

3 BEAMS | 3300-4200MHz | 2T2R

Lens Technology Enabled™ Multi-Beam Antenna:

- Utilizes a patented spherical lens design
- 3 isolated cross-polarized beams for F-Band
- 120° coverage with highest beam stability
- 2x2 MIMO capability per beam
- RET AISG 2.0, independent tilt per beam from 0° to 30°
- 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 stadiums, arenas & special events
- Rugged mechanical design



ELECTRICAL SPECIFICATIONS, BASTA

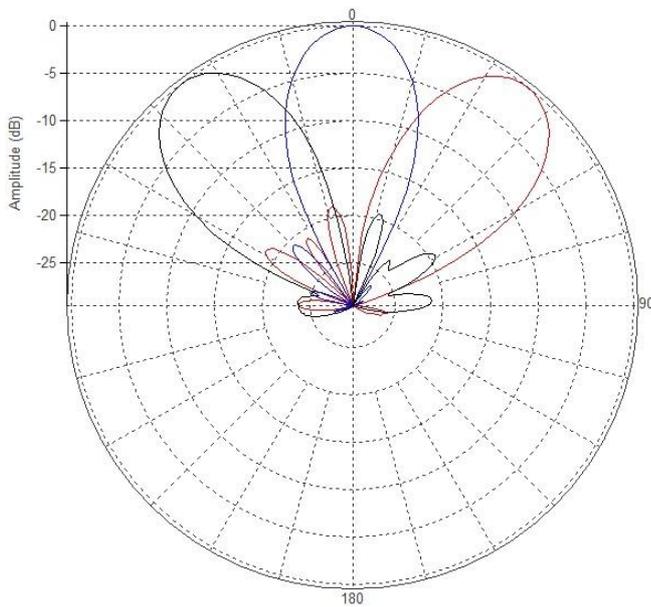
FREQUENCY, MHZ	3300-4200	3700-4200
GAIN (ALL TILTS/PORTS), DBI	16.5+/-0.5	17.2+/-0.5
VSWR	1.5:1	1.5:1
HORIZONTAL COVERAGE, DEG	120	120
HORIZONTAL BEAM CENTERS, DEG	-40+/-2; 0 +/-2; 40+ /-2	
HORIZONTAL BEAMWIDTH, DEG	26.5±1.5	25±1.5
BEAM CROSS-OVER, DB	7.5	8.5
HORIZONTAL SIDELOBES, DB	-17.5	-18
FRONT TO BACK TOTAL POWER AT 180°±30°, DB	28	30
CPR AT BORESIGHT, DB	20	21
CPR AT 10DB BEAMWIDTH, DB	12	12
REMOTE ELECTRICAL BEAM TILT, DEG	0-30	
VERTICAL BEAMWIDTH, DEG	26±1.5	25±1.5
USLS, BEAMPEAK TO 20° ABOVE BEAMPEAK, DB	N/a	N/a
ISOLATION PORT TO PORT - POLARIZATION, DB	28	30
ISOLATION PORT TO PORT - BEAM, DB	26	26
PIM, 3RD ORDER, 2X20W, DBC	-153	
MAX. POWER PER PORT, W	150 (at 40°C ambient temperature)	

