Product Data Sheet

S-VU2L4PX8.4.4P-2C

X Pol Panel TD Antenna 3300-3800MHz 80° 14dBi 2° -12° Replaceable RET

XXXXXX Pol 2×698-960/4×1710-2690MHz 65° /65° 12/14dBi 2° -16° /2° -12° Replaceable RET

Electrical Specifications (3300-3800MHz)			
General Parameters	Frequency range (MHz):		3300-3800(P1)
	Polarization:		±45
	Electrical downtilt (°):		2-12 continuously adjustable
	Grounding:		DC Grounded
	Connector Type:		1xMQ5,1xMQ4
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port (dB) :		-26±2
	Max Amp/phase Deviation:		<1.2/ 12°
	VSWR:		<1.5
	Max. Power Per Port (W):		40
	Isolation (dB):		>20
Radiation parameters	Single Column	Horizontal 3dB Beamwidth (°):	70±10
		Vertical 3dB Beamwidth (°):	8.6
		Front to Back Ratio (dB):	25
		Gain (dBi):	14.1±0.7
		Cross polar ratio (dB):	>15 (0°)/>6 (±60°)
	Broadcast Beam	Horizontal 3dB Beamwidth (°):	65±10
		Gain (dBi):	15.6±0.5
		Front to Back Ratio (dB):	25
		Vertical 3dB Beamwidth (°):	8.6
		Cross polar ratio (dB):	>15 (0°)/>6 (±60°)
		1st Upper Sidelobe Suppression (dB):	>14
	Service Beam @ 0deg	Gain (dBi):	19.0±0.5
		Horizontal 3dB Beamwidth (°):	20
		Horizontal Sidelobe Level (dB):	<-12
		Cross polar ratio (0°) (dB):	15
		Front to Back Ratio (dB):	25

Electrical Specifications (698-960/1710-2690 MHz)									
Frequency Range (MHz):	698-960(R1,R2)			1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	698-806	806-880	880-960	1710 -2170	2300 -2490	2490 -2690	1710 -2170	2300 -2490	2490 -2690
Gain (dBi):	12.1	11.8	11.5	12.8	13.4	13.8	12.5	13.3	13.8
Return Loss (dB):	>14 (VSWR<1.5)								
Polarization:	±45°								
Horizontal 3dB beamwidth (°):	68	77	80	69	65	62	71	67	60
Vertical 3dB beamwidth (°):	28	20	19	17	15	13	18	15	14
Front to Back Ratio(dB):	>21	>21	>21	>25	>24	>24	>23	>24	>23
Electrical Downtilt (°):	2-16 Independently Continuously Adjustable			2-12 Independently Continuously Adjustable					
Polarization Isolation (dB):	>23								
Interband Isolation (dB):	>23								
Max. Power Per Port (W):	150			200					
Intermodulation IM3 (dBc):	<-150 (2×43dBm)								
Impedance (ohm):	50								
Lightning Protection:	DC Grounded								

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Connector Type:	12x4.3-10 Female

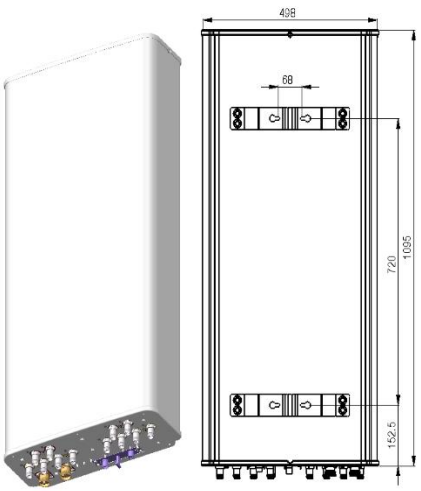
BASTA Electrical Specifications

Frequency Range(MHz):	698-960(R1,R2)			3300-3800(P1)
	698-806	806-880	880-960	
Average Gain by all Beam Tilts (dBi):	11.7	11.7	11.6	13.9
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.6	±0.7	±0.8
Average Gain by Beam Tilt (dBi):	2°|12.1 9°|11.8 16°|11.5	2°|12.1 9°|11.7 16°|11.3	2°|12.2 9°|11.6 16°|11.2	2°|13.9 7°|14.1 12°|13.7
Horizontal Beamwidth Tolerance(°):	±10.0	±8.0	±6.0	±7.0
Vertical Beamwidth Tolerance(°):	±1.9	±1.7	±2.0	±1.0
Front to back Total Power at 180° ± 30°(dB):	19.0	19.0	19.0	23.0
CPR at Boresight(dB):	15.0	15.0	15.0	15.0

Frequency Range(MHz):	1710-2690(Y1,Y4)			1710-2690(Y2,Y3)		
	1710-2170	2300-2490	2490-2690	1710-2170	2300-2490	2490-2690
Average Gain by all Beam Tilts (dBi):	12.8	13.2	13.3	12.5	13.1	13.2
Gain by all Beam Tilts Tolerance(dB):	±0.5	±0.7	±0.9	±0.6	±0.7	±1.0
Average Gain by Beam Tilt (dBi):	2°|12.8 7°|12.8 12°|12.8	2°|13.4 7°|13.3 12°|12.9	2°|13.8 7°|13.4 12°|12.8	2°|12.5 7°|12.5 12°|12.3	2°|13.3 7°|13.2 12°|12.7	2°|13.8 7°|13.2 12°|12.6
Horizontal Beamwidth Tolerance(°):	±7.0	±9.0	±15.0	±7.0	±7.0	±8.0
Vertical Beamwidth Tolerance(°):	±2.0	±2.0	±1.2	±2.6	±1.8	±1.7
Front to back Total Power at 180° ± 30°(dB):	23.0	22.0	22.0	22.0	22.0	22.0
CPR at Boresight(dB):	15.0	15.0	15.0	13.0	15.0	15.0

