S-V2U2L4PX7.4.4F3-C

XX Pol Panel TD Antenna 2×3300-3800MHz 70° 13.5 dBi 3° Fixed Tilt

XXXXXX Pol 2×698-960/4×1710-2690MHz 65° /65° 12.5/14dBi 3° /3° Fixed Tilt

Electrical Specifications (3300-3800MHz)				
General parameters	Frequency range (MHz):			3300-3800(P1,P2)
	Polarization:			±45
	Electrical downtilt (°):			3° Fixed Tilt
	Grounding:			DC Grounded
	Connector Type:			2×MQ5, 2×MQ4
Calibration and electrical parameters	Coupling factor between calibration port and each antenna port (dB) :			-26±2
	Max Amp/phase Deviation:			<1.2dB/ 12°
	VSWR:			<1.5
	Max. Power Per Port (W):			40
	Isolation (dB):			>20
Radiation parameters	Single Column	Horizontal 3dB Beamwidth (°):		68±11
		Vertical 3dB Beamwidth (°):		9.5±0.9
		Front to Back Ratio (dB):		≥20
		Gain (dBi):	Bottom	13.7±0.9
			Top	12.9±0.9
		Cross polar ratio (dB):		>15 (0°)/ >5 (±60°)
	Broadcast Beam	Horizontal 3dB Beamwidth (°):		68±11
		Gain (dBi):	Bottom	13.7±0.9
			Top	12.9±0.9
		Front to Back Ratio (dB):		>20
		Vertical 3dB Beamwidth (°):		9.5±0.9
		1st Upper Sidelobe Suppression (dB):		>12
	Service Beam @ 0deg	Gain (dBi):	Bottom	18.7±0.9
			Top	17.9±0.9
		Horizontal 3dB Beamwidth (°):		20±1
		Cross polar ratio (0°) (dB):		>14
		Front to Back Ratio (dB):		>25

Our products are compliant to the EU Directive RoHS as well as to other environmentally relevant regulations.

Product Data Sheet

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BROADRADIO

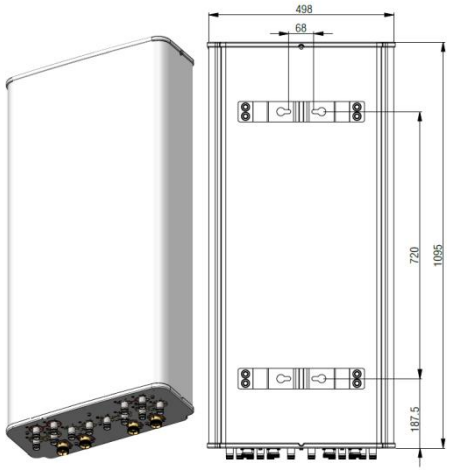
Electrical Specifications (698-960/1710-2690 MHz)							
Frequency Range (MHz):		698-960(R1,R2)			1710-2690(Y1,Y2,Y3,Y4)		
		698-806	806-880	880-960	1710-2170	2300-2490	2490-2690
Gain (dBi):	Bottom	11.9±0.4	12.6±0.3	12.6±0.3	13.5±0.7	14.6±0.5	15.0±0.5
	Top				13.4±0.5	14.1±0.5	14.7±0.5
Return Loss (dB):		>14 (VSWR<1.5)					
Polarization:		±45°					
Horizontal 3dB beamwidth (°):		66±14	70±9	75±6	75±5	71±8	56±6
Vertical 3dB beamwidth (°):		22±2	19±2	17±2	18±3	13±1	12±1
Electrical Downtilt (°):		3° Fixed Tilt			3° Fixed Tilt		
Front to Back Ratio @180±30°(dB):		>18	>19	>18	>22	>22	>22
Cross Polar Ratio 0° (dB):		>13	>13	>13	>13	>13	>13
Intraband Isolation (dB):		>23					
Interband Isolation (dB):		>23					
Max. Power Per Port (W):		150			100		
Intermodulation IM3 (dBc):		<-150 (2×43dBm)					
Impedance (ohm):		50					
Lightning Protection:		DC Grounded					
Connector Type:		12×4.3-10 Female					

BASTA Electrical Specifications

Frequency Range(MHz):	3300-3800(P1,P2)	1710-2690(Y1,Y2,Y3,Y4)			698-960(R1,R2)		
		1710-2170	2300-2490	2490-2690	698-806	806-880	880-960
Average Gain by all Port(dBi):	13.3	13.4	14.3	14.8	11.9	12.6	12.6
Gain by all Port Tolerance(dBi):	1	0.7	0.5	0.5	0.4	0.3	0.3
Horizontal 3dB beamwidth (°)	68	75	72	56	66	70	75
Vertical 3dB beamwidth (°)		18	13.7	12.5	22	19	17
Horizontal Beamwidth Tolerance(°):	11	5	8	6	14	9	6
Vertical Beamwidth Tolerance(°):	1	2.5	0.5	1	2	2	2
1st Upper Sidelobe Suppression (dB) :	12	/	/	/	/	/	/
Front to back Total Power at 180° ± 30°(dB):	20	24	25	25	20	20	20
CPR at Boresight(dB):	13	15	15	15	15	15	15

