



KBT 16-Ports 2L6H Antenna

KB65D0727A16-17D18S-I-W

Electrical Specifications						
Frequency Range (MHz)		2 × (690-960) (R1, R2)				
		690-824	806-896	880-960		
Polarization		±45°				
Electrical Downtilt (°)		2-12, continuously adjustable				
Gain (dBi)	At mid tilt	16.2	16.5	17.1		
	Over all tilts	16.1±0.9	16.4±0.9	17.0±0.6		
Side lobe suppression for first side lobe above main beam (dB)		>15	>15	>16		
Horizontal 3dB Beam Width (°)		66±6.5	62±5.5	61±5.5		
Vertical 3dB Beam Width (°)		8.5±0.7	7.7±0.7	7.1±0.7		
Front to Back Ratio, ±30° (dB)		>22	>24	>25		
Cross-Polar Ratio, 0° (dB)		>17	>17	>18		
Frequency Range (MHz)		3 × (1695-2690) (Y1, Y3, Y5)				
		1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		±45°				
Electrical Downtilt (°)		2-12, continuously adjustable				
Gain (dBi)	At mid tilt	17.1	17.2	17.2	17.5	17.8
	Over all tilts	16.9±0.5	17.1±0.5	17.2±0.8	17.5±0.9	17.7±1.0
Side lobe suppression for first side lobe above main beam (dB)		>16	>16	>16	>14	>14
Horizontal 3dB Beam Width (°)		63±8.5	62±6.5	60±8.0	56±7.0	56±6.5
Vertical 3dB Beam Width (°)		7.1±0.8	6.4±0.6	6.1±0.7	5.3±0.5	4.8±0.6
Front to Back Ratio, ±30° (dB)		>25	>25	>25	>26	>26
Cross-Polar Ratio, 0° (dB)		>16	>16	>17	>17	>17
Frequency Range (MHz)		3 × (1695-2690) (Y2, Y4, Y6)				
		1695-1880	1850-1990	1920-2170	2300-2400	2490-2690
Polarization		±45°				
Electrical Downtilt (°)		2-12, continuously adjustable				
Gain (dBi)	At mid tilt	16.6	16.9	16.9	17.3	17.4
	Over all tilts	16.5±0.8	16.9±0.7	16.8±0.8	17.1±0.9	17.3±1.0
Side lobe suppression for first side lobe above main beam (dB)		>16	>16	>16	>14	>14
Horizontal 3dB Beam Width (°)		63±8.5	64±6.5	61±8.0	57±7.0	56±6.5
Vertical 3dB Beam Width (°)		7.1±0.8	6.4±0.6	6.1±0.7	5.3±0.5	4.8±0.6
Front to Back Ratio, ±30° (dB)		>25	>25	>25	>26	>26
Cross-Polar Ratio, 0° (dB)		>16	>16	>17	>17	>17
VSWR		≤1.5				
Cross Polar Isolation (dB)		≥ 26				
Interband isolation (dB)		≥ 26				
Intermodulation IM3 (dBc)		≤-153 (2 x 43 dBm carrier)				
Max. power per port (W)		200				
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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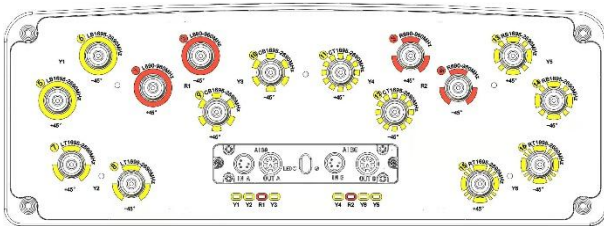
KBT 16-Ports 2L6H Antenna

Mechanical Specifications

RET type	Integrated RET (AISG2.0/3GPP)
AISG Connectors (1 in 1 out/ 2 in 2 out)	2x8 pin/ 4x8 pin (in: Male; out: Female)
Connector	16 x 4.3-10 Female, Bottom
Antenna dimensions (H x W x D) (mm)	2750 x 467 x 167
Packing dimensions (H x W x D) (mm)	2930 x 542 x 277
Antenna weight (kg)	45
Clamps weight (kg)	9
Diameter of installation pole (mm)	φ50~φ125
Tilt Bracket (°)	0~10
Radome material	Fiberglass
Radome color	Light grey
Operational temperature (°C)	-40 to +60
Wind load at 42m/s (N)	1185/ 525/ 1325 (Frontal/ Lateral/ Rearal)
Max. operational wind speed (km/h)	200

Layout and Pattern

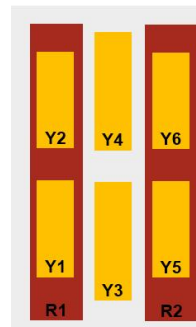
Connector Position:



R1/R2: 690-960MHz;

Y1/Y2/Y3/Y4/Y5/Y6: 1695~2690MHz;

Configuration Types:



RET S/N:

KBxxx-R1-xx.....;

KBxxx-R2-xx.....;

KBxxx-Y1-xx.....;

KBxxx-Y2-xx.....;

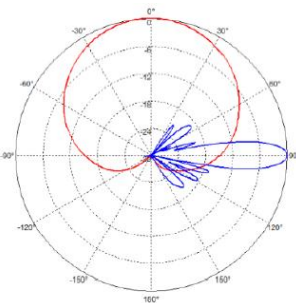
KBxxx-Y3-xx.....;

KBxxx-Y4-xx.....;

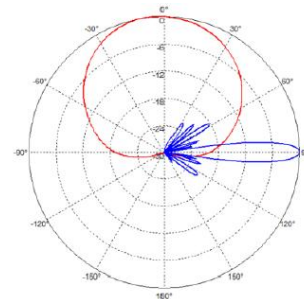
KBxxx-Y5-xx.....;

KBxxx-Y6-xx.....;

Pattern sample for reference:



690~960 MHz



1695~2690 MHz