

12 Port Multi-Beam Antennas

2xLow (698-960MHz)+4x High (1695-2690 MHz)
65° +33° HBW 15.3&18.5dBi 2°-12°&2°-12°T
12 x 4.3-10 Female Connectors

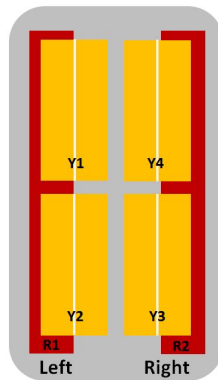
Electrical Specifications(BASTA)

Frequency Range(MHz)		2×(698-960) (R1/R2)		
		698- 806	790-896	880 - 960
Polarization		±45		
Electrical Downtilt(°)		2-12,continuously adjustable		
Gain (dBi)	Mid tilt	14.8	15.1	15.3
	Over all tilts	14.5±0.5	14.8±0.5	15.1±0.5
First upper Side Lobe Suppression (dB)		≥15		
Horizontal 3dB Beam Width (°)		67±6	63±6	60±6
Vertical 3dB Beam Width(°)		10.5±1.5	9.5±1.0	8.5±1.0
Cross-Polar Ratio @0°(dB)		≥18	≥18	≥18
Cross-Polar Ratio @±60°(dB)		≥8	≥10	≥10
Front to Back Ratio 180°±30° (dB)		≥23		
Frequency Range(MHz)		4×(1695 – 2690)(Y1,Y2,Y3,Y4)		
		1695 - 1880	1920 - 2170	2500 - 2690
Polarization		±45		
Electrical Downtilt(°)		2-12, continuously adjustable		
Gain (dBi)	Mid tilt	17.3	18.0	18.5
	Over all tilts	17.0±0.5	17.8±0.5	18.3±0.5
First upper Side Lobe Suppression (dB)		≥16		
Horizontal 3dB Beam Width (°)		38±5	34±4	28±3
Vertical 3dB Beam Width(°)		9.3±1.0	8.5±1.0	6.8±1.0
Horizontal beam direction (°)		±27		
Cross-Polar Ratio @0°(dB)		≥18	≥18	≥15
Cross-Polar Ratio @0°(dB)		≥10	≥10	≥8
Front to Back Ratio 180°±30° (dB)		≥25		
VSWR		≤1.5		
Intermodulation IM3 (dBc)		≤ -150 (2 x 43 dBm carrier)		
Isolation: intra-system (dB)		≥25		
Isolation: inter-system (dB)		≥26		
Max. power per port(W)		500 (698-960MHz); 200 (1695 – 2690MHz)		
Impedance (Ω)		50		
Grounding		DC Ground		

Mechanical Specifications(BASTA)	
RET type	Integrated RET (AISG2.0/3GPP)
AISG Connectors (1 input and 1 output)	2x8 pin (in: Male; out: Female)
Connector	12×4.3-10 female, Bottom
Antenna dimensions (H x W x D) (mm)	2090×498×200
Packing dimensions (H x W x D) (mm)	2380×585×285
Antenna weight (kg)	35
Clamps weight (kg)	5.5
Diameter of installation pole	φ50 ~φ110mm
Radome material	Fiberglass
Radome color	Light grey
Operational temperature (°C)	-40 to +60
Wind load @150km/h (N)	825/306/998(Frontal/Lateral/Rear side)
Max. operational wind speed (km/h)	241



Layout



Frequency Range	Array	Connector
698-960	R1/R2	1-2/3-4
1695-2690	Y1/Y2/Y3/Y4	5-6/7-8/9-10/11-12

Pattern

698-960MHz	1695-2690MHz