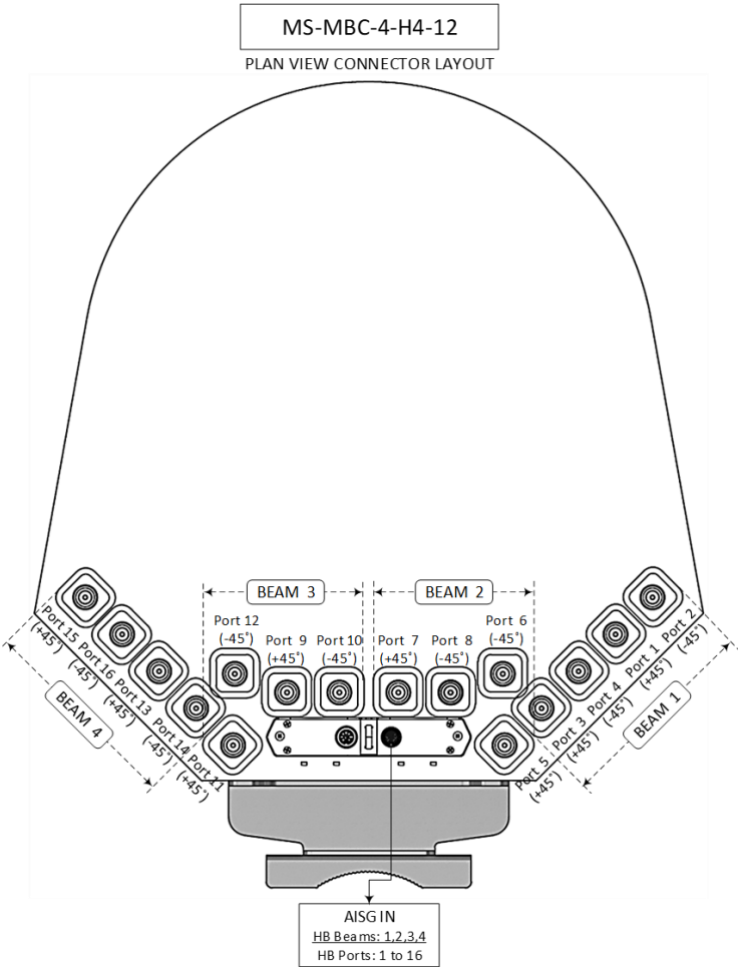
BEAM, PORT, RF CONNECTOR & RET LAYOUT



Antenna top view

BEAM 1			
Port 3 (+45°)	Port 4 (-45°)	Port 1 (+45°)	Port 2 (-45°)
BEAM 2			
Port 7 (+45°)	Port 8 (-45°)	Port 5 (+45°)	Port 6 (-45°)
BEAM 3			
Port 11 (+45°)	Port 12 (-45°)	Port 9 (+45°)	Port 10 (-45°)
BEAM 4			
Port 15 (+45°)	Port 16 (-45°)	Port 13 (+45°)	Port 14 (-45°)

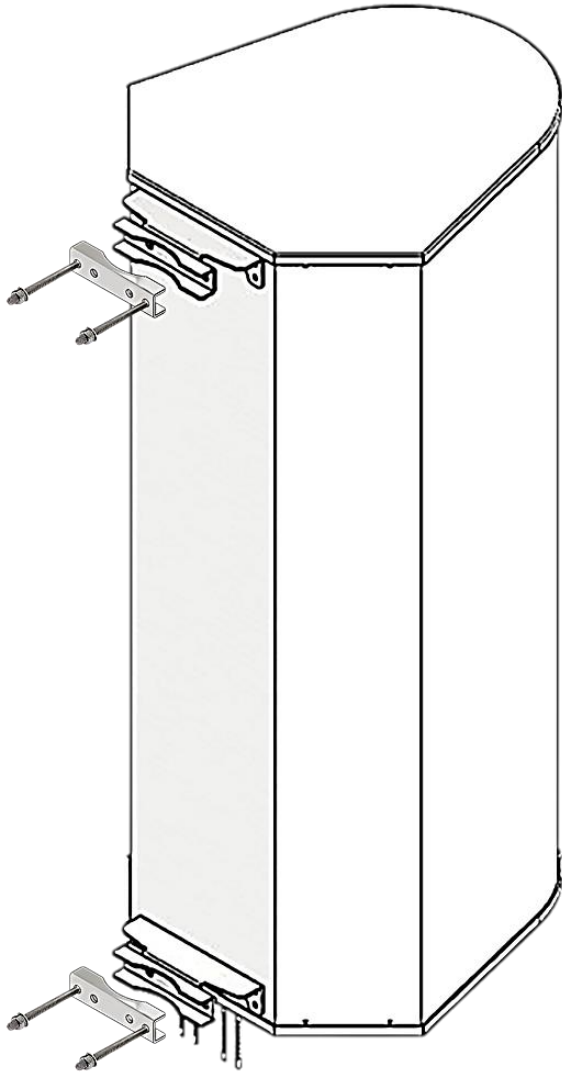
Connector port table



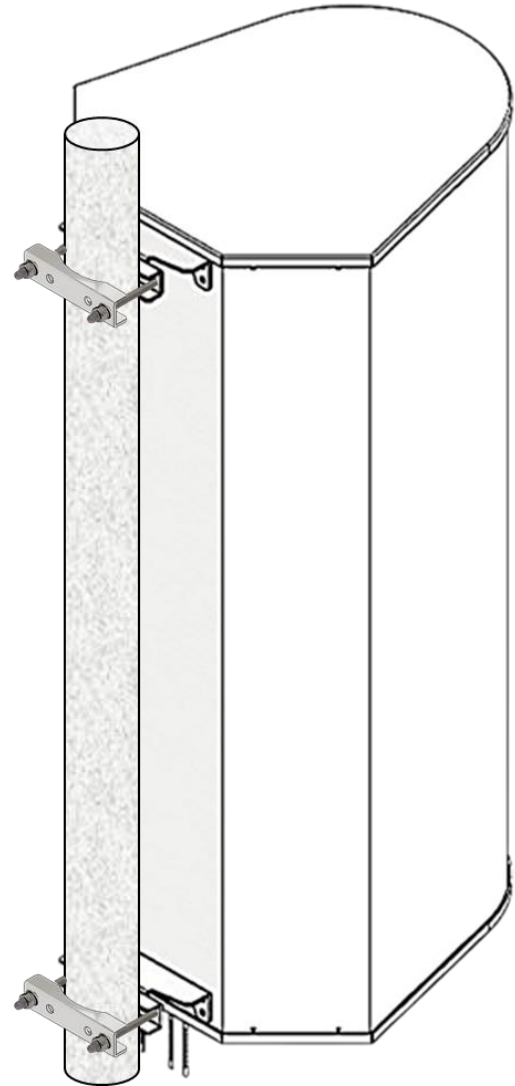
Antenna top view

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	