

FDD+TDD Smart Antenna 2x(703-803)/4x(3800-4000)MHz
65°HBW 13.5/16.5dBi 2°~12°/2°~12°T
12+1(Cal) 4.3-10 female Connectors /2m

Electrical Specifications(BASTA12.0)				
General Parameters	Frequency Range(MHz)		3800-4000	
	Polarization (°)		±45	
	Electrical downtilt(°)		2-12	
Calibration and electrical parameter	Coupling Factor between calibration port and each antenna port(dB)		-26±2	
	Max. amplitude tolerance from calibration port to input ports (dB)		<0.9	
	Max. phase tolerance between calibration port and each antenna port(°)		<7	
	Ports VSWR		<1.5	
	3rd PIM@2 x 43 dBm(dBc)		/	
	Max. power per port(W)		300	
	Co-polarization Isolation between ports (dB)		>21@2T,>26@7T-12T	
	Cross-polarization Isolation between ports(dB)		>25	
Radiation parameters	Single column pattern	Azimuth Beamwidth 3dB(°)		70±10
		Gain (dBi)	Over all tilts	16.0±0.8
		Elevation Beamwidth 3dB(°)		5.5±1.5
		Cross polar ratio(0°)(dB)		>18
		Front to back ratio(dB)		>23
		First upper Side Lobe Suppression (dB)		>14
	Broadcast beam	Azimuth Beamwidth 3dB(°)		65±10
		Gain (dBi)	Over all tilts	17.5±0.3
		±60°Gain roll-offat sector edge(dB)		2±5
		Elevation Beamwidth 3dB(°)		5.5±1.5
		Cross polar ratio(0°)(dB)		>18
		Front to back ratio(dB)		>23
		First upper Side Lobe Suppression (dB)		>15
	Service beam	0°direct beam gain(dBi)	Over all tilts	20.0±0.5
0°direct beam Azimuth Beamwidth 3dB(°)		25		
0°direct beam horizontal sidelobe suppression(dB)		12±2		
0°direct beam cross polar ratio(axial)(dB)		>18		
0°direct beam front to back ratio(dB)		>25		
60°Soft split electrical		Azimuth Beamwidth 3dB(°)		30±3
	Gain (dBi)	Over all tilts	17.5±0.5	

	propertie	Elevation Beamwidth 3dB(°)	5.5±1.5
		Front to back ratio(dB) above main	>24
		First upper Side Lobe Suppression (dB)	>15

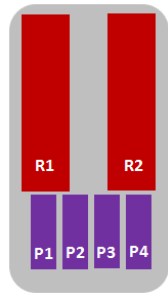
Electrical Specifications(BASTA12.0)		
Frequency Range(MHz)	2x(703-803) (R1/R2)	
Polarization(°)	±45	
Electrical Downtilt(°)	2-12 (Independent electric regulator)	
Gain (dBi)	Mid tilt	13.6
	Over all tilts	13.5±0.5
First upper Side Lobe Suppression (dB)	>16	
Azimuth Beamwidth 3dB(°)	67±6	
Elevation Beamwidth 3dB(°)	12.5±1.0	
Cross-Polar Ratio @0°(dB)	>18	
Cross-Polar Ratio @±60° (dB)	>8	
Front to Back Ratio, 180°±30° (dB)	23	
VSWR	< 1.5	

3rd PIM@2 x 43 dBm(dBc)	<-153
Isolation: intra-system (dB)	>26
Isolation: inter-system (dB)	>26
Max. power per port(W)	400
Impedance (Ω)	50
Lightning Protection	DC Ground

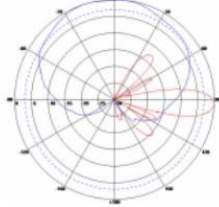
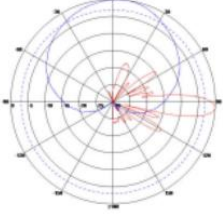
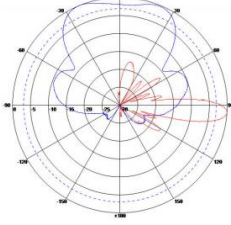
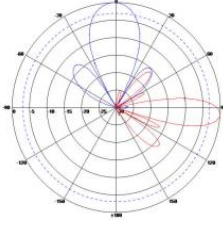
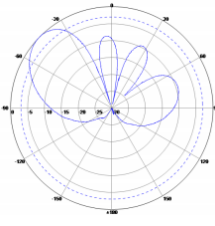
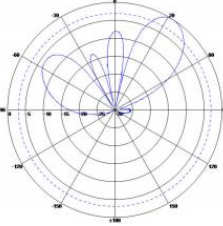
Mechanical Specifications(BASTA11.1)

RET type	Integrated RET (AISG2.0/3GPP)	
AISG Connectors (1 input and 1 output)	(in: Male; out: Female)	
Connector	12+1(Cal)x4.3-10 female , Bottom	
Antenna Dimensions (H x W x D) (mm)	1998×446×165	
Packing Size (H x W x D) (mm)	2280×530×255	
Antenna weight (kg)	31.0±1.0	
Clamps weight (kg)	5.2±0.5	
Packing weight(kg)	42.5±1.0	
Diameter of installation pole	ϕ 50~ ϕ 110mm	
Radome material	Fiberglass	
Mechanical Tilt Range (°)	0-10	
Radome color	Light Grey	
Operational temperature (°C)	-40 to +70	
Wind load @150km/h (N)	812/304/996(Frontal/Lateral/Maximum)	
Max. operational wind speed (km/h)	241	

Layout

		
Frequency Range	Array	Connector
703-803MHz	R1/R2	1-2/3-4
3800-4000MHz	P1/P2/P3/P4	5-6/7-8/9-10/11-12/Cal

Pattern

	
<p>703-803MHz (Single)</p>	<p>3800-4000MHz (Single)</p>
	
<p>3800-4000MHz (Broadcast)</p>	<p>3800-4000MHz (Service 0°)</p>
	
<p>3800-4000MHz (Service 60°)</p>	