

**KBT**

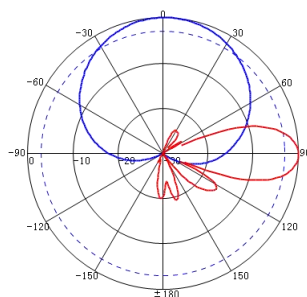
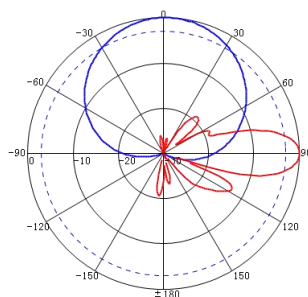
XPoI 380-500MHz, 65°, 15dBi, 0-14° Integrated RET (remote control unit) Antenna

KBT65DP15-03850AE-I**Electrical specifications**

Frequency range (MHz)	380-500	
	380-450	450-500
Polarization	$\pm 45^\circ$	
Gain (dBi)	14	14.5
Electrical Downtilt (°)	0-14	
Horizontal power beam width (°)	68 $\pm$ 3	65 $\pm$ 4
Vertical power beam width (°)	19.5 $\pm$ 1.5	18 $\pm$ 1.5
Front-to-back ratio (dB)	≥ 25	
First upper side lobe suppression(dB)	≥ 15	
Cross-polar discrimination (dB)	≥ 15 ($\pm 60^\circ \geq 8$)	
Isolation (dB)	≥ 26	
Impedance (Ω)	50	
VSWR	≤ 1.5	
Intermodulation IM3 (2 $\times$ 43dBm carrier)	≤ -150 dBc	
Maximum power (W)	≥ 500	
Ground protection	DC Grounding	

Mechanical specifications

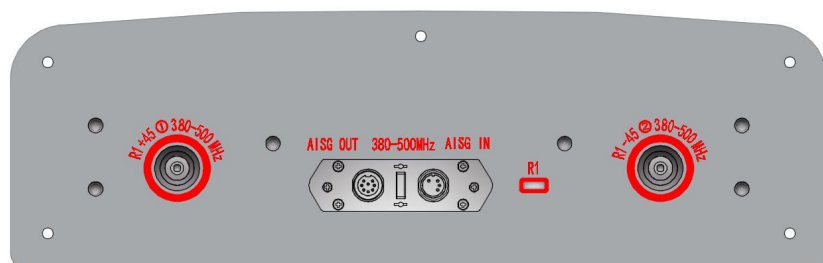
Connector	2*4.3-10 Female
Connector position	Bottom
Height/width/depth (mm)	2050*450*145
Packing size (mm)	2310*510*265
Weight (kg)	22
Bracket Weight(Kg)	4.5
Radome material and color	Fiberglass/Gray
Mechanical tilt(°)	0-12
Operating temperature (°C)	-40 to +60
Rated wind velocity (m/s)	60
Suitable pole diameter (mm)	$\Phi 50$ - $\Phi 115$
Mounting kit	JM-900DZB-A
Electrical downtilt adjustment	Integrated RET(AISG2.0/3GPP)
RCU model	KRCU20D

380-450MHz: $\pm 45^\circ$ Pol.**450-500MHz: $\pm 45^\circ$ Pol.**

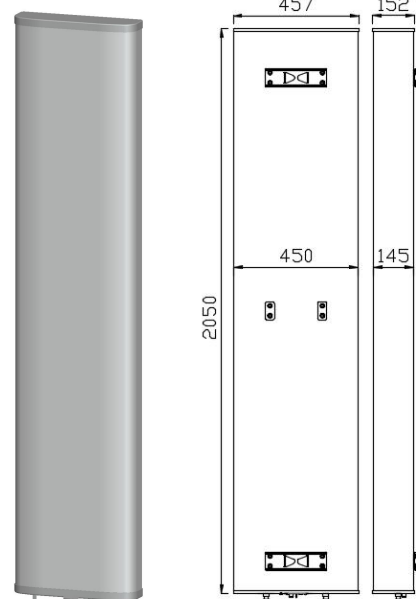
**KBT**

XPoI 380-500MHz, 65°, 15dBi, 0-14°
Integrated RET (remote control unit) Antenna

Connector Position



Outline Drawing



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: Loosening 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.
---	--	--