

**9X Pol Panel Nine Beam Antenna 9×1710-2690MHz 5° 24dBi 6° FET****Electrical Specifications**

Frequency Range (MHz):	Beam 1 (Port 1/2)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	19.4±1.6	20.5±0.4	20.7±0.4	21.6±0.7	21.0±1.0	20.5±1.2
Horizontal 3dB Beamwidth (°):	8.4±1.0	7.0±0.5	6.0±0.6	5.3±0.3	4.9±0.3	4.7±0.2
Vertical 3dB Beamwidth (°):	21.6±2.5	17.5±1.8	15.1±0.8	13.8±0.7	12.0±1.3	12.4±0.5
Horizontal Beam Pointing (°):	46	41	37	34	31	30
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	21	17	13	18	12	13
Front to Back Ratio (dB):	28	31	33	31	32	32
CPR at boresight (dB):	13	23	23	21	21	20

Frequency Range (MHz):	Beam 2 (Port 3/4)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	20.9±0.6	21.2±0.3	21.3±0.3	22.3±0.6	22.2±1.4	22.3±0.7
Horizontal 3dB Beamwidth (°):	7.0±0.5	6.1±0.6	5.4±0.3	5.0±0.3	4.6±0.3	4.4±0.2
Vertical 3dB Beamwidth (°):	18.1±1.5	15.5±1.4	13.7±0.5	12.5±0.9	11.3±0.5	10.5±0.3
Horizontal Beam Pointing (°):	33	30	27	25	23	22
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	20	19	18	23	15	15
Front to Back Ratio (dB):	26	32	31	32	29	29
CPR at Boresight (dB):	28	23	24	23	19	18

Frequency Range (MHz):	Beam 3 (Port 5/6)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	21.4±0.7	21.7±0.2	21.9±0.5	22.5±0.9	22.6±1.5	23.1±0.6
Horizontal 3dB Beamwidth (°):	6.3±0.5	5.6±0.4	5.1±0.3	4.7±0.3	4.5±0.2	4.3±0.2
Vertical 3dB Beamwidth (°):	16.5±1.6	14.5±0.6	12.7±1.3	11.6±0.2	11.3±0.3	11.0±0.2
Horizontal Beam Pointing (°):	22	20	18	17	16	15
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	20	23	17	16	17	17
Front to Back Ratio (dB):	30	32	34	31	29	34
CPR at Boresight (dB):	19	20	23	25	20	21

Frequency Range (MHz):	Beam 4 (Port 7/8)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	21.4±0.8	21.6±0.2	22.0±0.4	22.8±0.7	22.8±1.0	23.5±0.2
Horizontal 3dB Beamwidth (°):	6.1±0.5	5.5±0.3	5.0±0.4	4.5±0.2	4.3±0.2	4.0±0.3
Vertical 3dB Beamwidth (°):	15.6±1.5	13.8±0.5	12.3±1.2	11.4±0.2	11.0±0.4	10.5±0.3
Horizontal Beam Pointing (°):	11	10	10	9	8	8
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	20	18	17	17	17	16
Front to Back Ratio (dB):	28	31	33	31	33	33
CPR at Boresight (dB):	16	18	20	22	20	22

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Frequency Range (MHz):	Beam 5 (Port 9/10)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	21.4±0.6	21.7±0.3	21.7±0.3	22.6±0.2	22.8±0.6	23.4±0.2
Horizontal 3dB Beamwidth (°):	5.9±0.5	5.4±0.2	4.9±0.5	4.5±0.2	4.3±0.2	4.1±0.2
Vertical 3dB Beamwidth (°):	15.4±1.5	13.6±0.3	12.1±1.4	11.1±0.2	10.7±0.4	10.2±0.3
Horizontal Beam Pointing (°):	1	1	1	1	1	1
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	20	21	20	19	19	17
Front to Back Ratio (dB):	26	32	32	30	30	30
CPR at Boresight (dB):	15	17	19	21	18	24

Frequency Range (MHz):	Beam 6 (Port 11/12)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	21.4±0.6	21.6±0.3	22.0±0.2	22.6±0.2	22.8±0.1	23.4±0.3
Horizontal 3dB Beamwidth (°):	5.9±0.5	5.4±0.2	5.0±0.2	4.6±0.2	4.3±0.2	4.2±0.2
Vertical 3dB Beamwidth (°):	15.3±1.0	13.6±0.9	12.2±0.7	11.2±0.3	10.7±0.4	10.3±0.6
Horizontal Beam Pointing (°):	-9	-8	-7	-6	-6	-6
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	22	21	20	19	18	16
Front to Back Ratio (dB):	24	33	38	32	31	31
CPR at Boresight (dB):	17	18	18	18	16	21