ELECTRICAL SPECIFICATIONS

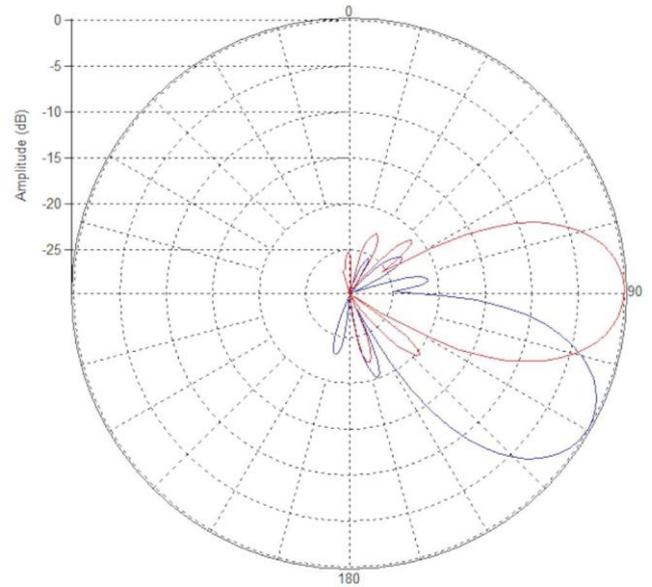
IMPEDANCE	50 Ohm
OPERATING FREQUENCY BAND	3300-4200MHz
POLARIZATION	±45°
NUMBER OF BEAMS	3
NUMBER OF PORTS PER BEAM	2
CONNECTOR QUANTITY AND TYPE	6 x 4.3-10 female
TOTAL POWER, MAX	1200W at 40°C

PATTERN RESULTS

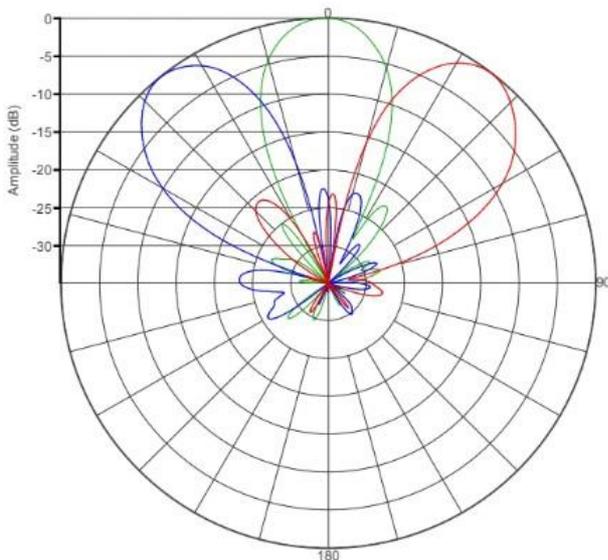
Horizontal Beam Pattern (3.5GHz)



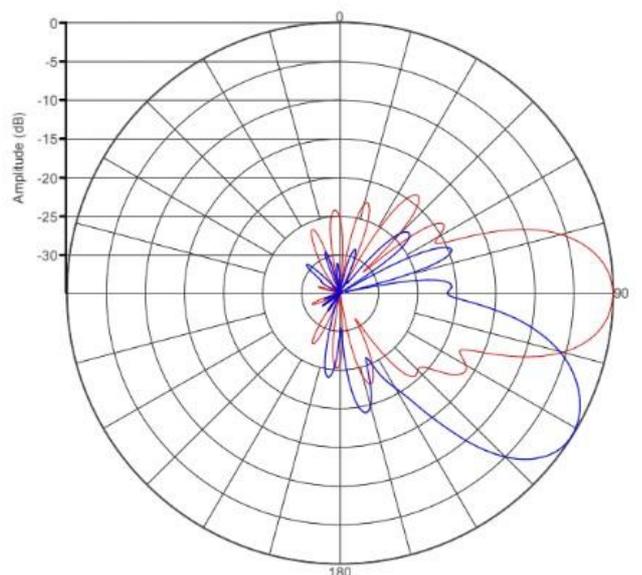
Vertical Pattern at 0° and 30° Tilt (3.5GHz)



Horizontal Beam Pattern (3.9GHz)

