

**KBT**
1710-2170*2/3300-3600MHz 65° 16/16.5dBi 0-10/2-12°
Adjustable Smart Antenna
KM65D1735A12-16D16F-I**FDD Electrical Specifications**

Frequency Band (MHz)	1710-2170
Polarization (°)	±45°
Gain (dBi)	≥16
Horizontal Power Beam Width (°)	65±6
Vertical Power Beam Width (°)	≥6
Front-to-Back Ratio (dB)	≥25
Cross Polar Ratio(0°)(dB)	≥15
Cross Polar Ratio(±60°)(dB)	≥10
Upper Sidelobe Suppression(dB)	≤-15
Electrical Downtilt (°)	0-10
Electrical Downtilt Accuracy (°)	±1.0
VSWR	≤1.5
Isolation (dB)	≥26
Intermodulation PIM3 (2×43dBm carrier)	≤-107
Average Power Tolerance (W)	≥250
Impedance (Ω)	50
Ground Protection	DC Grounding

TDD Electrical Specifications

General Parameters		Frequency Band (MHz)		3300-3600	
		Polarization (°)		±45	
		Beam Tilt (°)		2-12	
		Beam Tilt Accuracy (°)		±1.0	
Calibration and Electrical Parameters		Coupling, Amp, Cal. Port to Antenna Ports(dB)		-26±2	
		Coupling, Max. Amp delta, Cal. Port to Antenna Ports (dB)		≤0.9	
		Coupling, Max. Phase delta, Cal. Port to Antenna Ports (°)		≤7	
		VSWR of All Ports		≤1.50	
		Average Power Tolerance of Each Port(W)		≥80	
		Isolation of Co-pol Ports(dB)		2°-6°Decline	≥20
				7°-12°Decline	≥25
		Isolation of X-pol Ports(dB)		2°-6°Decline	≥25
				7°-12°Decline	≥25
Radiation Parameters	Single Column	Horizontal Beam Width(°)		65±10	
		Gain(dBi)		≥16.5	
		Edge Power Decline Between ±60° (dB)		12±3	
		Vertical Beam Width(°)		≥4.5	
		Cross Polar Ratio(0°)(dB)		≥15	
		Cross Polar Ratio(±60°)(dB)		≥8	
		Front to Back Ratio(dB)		≥23	
		USLS (dB)		≤-14	

No.2 ChanxiuRoad, Foshan, Guangdong, China. 528061 Tel: +86-757-82219788 Fax: +86-757-82212072

Email: kbt@kenbotong.com Web: http://www.kenbotong.com

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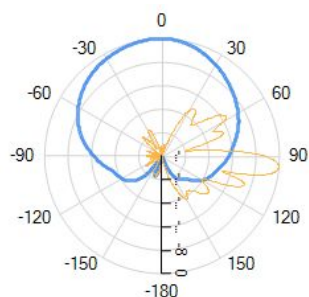
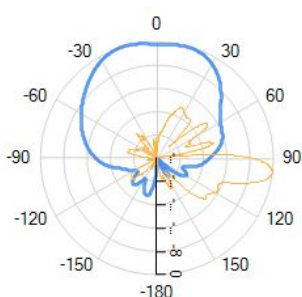
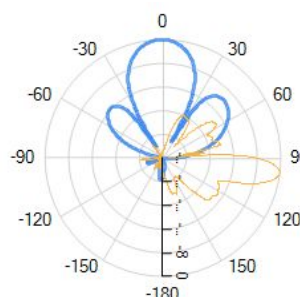
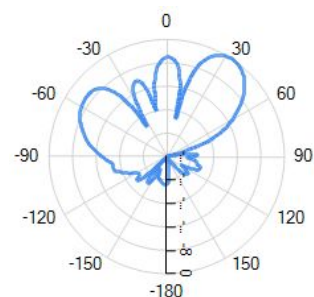
	Broadcasting Beam	Gain(dBi)	≥16.5
		SPR(±32.5°)(%)	72±7
		SPR(±60°)(%)	≥90
		Edge Power Decline Between ±60° (dB)	12±3
		Vertical Beam Width(°)	≥4.5
		Front to Back Ratio(dB)	≥25
		USLS (dB)	≤-14
	Operating Beam	Gain of 0° Operating Beam (dBi)	≥22.5
		HBW of 0° of 0° Operating Beam (°)	≤25
		Side Lobe Level of 0° Operating Beam (dB)	≤-12
		Gain of ±60° Operating Beam (dBi)	≥17
		HBW of ±60° Operating Beam (°)	≤25
		Side Lobe Level of ±60° Operating Beam (dB)	≤3
		SPR of 0° Operating Beam (Boresight, dB)	≥20
		FBR of 0° Operating Beam (dB)	≥28

Mechanical Specifications

Connector	TDD: L32-4/5 (Four-core/Five-core) Cluster Connector*2 FDD: 7/16 DIN-Female*4
Connector Position	Bottom
Height/Width/Depth (mm)	1600*320*140
Packing Size (mm)	1835*405*255
Antenna Weight (kg)	17.1
Bracket Weight(kg)	4
Radome Material	Fiberglass
Radome Color	Gray
Mechanical Tilt(°)	0~10
Operating Temperature (°C)	-40~60
Max. Wind Velocity (m/s)	60
Diameter of Installation Pole(mm)	Φ50~Φ115
Mounting Kit	JM-900DZA
RET Type	Integrated RET, replaceable

Typical Pattern

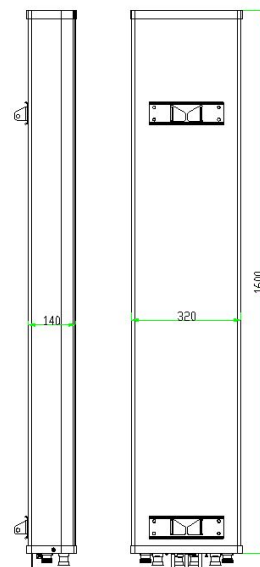
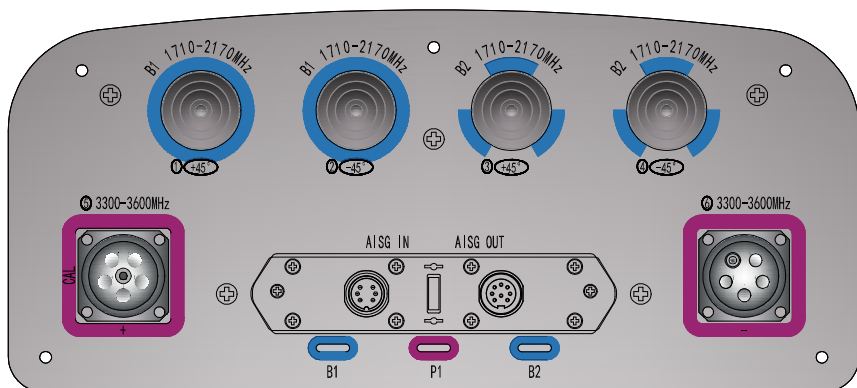
1710-2170MHz

3300-3600MHz
Broadcasting Beam3300-3600MHz
Operating Beam 03300-3600MHz
Operating Beam 60

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AppearanceView and Size



Installation Sketch