Mechanical Data

Antenna Dimensions (mm):	1095×498×197
Packing Dimensions (mm):	1355x580×285
Antenna Net Weight/Bracket (kg):	19/5.9
Antenna Gross Weight (kg):	28.6
Radome Material:	Fiberglass
Pipe OD (mm):	50-115
Mounting Kits (Included):	BA.K.04.00069601, Adjustable Downtilt 0°-24°



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

RoHS Our products are compliant to the EU Directive RoHS as well as to other environmentally relevant regulations.

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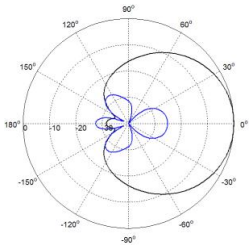
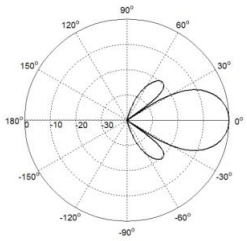
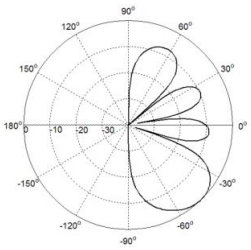
Typical Patterns



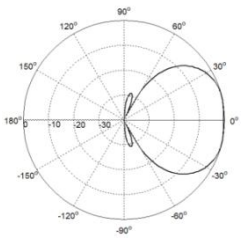
Single Column



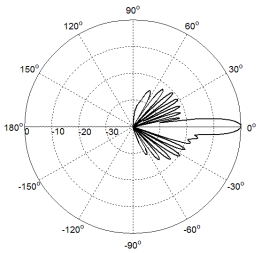
Service Beam @0deg



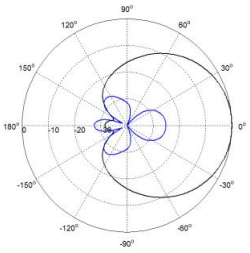
Service Beam @60deg



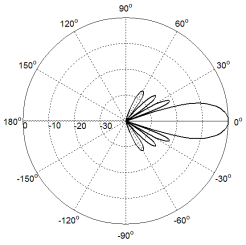
Broadcast Beam



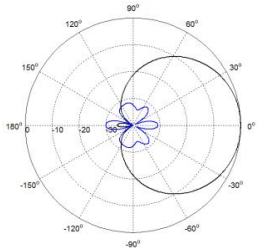
Elevation



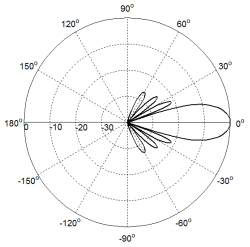
Azimuth(698–960MHz)



Elevation(698–960MHz)



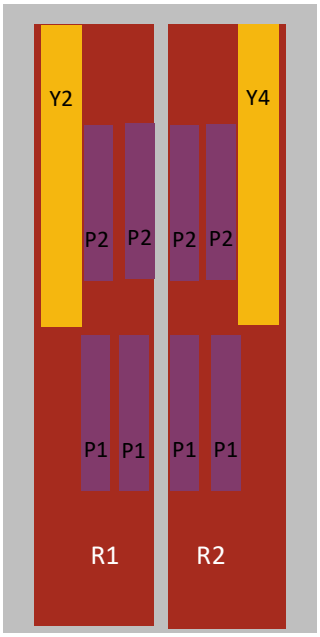
Azimuth(1710–2690MHz)



Elevation(1710–2690MHz)

Correlation Table

Frequency Range	Array	Connector
698–960 MHz	R1	1-2
698–960 MHz	R2	3-4
1710–2690 MHz	Y1	5-6
1710–2690 MHz	Y2	7-8
1710–2690 MHz	Y3	9-10
1710–2690 MHz	Y4	11-12
3300–3800 MHz	P1	1xMQ5,1xMQ4
3300–3800 MHz	P2	1xMQ5,1xMQ4



Broadcast Beam Weight Value for Reference

		1/5	2/6	7/3	8/4
P1(3300-3800MHz)	Amp[Ii]	1	1	1	1
	Phase	0	0	0	-180
P2(3300-3800MHz)	Amp[Ii]	1	1	1	1
	Phase	0	0	0	-180

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