

**KBT****XXXXPol 1695-2690MHz*4 33° 19dBi 2-12°****Integrated RET (RemoteControl Unit) Physical Dual-beam Antenna****KB30D1727A8-19F-IJ****Electrical specifications**

Frequency range (MHz)		1695-2690				
		1695-1880	1850-1990	1920-2200	2200-2490	2490-2690
Polarization		±45°				
Gain (dBi)	Y1,Y4	17.2	17.5	18.5	18.5	19.0
	Y2,Y3	17.0	17.2	17.5	17.5	18.5
Electrical Downtilt (°)		2-12				
Horizontal plane -3dB beam width(°)		38	36	35	34	33
Horizontal plane -10dB beam width (°)		66	65	64	62	60
Sidelobe suppression in H-plane		15	15	15	15	15
Horizontal Beam Direction		+30 (Y1,Y2) ,-30 (Y3,Y4)				
Vertical plane -3dB beam width (°)		12	11.5	11	10	9
First upper side lobe suppression (dB)		≥16				
Front-to-back ratio (dB)		≥25 (180° ± 30°)				
Cross-polar discrimination (dB)		≥15 @0° (±30° ≥10)				
Isolation Port to Port (dB)		≥25				
Impedance (Ω)		50				
VSWR		≤1.5				
Intermodulation IM3 (dBc)		≤-150 (2*43dBm carrier)				
Max. power per input(W)		250(@50℃)				
Lighting protection		DC Grounding				

Mechanical specifications

Connector	8*4.3-10 Female
Connector position	Bottom
Height/width/depth (mm)	1600(±8)*396(±4)*190(±4)
Packing size (mm)	1830*490*320(±10)
Antenna Weight (Kg)	20.5±1
Bracket weight(Kg)	4.8
Radome material	Fiber/Gray
Mechanical tilt(°)	0-12
Operating temperature (°C)	-40 to +60
Rated wind velocity (km/h)	250
Front/Rear/Side wind. Load (N)	608/291/691 @150 km/h
Suitable pole diameter (mm)	Φ50-Φ115
Mounting kit/Surface treatment	JM-900DZB-A

Integrated RET Properties

Ret Model	KRCU20D
Input Voltage	10-30VDC
Protocol to CCU/TMA	3GPP / AISG 2.0
Power consumption	≤2W (Idle), ≤13W (in Motion)
RET type	Integrated RET, replaceable
Connectors to CCU	4-pin DIN Female&4-pin DIN Male , conform to AISG 2.0



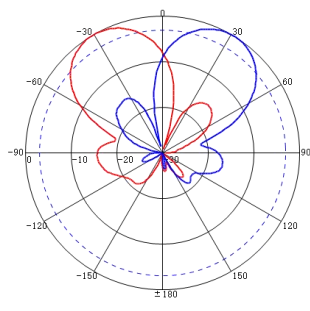
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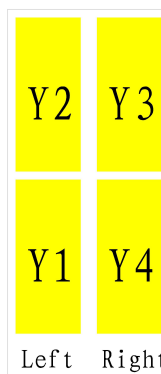
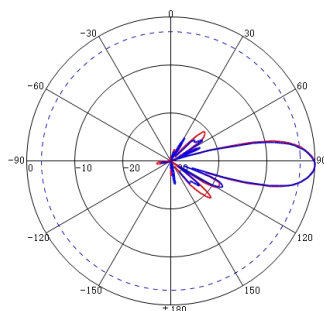
Integrated RET (RemoteControl Unit) Physical Dual-beam Antenna

Typical Pattern

Horizontal plane



Vertical plane



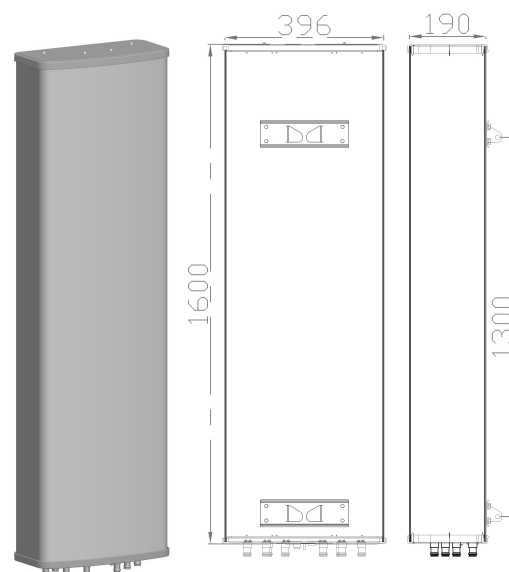
Left Right

Appearance View

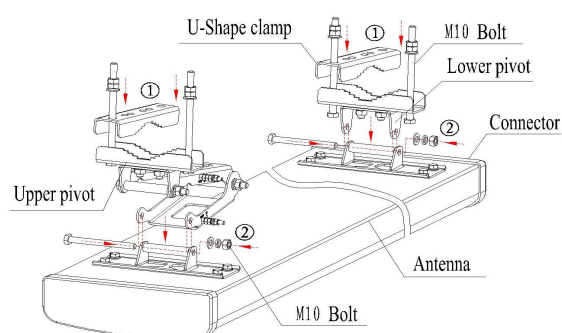
Connector Position



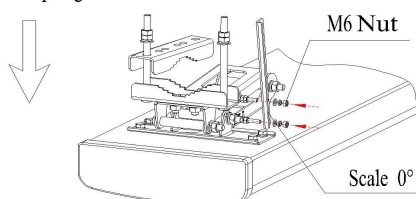
Outline Drawing



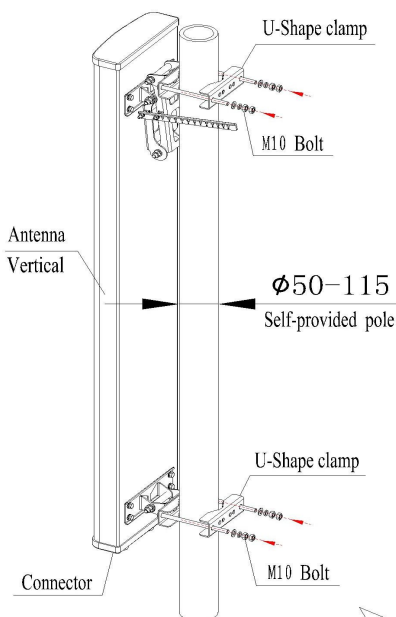
Installation Sketch



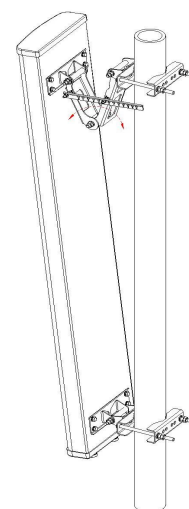
Step1: ① Install the M10 bolt and u-shape clamp on the upper and lower brackets of the antenna and pre-tighten the M10 nuts.
② Fastening the brackets to the back of antenna with M10 bolt, torquing the nut to 25N·m.



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 M10 bolt, torquing the nut to 25N·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.