Frequency Range (MHz):	Beam 7 (Port 13/14)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	21.2±0.6	21.4±0.1	21.7±0.1	22.6±0.5	22.6±0.5	23.3±0.6
Horizontal 3dB Beamwidth (°):	6.4±0.5	5.8±0.3	5.1±0.6	4.6±0.2	4.3±0.3	4.2±0.2
Vertical 3dB Beamwidth (°):	16.3±1.5	14.4±0.6	12.6±1.4	11.4±0.2	11.0±0.4	10.6±0.2
Horizontal Beam Pointing (°):	-20	-17	-16	-14	-13	-12
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	20	17	22	20	19	16
Front to Back Ratio (dB):	30	29	36	29	33	34
CPR at Boresight (dB):	19	19	17	26	14	20



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Frequency Range (MHz):	Beam 8 (Port 15/16)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	20.9±0.7	21.2±0.2	21.3±0.1	22.4±0.3	22.4±0.3	22.5±0.8
Horizontal 3dB Beamwidth (°):	7.0±0.5	6.1±0.6	5.4±0.3	4.9±0.4	4.6±0.2	4.3±0.3
Vertical 3dB Beamwidth (°):	18.6±1.0	15.8±2.0	13.5±0.5	12.2±1.0	11.3±0.2	11.1±0.2
Horizontal Beam Pointing (°):	-31	-27	-25	-22	-21	-20
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	19	15	24	21	19	15
Front to Back Ratio (dB):	30	32	31	30	35	29
CPR at Boresight (dB):	25	19	17	18	19	17

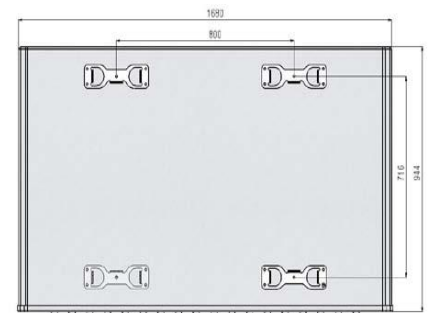
Frequency Range (MHz):	Beam 9 (Port 17/18)					
	1710-1880	1880-2025	2025-2300	2300-2450	2450-2550	2550-2690
Gain (dBi):	19.6±1.4	20.6±0.2	20.9±0.2	21.9±0.2	21.3±0.5	21.0±1.3
Horizontal 3dB Beamwidth (°):	8.1±0.8	6.9±0.6	5.9±0.6	5.3±0.2	4.9±0.4	4.8±0.2
Vertical 3dB Beamwidth (°):	19.4±1.0	17.2±1.4	15.0±1.0	13.4±0.8	11.7±1.1	10.8±0.2
Horizontal Beam Pointing (°):	-44	-38	-34	-31	-29	-27
Electrical Downtilt (°):	6.0 Fixed					
1 <sup>st</sup> Upper Sidelobe Suppression (dB):	17	19	25	21	14	15
Front to Back Ratio (dB):	30	33	37	33	31	27
CPR at Boresight (dB):	12	21	18	16	15	17

### BASTA Electrical Specifications

Frequency Range (MHz):	All Beams (Port 1 to 18)
	1710-2690
Return Loss (dB):	>14 (VSWR<1.5)
Polarization:	±45°
Cross Polar Isolation (dB):	>25
Beam to beam Isolation(dB):	>16
Max. Power Per Port (W):	200
Total Power for the Antenna(W):	800
Intermodulation IM3 (dBc):	<-150 (2×43 dBm)
Impedance (ohm):	50
Lightning Protection:	DC Grounded
Connector Type:	18×4.3-10 Female

### Mechanical Data

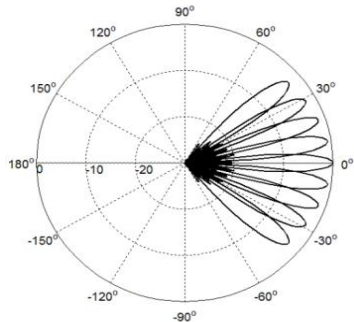
Antenna Dimensions (mm):	945×1680×137
Packing Dimensions (mm):	1094×1840×237
Antenna Net Weight/Bracket (kg):	69/5.7
Antenna Gross Weight (kg):	90.5
Radome Material:	Fiberglass
Pipe OD (mm):	70-114
Mounting Kits (Included):	BA.K.04.00004, Adjustable Downtilt 0°-10° (0°,2°-10° in 1 steps)



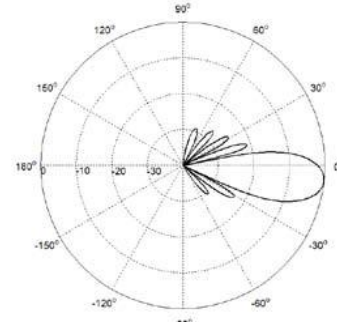
### Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-40~+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:2699/75/2451
Max. Wind velocity(km/h):	160

### Typical Patterns



Azimuth



Elevation

### Bottom View