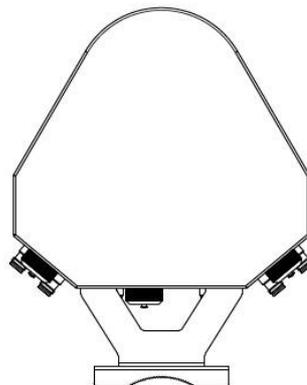
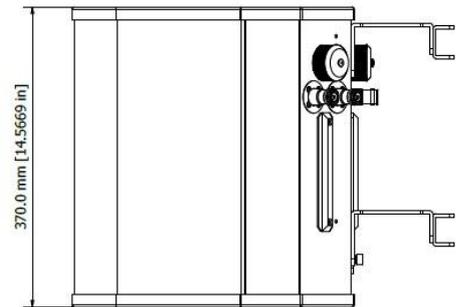
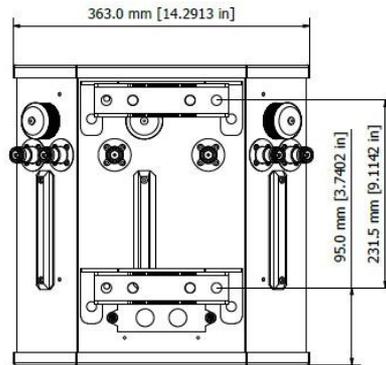
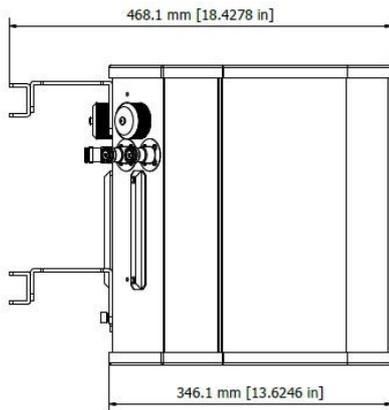


Vertical Pattern at 0° and 30° Tilt (3.9GHz)



MECHANICAL SPECIFICATIONS

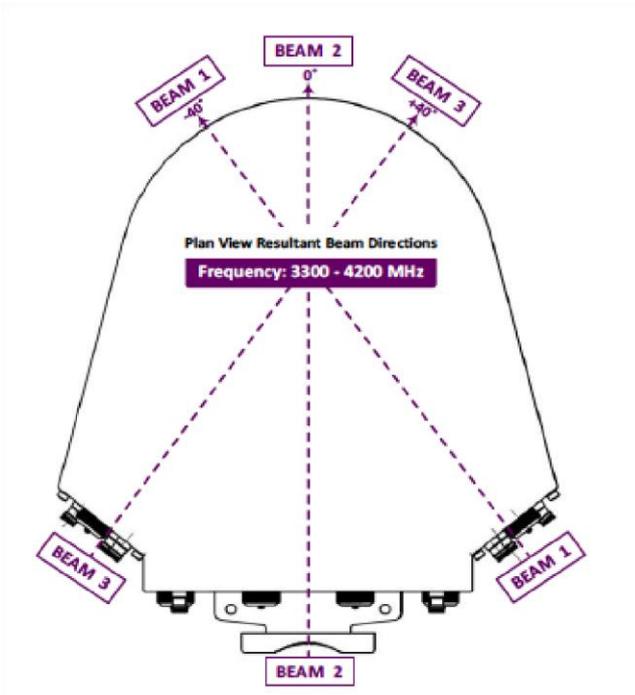
ANTENNA WEIGHT (WITHOUT BRACKET)	20.81lbs	9.44kg
BRACKET WEIGHT	3.48lbs	1.58kg
ANTENNA WEIGHT (WITH BRACKET)	24.3lbs	11.02kg
HEIGHT	14.5 inch	36.8cm
WIDTH	14.2 inch	36cm
DEPTH	18.4 inch	46.7cm
RADOME MATERIAL	Polycarbonate	
RADOME COLOR	RAL 7005	
WIND LOADING @150KM/HR FRONTAL	85N	19lbf
WIND LOADING @150KM/HR LATERAL	117N	26lbf
WIND LOADING @150KM/HR REAR	100N	22.4lbf



