

Multiband Base Station Antenna

Model No.: H-BDX-0203-1415-065-DGT-DF/EF



	R1	R2	Y1	Y2	Y3	Y4	Y5	Y6
Frequency range	698-960	698-960	1695-2690	1695-2690	1695-2690	1695-2690	1695-2690	1695-2690
HBW	65	65	65	65	65	65	65	65
Gain	14.5	14.5	15	15.5	15	15.5	15	15.5
Downtilt range	2-16	2-16	2-12	2-12	2-12	2-12	2-12	2-12

Electrical specifications

R1, R2

Frequency Range(MHz)		698-960		
		698-824	806-896	880-960
Gain(dBi)	at mid Tilt	13.6	14.1	14.6
	over all Tilts	13.6±0.5	14.0±0.5	14.5±0.4
Azimuth Beamwidth(°)		68±4.5	65±4.5	60±4.5
Front to back Ratio(dB)		>22	>24	>25
CPR @ Boresight(dB)		>18	>18	>18
Azimuth Beam Port-to-Port Tracking(dB)		<2.0	<2.5	<2.5
Azimuth beam squint(°)		<5	<5	<5
Elevation Beamwidth(°)		15.9±1.1	14.4±0.9	13.7±0.8
Electrical Downtilt(°)		2-16, continuously adjustable		
Tilt Accuracy(°)		<0.6	<0.7	<0.7
Upper Side Lobe Suppression(Typ.) (dB)		>15	>15	>15
Cross-Polar Isolation (dB)		> 25		
Port to Port Isolation (dB)		> 25		
Max. Average Input Power per Port (W)		350(at 50°C ambient temperature)		

Y1, Y3, Y5

Frequency Range(MHz)		1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain(dBi)	at mid Tilt	14.2	14.4	14.8	15.1	15.0
	over all Tilts	14.0±0.6	14.2±0.5	14.6±0.5	14.9±0.4	14.8±0.5

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Azimuth Beamwidth(°)	68±4.6	64±3.2	67±3.5	61±4.4	60±5.2
Front to back Ratio(dB)	≥25	≥25	>25	≥26	≥26
CPR @ Boresight(dB)	>18	>19	>19	>18	>18
Azimuth Beam Port-to-Port Tracking(dB)	<1.9	<1.9	<2.2	<2.2	<2.5
Azimuth beam squint(°)	<5	<5	<5	<5	<5
Elevation Beamwidth(°)	14.0±1.0	13.0±0.8	12.1±0.8	10.4±0.5	9.5±0.5
Electrical Downtilt(°)	2-12, continuously adjustable				
Tilt Accuracy(°)	<0.6	<0.6	<0.5	<0.5	<0.6
Upper Side Lobe Suppression(Typ.) (dB)	>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)	> 25				
Port to Port Isolation (dB)	> 28				
Max. Average Input Power per Port (W)	250(at 50°C ambient temperature)				

Y2, Y4, Y6

Frequency Range(MHz)		1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2400	2500-2690
Gain(dBi)	at mid Tilt	14.4	14.6	15.0	15.3	15.2
	over all Tilts	14.2±0.6	14.4±0.5	14.8±0.5	15.1±0.4	15.0±0.5
Azimuth Beamwidth(°)		68±4.6	64±3.2	67±3.5	61±4.4	60±5.2
Front to back Ratio(dB)		>25	>25	>25	>26	>26
CPR @ Boresight(dB)		>18	>20	>20	>18	>18
Azimuth Beam Port-to-Port Tracking(dB)		<2.1	<2.0	<2.0	<2.3	<2.4
Azimuth beam squint(°)		<5	<5	<5	<5	<5
Elevation Beamwidth(°)		15±1.0	13.6±0.8	13.0±0.8	11.5±0.5	10.3±0.5
Electrical Downtilt(°)		2-12, continuously adjustable				
Tilt Accuracy(°)		<0.6	<0.6	<0.6	<0.6	<0.7
Upper Side Lobe Suppression(Typ.) (dB)		>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)		> 25				
Port to Port Isolation (dB)		> 28				
Max. Average Input Power per Port (W)		250(at 50°C ambient temperature)				

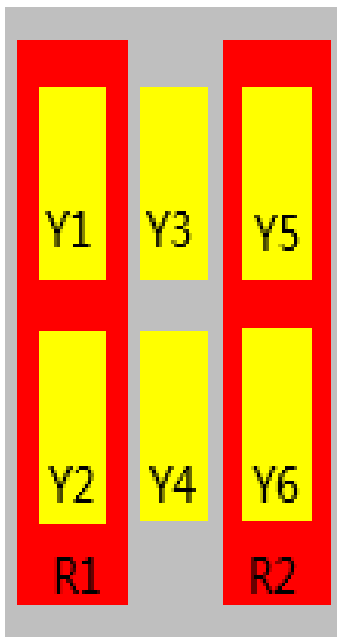
Electrical Specifications for All Systems

Polarization	±45°
Impedance (Ω)	50
VSWR / Return loss(dB)	1.5 / 14
Inter-band Isolation (dB)	>25
PIM 3 rd @ 2*20W (dBc)	<-150
Lightning Protection	DC Ground

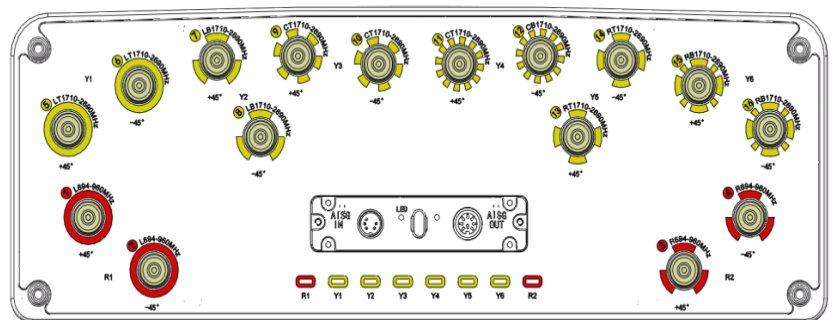
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Mechanical Specifications	
Connector Type	4.3/10(F) x 16
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range	0-12
Radome Material	Fiberglass
Antenna Weight(kg)	33.5(clamps excl.) / 38(clamps incl.)
Bracket Diameter(mm)	50-120
Maximum Wind Speed(km/h)	200
Wind Load @ 150 Km/h Frontal, N	850
Wind Load @ 150 Km/h Rear side, N	885
Antenna Dimensions, HxWxD, mm	1497x497 x197
Packing Dimensions, HxWxD, mm	1697x592x317

Preliminary values based on NGMN-P-BASTA V10.0



Arrays of the antenna



Ports of the antenna

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