

Multiband Base Station Antenna

Model No.: H-BDX-0203-1315-065-DGT-DF/EF



	R1	Y1	Y2	Y3
Frequency range	698-960	1695-2690	1695-2690	1695-2690
HBW	65	65	65	65
Gain	13	15	14	14
Downtilt range	2-16	2-12	2-12	2-12

Electrical specifications

R1

Frequency Range(MHz)		698-960		
		698-806	790-894	880-960
Gain(dBi)	at mid Tilt	12.5	13.0	13.5
	over all Tilts	12.5 ± 0.6	13.0 ± 0.8	13.5 ± 0.6
Azimuth Beamwidth(°)		67±5.5	65±4.5	65±4.5
Front to back Ratio, ±30°(dB)		>24	>25	>25
CPR @ Boresight(dB)		>19	>18	>17
CPR, Over sector(dB)		>8.0	>8.0	>8.0
Azimuth Beam Port-to-Port Tracking(dB)		<1.9	<2.1	<2.3
Vertical-3dB Beamwidth (°)		26.0±3.1	24±3.0	22±3.6
Electrical Downtilt (°)		2-16, continuously adjustable		
Tilt Accuracy (°)		<1	<1	<1
First Upper Side Lobe Suppression (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

Frequency Range(MHz)		1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	14.5	14.7	15.0	15.2	15.5
	over all Tilts	14.3±0.8	14.5±0.7	14.8±0.8	15.0±0.5	15.3±0.8
Azimuth Beamwidth (°)		66±5.1	65±4.7	64±4.9	62±5.1	63±6.0
Front to back Ratio, ±30° (dB)		>25	>25	>25	>25	>25
CPR @ Boresight(dB)		>16	>17	>17	>17	>17

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CPR, Over sector(dB)	>9.0	>9.0	>8.0	>8.0	>5.0
Azimuth Beam Port-to-Port Tracking (dB)	<2.0	<2.0	<2.5	<2.0	<2.5
Vertical-3dB Beamwidth (°)	14.0±1.5	13.0±1.5	12.5±1.5	11.5±1.5	11.0±1.5
Electrical Downtilt (°)	2-12, continuously adjustable				
Tilt Accuracy (°)	<0.7	<0.7	<0.7	<0.7	<0.8
First Upper Side Lobe Suppression (dB)	>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)	> 25				
Port to Port Isolation (dB)	> 25				
Max. Average Input Power per Port (W)	250(at 50°C ambient temperature)				

Y2

Frequency Range(MHz)		1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	13.5	13.8	14.0	14.2	14.5
	over all Tilts	13.3±0.6	13.6±0.6	13.8±0.6	14.0±0.5	14.3±0.8
Azimuth Beamwidth (°)		66±5.5	65±5.1	66±5.1	62±4.9	63±6.0
Front to back Ratio, ±30° (dB)		≥25	≥25	>25	≥25	≥25
CPR @ Boresight(dB)		>22	>20	>20	>18	>18
CPR, Over sector(dB)		>10	>9.4	>9.0	>8.0	>7.0
Azimuth Beam Port-to-Port Tracking (dB)		<1.9	<1.8	<1.9	<2.2	<2.5
Vertical-3dB Beamwidth (°)		19.5±1.5	18±1.1	17±1.5	14.8±0.8	13.6±0.9
Electrical Downtilt (°)		2-12, continuously adjustable				
Tilt Accuracy (°)		<0.8	<0.8	<0.7	<0.7	<1
First Upper Side Lobe Suppression (dB)		>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)		> 25				
Port to Port Isolation (dB)		> 25				
Max. Average Input Power per Port (W)		250(at 50°C ambient temperature)				

Y3

Frequency Range(MHz)		1695-2690				
		1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Gain(dBi)	at mid Tilt	13.5	13.8	14.0	14.2	14.5
	over all Tilts	13.3±0.6	13.6±0.6	13.8±0.6	14.0±0.5	14.3±0.8
Azimuth Beamwidth(°)		66±5.5	65±5.1	66±5.1	62±4.9	63±6.0
Front to back Ratio, ±30°(dB)		≥25	≥25	>25	≥25	≥25
CPR @ Boresight(dB)		>22	>20	>20	>18	>18
CPR, Over sector(dB)		>10	>9.4	>9.0	>8.0	>7.0
Azimuth Beam Port-to-Port Tracking (dB)		<1.9	<1.8	<1.9	<2.2	<2.5
Vertical-3dB Beamwidth (°)		19.5±1.5	18±1.1	17±1.5	14.8±0.8	13.6±0.9
Electrical Downtilt (°)		2-12,continuously adjustable				

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Tilt Accuracy (°)	<0.8	<0.8	<0.7	<0.7	<1
First Upper Side Lobe Suppression (dB)	>15	>15	>15	>15	>15
Cross-Polar Isolation (dB)	> 25				
Port to Port Isolation (dB)	>25				
Max. Average Input Power per Port (W)	250(at 50°C ambient temperature)				

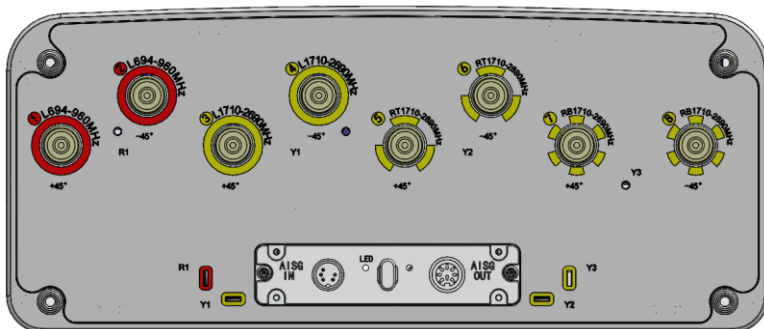
Electrical Specifications for All Systems

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

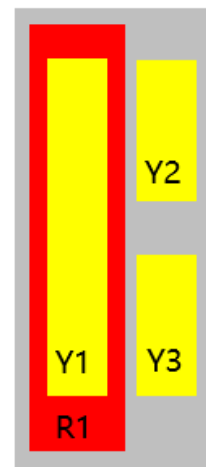
Mechanical Specifications

Connector Type	4.3-10(F) x 6
Connector position	Bottom
Electrical Tilt Control	Integrated RET, Each Band Individually Adjustable
Mechanical Tilt Range	0-16
Radome Material	Fiberglass
Antenna Weight(kg)	17(clamps excl.) / 20.5(clamps incl.)
Bracket Diameter(mm)	50-120
Maximum Wind Speed(km/h)	200
Wind Load @ 150 Km/h Frontal, N	450
Wind Load @ 150 Km/h Rear side, N	570
Antenna Dimensions, HxWxD, mm	997 x 377 x 157
Packing Dimensions, HxWxD, mm	1177 x 472 x 277

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



Ports of the antenna



Arrays of the antenna

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