ENVIRONMENTAL RATINGS

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

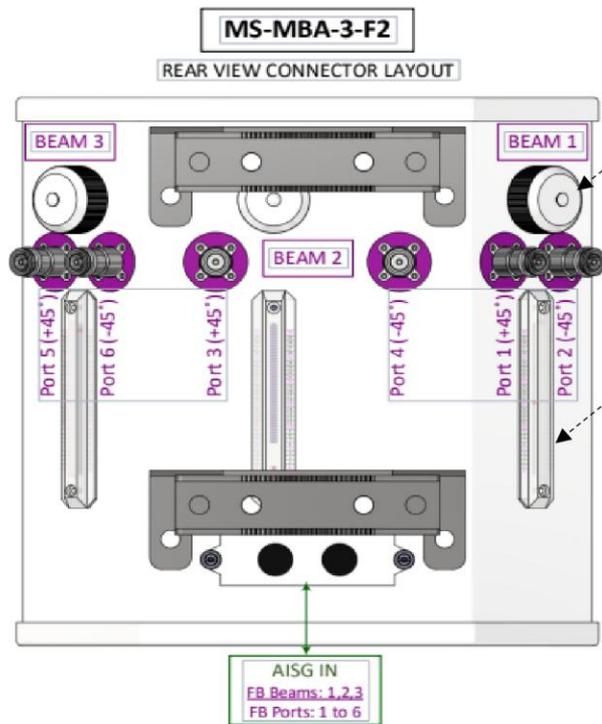
BEAM, PORT, RF CONNECTOR & RET LAYOUT



Antenna top view

BEAM 3		BEAM 2		BEAM 1	
Port 5	Port 6	Port 3	Port 4	Port 1	Port 2
(+45°)	(-45°)	(+45°)	(-45°)	(+45°)	(-45°)

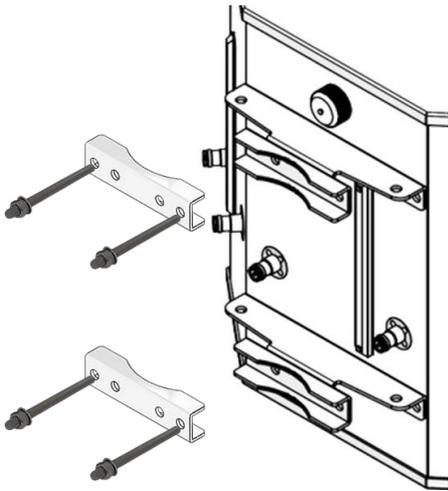
1.20 Connector Ports Table



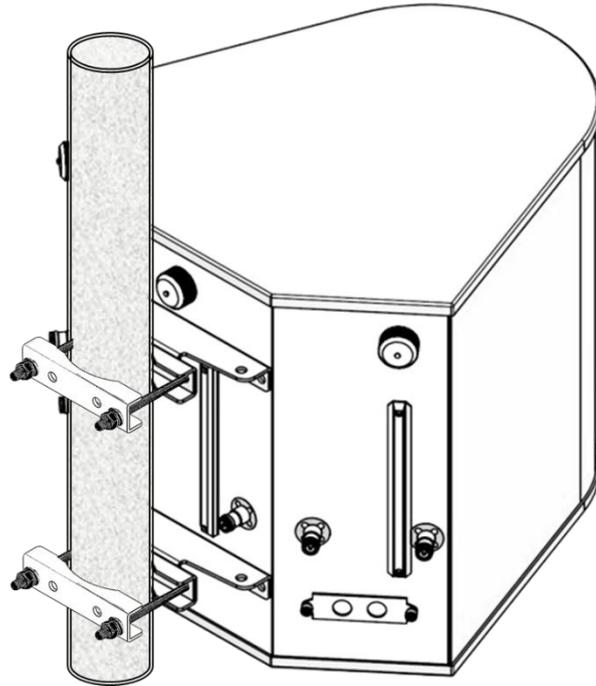
Antenna rear view

MOUNTING

COMPATIBLE PIPE DIAMETER	2.4 – 4.5 inch	6.1 – 11.4 cm
BRACKET WEIGHT	3.48 lbs	1.58 kg



Before Installation



After Installation

REVISION HISTORY

DATE	DOCUMENT	
11042024	Initial BASTA Datasheet Released	
11202025	Bracket Info Addition	