2-Ports Base Station Antenna

- 380-500 MHz
- 65° 15dBi 2.05m
- E-Tilt: 0-14°, Integrated RCU

KBT -Since 1985-
Seamlessly Connected Future

KB65D038050B2-15-I

Electrical Specifications		
Frequency Band (MHz)	380~500	
	380~450	450~500
Polarization (°)	±45	
Electrical Downtilt (°)	0-14	
Gain (dBi)	14	14.5
Horizontal Power Beam Width (°)	68±3	65±4
Vertical Power Beam Width (°)	19.5±1.5	18±1.5
Front-to-Back Ratio (dB)	≥25	
Cross-polar discrimination (dB)	≥15(±60≥8)	
First upper side lobe suppression (dB)	≥15	
VSWR	≤1.5	
Isolation (dB)	≥26	
Intermodulation IM3 dBc	≤-150 (2*43dBm carrier)	
Maximum Input Power (W)	500@50℃	
Impedance (Ω)	50	
Ground Protection	DC Grounding	

Mechanical Specifications	
Connector	2*4.3-10 Female
Connector Position	Bottom
Height/Width/Depth (mm)	2050*450*145
Packing Size (mm)	2310*510*265
Antenna Weight (kg)	22
Bracket Weight (kg)	4.5
Radome Material	Fiberglass
Radome Color	Gray
Mechanical Tilt (°)	0~12
Operating Temperature (°C)	-40~+60
Max. Wind Velocity (m/s)	60
Diameter of Installation Pole (mm)	Φ50~Φ115
Mounting Kit	JM-900DZB-A
RET Type	Integrated RET, replaceable(AISG2.0/3GPP)
RCU Model	KRCU20D

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Specifications may be changed without notice

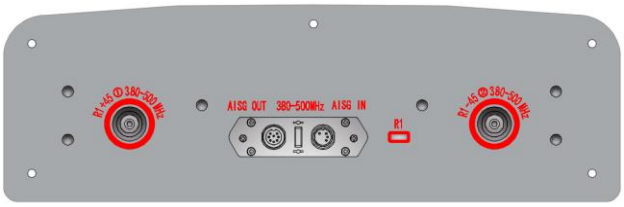
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Connector and Pattern

Connector Position:



R1: 380-500 MHz;

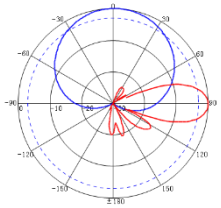
Configuration Types:

R1

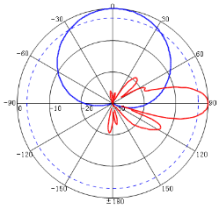
RET S/N:

KBxxxxxxxxxR1xxxx01

Typical Pattern

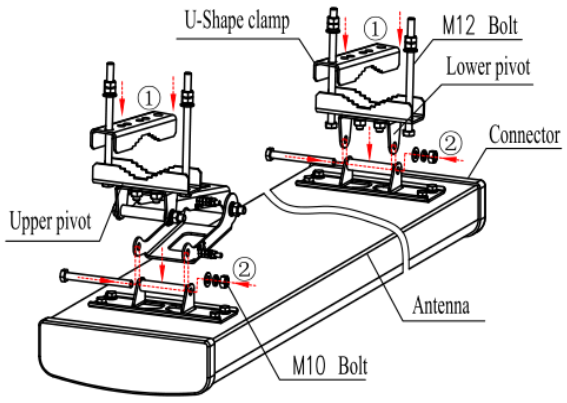


380-450MHz: ±45°

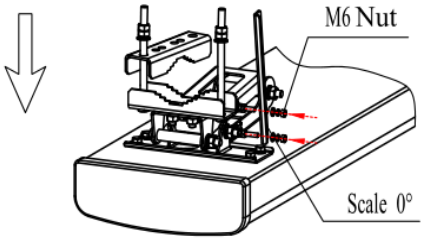


450-500MHz: ±45°

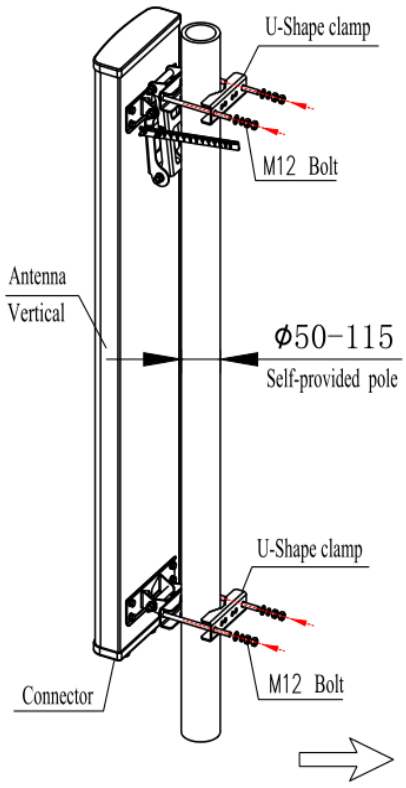
Installation Sketch (The antenna picture below is for reference only)



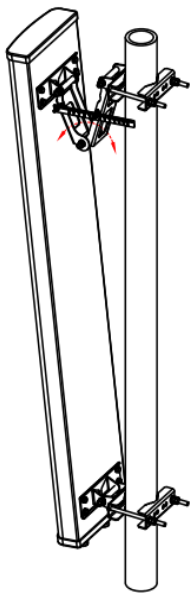
Step1: ① Install the M12 bolt and u-shape clamp on the upper and lower brackets of the antenna and pre-tighten the M12 nuts. ② Fastening the brackets to the back of antenna with M10 bolt , torquing the nut to 25N·m.



Step2 : Tightening the scale to the upper bracket with the M6 nut, fix the scale to 0 degree position, torquing the nut to 8N·m. (Above steps must be completed under the tower before installing the antenna).



Step3: Installing the antenna vertically to the support pole using M12 bolt, torquing the nut to 40N·m.



Step4: Loosing the scale fixing nut on the upper bracket, adjusting the mechanical downtilt angle of antenna to the suitable angle based on the scale display, then tightening the scale and all the nuts on the bracket.

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