

WBN-033R21J02-1 Data Sheet v1.2
XX Pol,1710-2690/1710-2690MHz
33/33 Horizontal Beamwidth,21.0/21.0dBi
E-tilt:2-12/2-12
1.4M 4-Port 2H Antenna with Integrated RCU
Electrical Properties(BASTA 11.1)

Frequency Band(MHz)	1710-2690(Y1,Y2)			
	1710-1920	1920-2200	2200-2490	2490-2690
Polarization	$\pm 45^\circ$			
Gain(dBi)	19.2 $\pm$ 0.6	19.6 $\pm$ 0.6	19.8 $\pm$ 0.8	20.0 $\pm$ 0.8
Horizontal 3dB Beam Width($^\circ$)	39 $\pm$ 3	37 $\pm$ 3	34 $\pm$ 3	32 $\pm$ 3
Vertical 3dB Beam Width($^\circ$)	7.6 $\pm$ 0.6	6.7 $\pm$ 0.7	5.8 $\pm$ 0.5	5.4 $\pm$ 0.5
Front to Back Ratio at 180 $\pm$ 30 $^\circ$ (dB)	>25	>25	>25	>25
Cross Polar Ratio at boresight(dB)	>18	>18	>18	>18
1st Upper Sidelobe Suppression(dB)	>16	>16	>16	>16
Electrical Downtilt($^\circ$)	2-12			
VSWR	< 1.5			
Cross-polar Isolation(dB)	>28			
Interband Isolation(dB)	>28			
3rd Order PIM(dBc) @2 x 43dBm	< -153			
Impedance(Ω)	50			
Power Handling(W)	250			

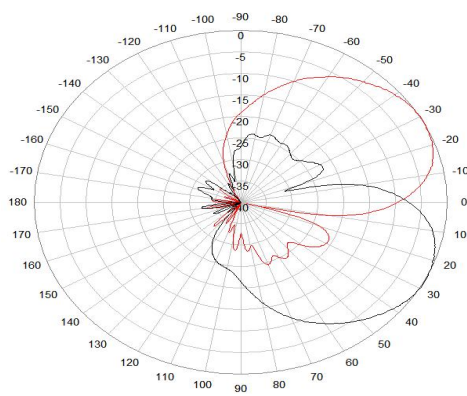
Mechanical Specifications

Antenna Dimensions (HxWxD) (mm)	1400 x 400 x 150
Packing Dimensions (HxWxD) (mm)	1615 x 490 x 255
Lightning Protection	DC Ground
Antenna Weight (kg)	17.5
Packed Weight (kg)	25.5
Connector	4 x 4.3-10 Female
Radome Material	Fiberglass
Wind Load at 150 km/h(N) (Front /Rear/Side)	675/169/754
Maximum Wind Speed(km/h)	241
Diameter of Installation Pole(mm)	$\Phi 50$ - $\Phi 110$
Operating Temperature Range($^\circ$ C)	-40-+65
RET Type	Integrated RCU
RET Protocols	AISG 2.0/3GPP

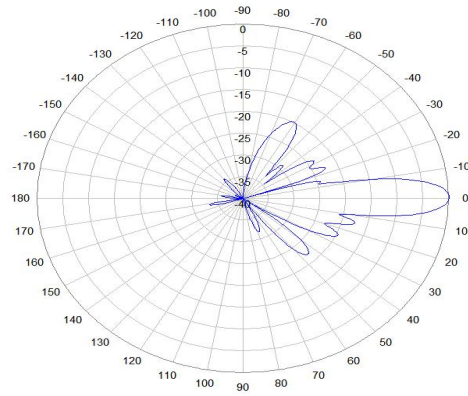


Pattern sample for reference

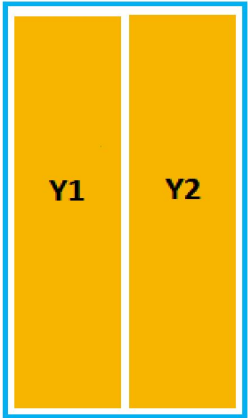
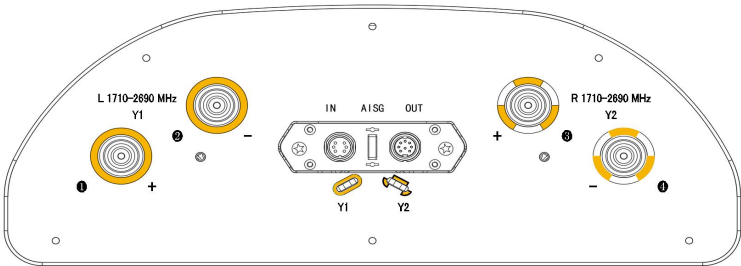
1710-2690MHz Azimuth



1710-2690MHz Elevation



Layout of interface



Array ID	RF Connector	RET(S RET)	Frequency(MHz)	AISG RET UID
Y1	1-2	1	1710-2690	MKxxxxxxxxxxxxxxxxY1
Y2	3-4	2	1710-2690	MKxxxxxxxxxxxxxxxxY2

* For more information, please refer to the specification of RET.

Accessories

Item	Model	Weight	Mechanical Tilt Range	Quantity
Mounting Kit	MJM-005-1101A	4.8kg	0-10°	1