

X Pol Panel TD Antenna 3300-3800MHz 80°10dBi 3° FET

XXXXX Pol 698-960/4×1695-2690MHz 65°/65°10/11dBi 3° FET

Electrical Specifications (3300-3800MHz)

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General parameters	Frequency range (MHz):		3300-3800(P1)
	Polarization:		±45°
	Electrical downtilt (°):		3 Fixed
	Connector Type:		1xMQ5,1xMQ4
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port (dB) :		-26±2
	Amp/phase Deviation:		<1.2/12°
	VSWR:		<1.5
	Max. Power Per Port (W):		40
	Co-polarization isolation between ports (dB):		>20
	Cross-polarization isolation between ports (dB) :		>19
Radiation parameters	Single Column	Horizontal 3dB Beamwidth (°):	80±10
		Vertical 3dB Beamwidth (°):	31
		Front to Back Ratio (dB):	23
		Gain (dBi):	9.5±0.5
		Cross polar ratio (dB):	>15 (0°)/>8 (±60°)
	Broadcast Beam	Horizontal 3dB Beamwidth (°):	65±10
		Gain (dBi):	11.0±0.5
		Front to Back Ratio (dB):	25
		Vertical 3dB Beamwidth (°):	31
		Cross polar ratio (dB):	>15 (0°)/>8 (±60°)
	Service Beam @ 0deg	Gain (dBi):	14.5±0.5
		Horizontal 3dB Beamwidth (°):	19
		Horizontal Sidelobe Level (dB):	<-12
		Cross polar ratio (0°) (dB):	15
		Front to Back Ratio (dB):	25
	Service Beam@ 60deg	Gain (dBi):	11.0±0.5
Horizontal 3dB Beamwidth (°):		20	
Horizontal Sidelobe Level (dB):		<-3	

Electrical Specifications (698-960/1695-2690 MHz)

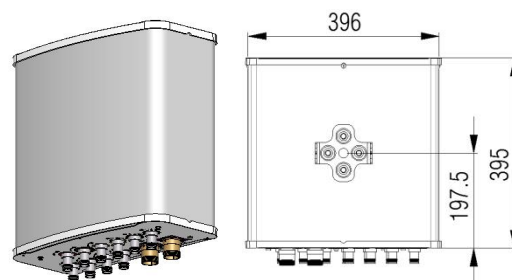
Frequency Range (MHz):	698-960(R1)			1695-2690(Y1,Y2,Y3,Y4)		
	698-806	806-880	880-960	1695-2170	2300-2490	2490-2690
Gain (dBi):	8.8±0.5	9.2±0.5	9.6±0.5	10.0±0.5	10.6±0.5	11.0±0.5
Return Loss (dB):	>14 (VSWR<1.5)					
Polarization:	±45°					
Horizontal 3dB beamwidth (°):	68	65	62	68	65	60
Vertical 3dB beamwidth (°):	44	42	39	36	33	31
Electrical Downtilt (°):	3 Fixed			3 Fixed		
Front to Back Ratio @180±30°(dB):	21	22	23	25	25	25
Cross Polar Ratio 0° (dB):	15	15	15	15	15	15
polarization Isolation (dB):	>20					
Interband Isolation (dB):	>20					
Max. Power Per Port (W):	150			100		
Intermodulation IM3 (dBc):	<-150 (2x43dBm)					
Impedance (ohm):	50					
Lightning Protection:	DC Grounded					
Connector Type:	10x4.3-10 Female					

BASTA Electrical Specifications

Frequency Range(MHz):	698-960(R1)			4x1695-2690(Y1,Y2,Y3,Y4)			3300-3800(P1)
	698-806	806-880	880-960	1695-2170	2300-2490	2490-2690	
Average Gain by all Beam Tilts (dBi):	8.64	8.92	9.15	10.40	10.83	11.03	9.85
Gain by all Beam Tilts Tolerance(dB):	±0.52	±0.56	±0.41	±0.55	±0.50	±0.68	±0.71
Horizontal Beamwidth Tolerance(°):	±4.45	±6.82	±6.25	±6.65	±6.38	±6.84	±10.26
Vertical Beamwidth Tolerance(°):	±3.34	±3.25	±3.67	±3.32	±3.03	±3.85	±4.18
Front to back Total Power at 180° ± 30°(dB):	21.25	22.57	23.12	25.76	26.27	25.73	23.60
CPR at Boresight(dB):	21.21	19.26	20.86	21.91	22.32	21.61	20.99

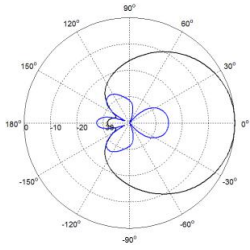
Mechanical Data

Antenna Dimensions (mm):	395×396×190
Packing Dimensions (mm):	650x465x305
Antenna Net Weight/Bracket (kg):	6.8/2.6
Antenna Gross Weight (kg):	10.5
Radome Material:	Fiberglass
Pipe OD (mm):	70-110
Mounting Kits (Included):	BA.K.04.00052, horizontal adjustable -35°-+35°, vertical adjustable -45°-+45°

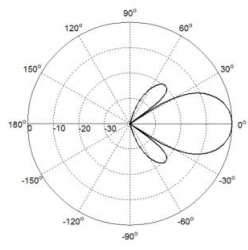

Environmental Ratings

Humidity:	95%RH@+30°C
Temperature (°C):	-50~+60
Wind Load @150 km/h (N):	Frontal/Lateral/Rearside:197/57/260
Max. Wind velocity(km/h) :	200

