



KBT 12-Ports 2L4H Antenna

KB6KB65D0727B12-17D18F-I-W

Electrical Specifications

Frequency Range (MHz)		2 × (690 – 960) (R1, R2)				
		690-792	792-880	880-960		
Polarization		±45°				
Electrical Downtilt (°)		2-12, Independently continuously adjustable				
Gain (dBi)	at mid Tilt	15.4	15.9	16.4		
	over all Tilts	15.3±0.9	15.8±0.9	16.3±0.9		
Side lobe suppression for first side lobe above main beam (dB)		>15	>15	>16		
Horizontal 3dB Beam Width (°)		65±5	62±4	63±6		
Vertical 3dB Beam Width (°)		11.1±0.9	10±0.9	8.9±0.5		
Cross-Polar Ratio, 0° (dB)		>20	>21	>21		
Front to Back Ratio, ±30° (dB)		>21	>22	>24		
Frequency Range (MHz)		2 × (1710 – 2690) (Y1, Y4)				
		1710-1880	1920-2170	2200-2500	2500-2690	
Polarization		±45°				
Electrical Downtilt (°)		2-12, Independently continuously adjustable				
Gain (dBi)	at mid Tilt	17.1	17.5	17.9	18.4	
	over all Tilts	16.9±0.5	17.4±0.5	17.7±0.5	18.3±0.5	
Side lobe suppression for first side lobe above main beam (dB)		>17	>17	>17	>15	
Horizontal 3dB Beam Width (°)		69±6	65±4	62±6	57±5	
Vertical 3dB Beam Width (°)		7.3±0.5	6.5±0.5	5.5±0.5	5.1±0.3	
Cross-Polar Ratio, 0° (dB)		>18	>21	>21	>21	
Front to Back Ratio, ±30° (dB)		>22	>25	>24	>24	
Frequency Range (MHz)		2 × (1427 – 2690) (Y2, Y3)				
		1427-1518	1710-1880	1920-2170	2200-2500	2500-2690
Polarization		±45°				
Electrical Downtilt (°)		2-12, Independently continuously adjustable				
Gain (dBi)	at mid Tilt	15.6	17.1	17.5	17.9	18.4
	over all Tilts	15.5±0.7	16.9±0.5	17.4±0.5	17.7±0.5	18.3±0.5
Side lobe suppression for first side lobe above main beam (dB)		>15	>16	>16	>15	>15
Horizontal 3dB Beam Width (°)		85±6	69±6	65±4	62±6	57±5
Vertical 3dB Beam Width (°)		8.5±0.6	7.3±0.5	6.5±0.5	5.5±0.5	5.1±0.3
Cross-Polar Ratio, 0° (dB)		>17	>18	>21	>21	>21
Front to Back Ratio, ±30° (dB)		>23	>22	>25	>24	>24
VSWR		≤ 1.5				
Intermodulation IM3 (dBc)		≤-150 (2 x 43 dBm carrier)				
Cross Polar Isolation (dB)		≥25 (R1, R2); ≥27 (Y1, Y4); ≥25 (Y2, Y3);				
Interband isolation (dB)		≥25				
Max. power per port (W)		250 (R1, R2); 200 (Y1, Y2, Y3, Y4)				
Impedance (Ω)		50				
Grounding		DC Grounding				

Values based on NGMN recommendations on Base Station Antenna Standards V12.0(BASTA V12.0)

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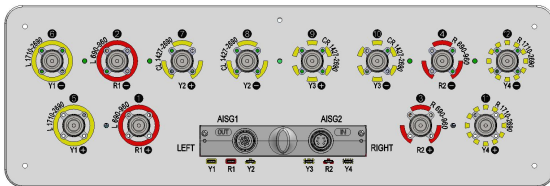


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Mechanical Specifications	
RET type	Integrated RET (AISG2.0/3GPP)
AISG Connectors (2 in 2 out)	4x8 pin (in: Male; out: Female)
Connector	12 x 4.3-10 Female, Bottom
Antenna dimensions (H x W x D) (mm)	1985 x 500 x 160
Packing dimensions (H x W x D) (mm)	2260 x 615 x 290
Antenna weight (kg)	35.3
Clamps weight (kg)	6.8
Diameter of installation pole (mm)	φ50 ~φ125
Radome material	Fiberglass
Radome color	Light grey
Operational temperature (°C)	-40 to +70
Wind load at 42m/s (N)	1481/ 364/ 1481 (Frontal/ Lateral/ Rearal)
Max. operational wind speed (km/h)	200

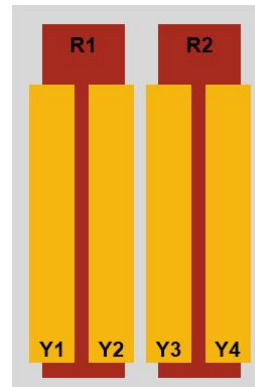
Layout and Pattern

Connector Position:



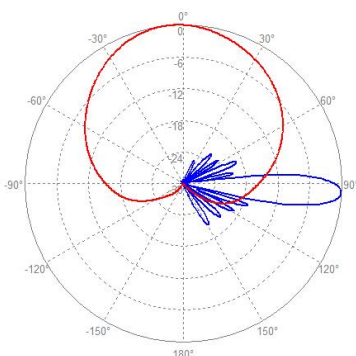
R1/ R2: 690-960MHz;
 Y1/ Y4: 1710-2690MHz;
 Y2/ Y3: 1427-2690MHz

Configuration Types:

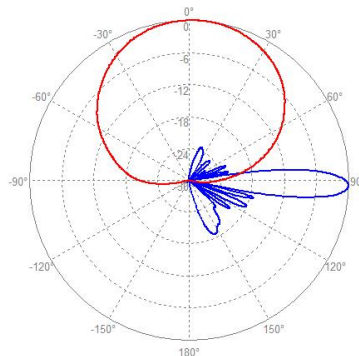


RET S/N:
 KBxxx-R1-xx.....;
 KBxxx-R2-xx.....;
 KBxxx-Y1-xx.....;
 KBxxx-Y2-xx.....;
 KBxxx-Y3-xx.....;
 KBxxx-Y4-xx.....;

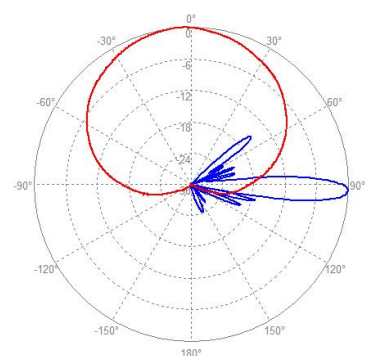
Pattern sample for reference:



R1/R2: 690-960MHz



Y1/Y4: 1710-2690MHz



Y2/Y3: 1427-2690MHz