Mechanical Data

Antenna Dimensions (mm):	1095×498×197
Packing Dimensions (mm):	1365x585×290
Antenna Net Weight/Bracket (kg):	24/5.9
Antenna Gross Weight (kg):	34.5
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069381, Adjustable Downtilt 0°-20°



Environmental Ratings

Humidity:	95%RH@+30℃
Temperature (℃):	-40～+70
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside: 689/123/699
Max. Wind velocity (km/h) :	200

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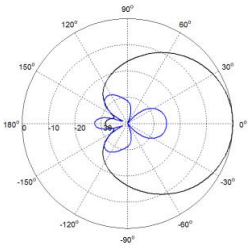
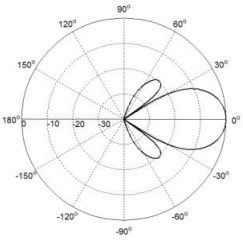
Internal RET Specifications

RET Type:	Replaceable RET
RET protocol:	AISG 2.0 /3 GPP
Input voltage range(V):	10-30 DC
Power consumption(W):	< 5 (motor activated , single RET) < 1 (stand by, single RET), < 1.5 (stand by, 12V)
Adjustment time (full range) (s):	< 120 (typically, depending on antenna type)
RET connector:	1 pair of AISG 5 pin male & female
Pin assignment according AISG:	8 pin circular connector conforming to IEC 60130-9 - Ed. 3.0
Lightning protection (kA):	5 (8/20 μs Differential mode), 8 (8/20 μs Common mode)

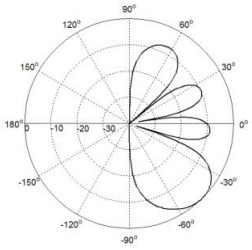
Typical Patterns



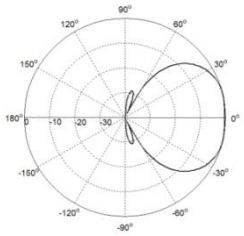
Single Column



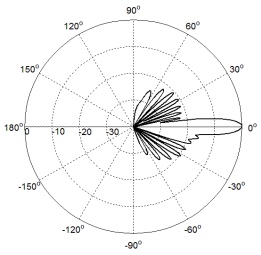
Service Beam @0deg



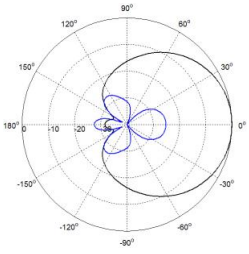
Service Beam @60deg



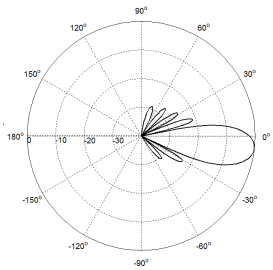
Broadcast Beam



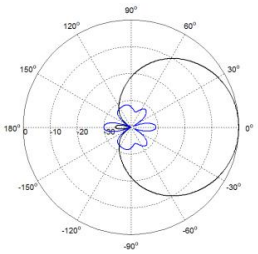
Elevation



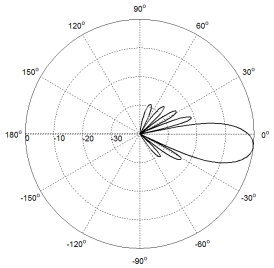
Azimuth(698–960MHz)



Elevation(698–960MHz)



Azimuth(1710–2690MHz)



Elevation(1710–2690MHz)

Bottom View

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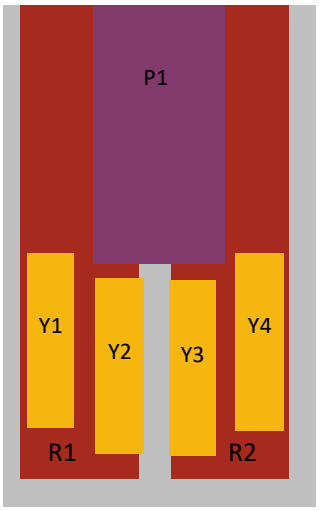
Correlation Table

Frequency Range	Array	Connector	RET
698–960 MHz	R1	1-2	BRxxx.....R1
698–960 MHz	R2	3-4	BRxxx.....R2
1710–2690 MHz	Y1	5-6	BRxxx.....Y1
1710–2690 MHz	Y2	7-8	BRxxx.....Y2
1710–2690 MHz	Y3	9-10	BRxxx.....Y3
1710–2690 MHz	Y4	11-12	BRxxx.....Y4
3300-3800 MHz	P1	1xMQ5,1xMQ4	BRxxx.....P1



MQ4/MQ5 Port Mapping

Connector	Pin	Frequency Range	Polarization/Port
MQ5	1	3300-3800 MHz	+45
	2	3300-3800 MHz	+45
	3	3300-3800 MHz	+45
	4	3300-3800 MHz	+45
	C	3300-3800 MHz	Calibration port
MQ4	5	3300-3800 MHz	-45
	6	3300-3800 MHz	-45
	7	3300-3800 MHz	-45
	8	3300-3800 MHz	-45