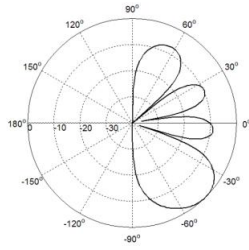
Typical Patterns



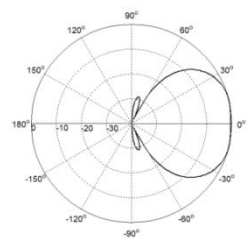
Single Column



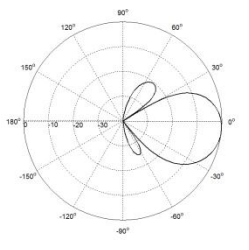
Service Beam @0deg



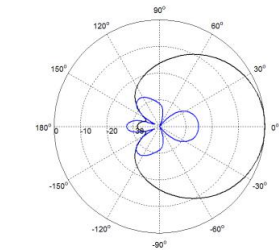
Service Beam @60deg



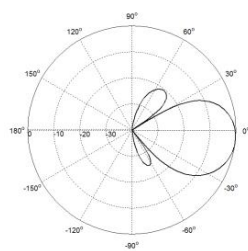
Broadcast Beam



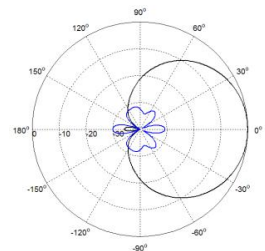
Elevation



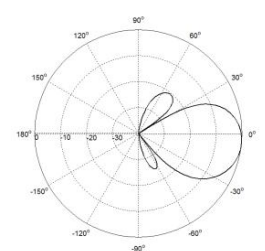
Azimuth(698-960MHz)



Elevation(698-960MHz)



Azimuth(1695-2690MHz)



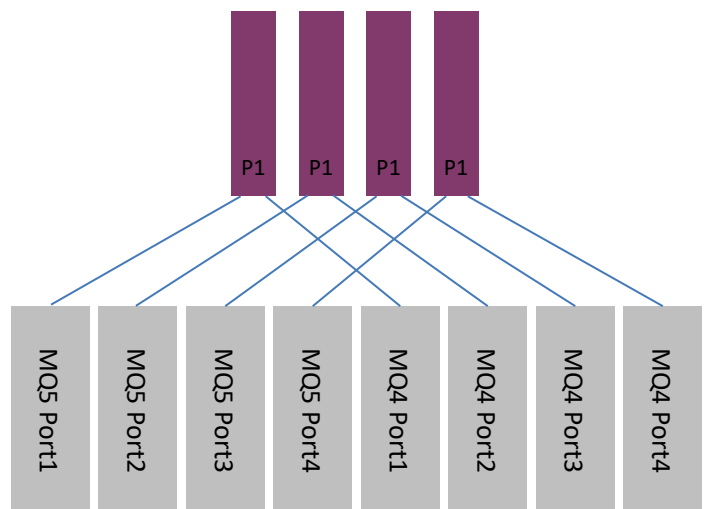
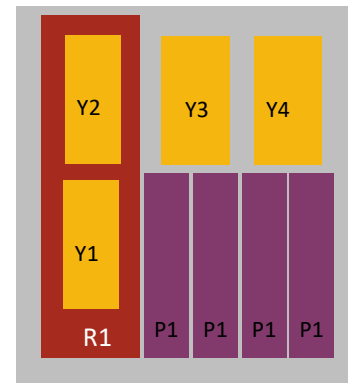
Elevation(1695-2690MHz)

Correlation Table

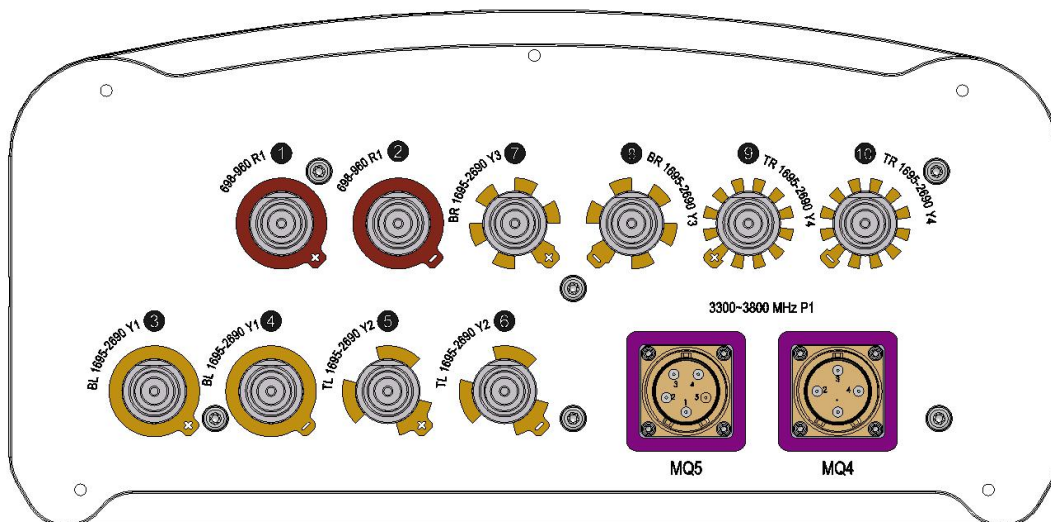
Frequency Range	Array	Connector
698-960 MHz	R1	1-2
1695-2690 MHz	Y1	3-4
1695-2690 MHz	Y2	5-6
1695-2690 MHz	Y3	7-8
1695-2690 MHz	Y4	9-10
3300-3800 MHz	P1	1xMQ5, 1xMQ4

MQ4/MQ5 Port Mapping

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



Bottom View



Broadcast Beam Weight Value for Reference					
/	/	P1/P5	P2/P6	P3/P7	P4/P8
3C(3300-3800MHz)	Amp[li]	1	1	0.65	0.25
	Phase	0	0	180	0