



# KBT 12 Ports 2L+8TR(2327) BF 2.5m Antenna

## KB65D90D0727A12-17D16F-I-W

Electrical Specifications				
Frequency Range (MHz)		2 x 690–960 (R1, R2)		
		690-803	791-862	880-960
Polarization		±45		
Electrical Downtilt (°)		2-12, Independently continuously adjustable		
Gain (dBi)	at mid Tilt	16.1	16.7	17.1
	over all Tilts	16.0±0.7	16.6±0.7	17.0±0.6
Side lobe suppression for first side lobe above main beam (dB)		> 15	> 15	> 15
Horizontal 3dB Beam Width t (°)		66±7	61±6	61±6
Vertical 3dB Beam Width t (°)		8.8±0.8	8.1±0.5	7.2±0.6
Cross-Polar Ratio, 0° (dB)		> 18	> 18	> 18
Front to Back Ratio, ±30° ( dB)		> 21	> 21	> 21
VSWR		≤1.5		
Intermodulation IM3 (dBc)		≤-153 (2 x 43 dBm carrier)		
Cross Polar Isolation (dB)		≥25 (R1, R2);		
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)				

TDD LTE Electrical Specifications			
Radiation parameters	Frequency Range (MHz)		2300-2690(Y1)
	Single column beam	Gain (dBi)	15.3±1.0
		Horizontal 3dB Beam Width t (°)	95±15
		Front to Back Ratio, ±30° (dB)	> 23
		Cross-Polar Ratio, 0° (dB)	> 18
		Vertical 3dB Beam Width t (°)	5.7±0.7
		Side lobe suppression for first side lobe above main beam (dB)	> 16
	65° Broadcast beam	Gain (dBi)	16.4±1.4
		Horizontal 3dB Beam Width t (°)	68±13
		Front to Back Ratio, ±30° (dB)	> 23
		Vertical 3dB Beam Width t (°)	5.6±0.6
		Side lobe suppression for first side lobe above main beam (dB)	> 16
	Service beam	0° direction Beam Gain (dBi)	19.7±1.0
		0° direction Beam Horizontal 3dB Beam Width (°)	27
		0° direction Beam horizontal side lobe suppression (dB)	> 16
		0° direction Beam Front to Back Ratio, ±30° (dB)	> 25
		0° direction Beam Cross-Polar Ratio, 0° (dB)	> 18

Add: No.30 Dongyang 3rd Road, Danzao Town, Nanhai District, Foshan City, Guangdong, China 528216

Tel: +86-757-88022860

Email: kbt@kenbotong.com

Web: <http://www.kenbotong.com>

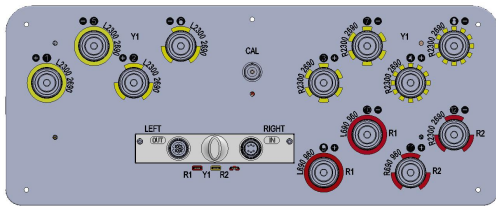


# KBT 12 Ports 2L+8TR(2327) BF 2.5m Antenna

Mechanical Specifications	
RET type	Integrated RET (AISG2.0/3GPP)
AISG Connectors (1 in 1 out)	2 x 8 pin (in: Male; out: Female)
Connector	12 x 7/ 16 Female , Cal : 1 x N Female, Bottom
Antenna dimensions (H x W x D) (mm)	2560 x 469 x 185
Packing dimensions (H x W x D) (mm)	2850 x 535 x 247
Antenna weight (kg)	40
Clamps weight (kg)	6.3
Diameter of installation pole(mm)	φ50 -φ110
Radome material	Fiberglass
Radome color	Light grey
Operational temperature (°C)	-40 to +70
Wind load at 42m/s (N)	1440/ 521/ 1528 (Frontal/ Lateral/ Rearal)
Max. operational wind speed (km/h)	200

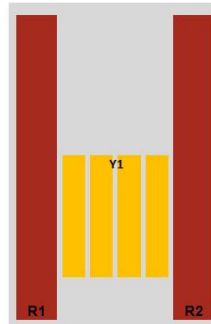
## Layout and Pattern

### Connector Position:



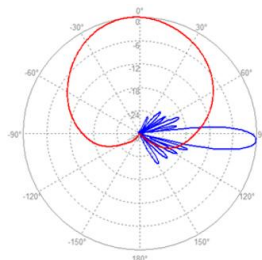
R1/ R2: 690-960 MHz;  
 Y1: 2300-2690 MHz;

### Configuration Types:



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

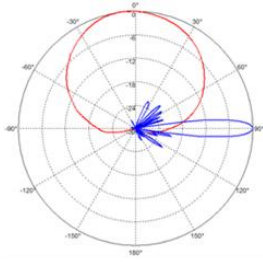
### Pattern sample for reference:



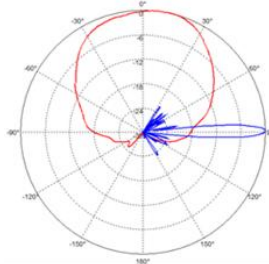
R1/ R2: 690-960 MHz



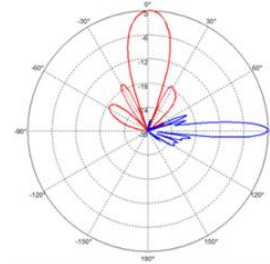
# **KBT** 12 Ports 2L+8TR(2327) BF 2.5m Antenna



Single column  
Y1: 2300-2690 MHz



65° Broadcast  
Y1: 2300-2690 MHz



Service 0°  
Y1: 2300-2690 MHz