

Type HEX5-1B2J-RC65

Frequency Range	698-960x1 1710-2690x2
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x3

Base Station Antenna

 6-ports 698-960 / 1710-2690 / 1710-2690 MHz 65°, 15 / 18/18 dBi, 2°-12° / 2°- 12°/ 2°- 12°Tilt Antenna
 With 3 Integrated RCUs.


Electrical Specifications

Frequency Range(MHz)		698-960			2x1710-2180			
		698-806	790-894	880-960	1710-1920	1920-2170	2300-2490	2490-2690
Polarization		±45°						
Horizontal 3dB Beamwidth(°)		69±3.6	67±3.6	65±3.6	68±6	65±6	62±5	62±5.5
Vertical 3dB		15.6±0.8	13.2±0.9	12.3±0.9	6.5±0.6	6.0±0.5	5.4±0.4	4.8±0.6
Gain (dBi)		14±0.5	14.3±0.4	14.8±0.5	17.2±0.5	17.3±0.6	17.6±0.5	18.0±0.4
Electrical Downtilt		0°-15°			2°-12°			
Upper Sidelobe Suppression(dB)	First	≥15	≥15	≥15	≥17	≥17	≥18	≥18
Front-to-Back Ratio Total Power, ±30° (dB)		≥26	≥26	≥27	≥27	≥27	≥28	≥28
Cross polar ratio	Main direction(dB)	≥16	≥16	≥16	≥17	≥17	≥17	≥17
	±60° (dB)	≥8	≥8	≥8	≥6	≥7	≥7	≥5
Isolation ports		≥28 dB						
Isolation Frequency		≥30 dB						
VSWR		< 1.5						
Intermodulation IM3		< -153 dBc(2x43dBm carrier)						
Impedance		50 Ω						
Max. Power per Input (at 50°C ambient)		500 W			250 W			
Lightning Protection		DC Ground						



Mechanical Specifications

Radome Material	UPVC
Connector Type and Location	4.3-10x6, Bottom iRCU in: 1 x 8 pin male iRCU out: 1 x 8 pin female
Dimensions, HxWxD(mm)	1499 x 379 x 159
Packing Size(mm)	1679 x 475 x 279
Weight ,w/o Mounting kit(kg)	27
Weight w/ Downtilt Bracket(kg)	23
Packing Weight (w/ Downtilt Bracket) (kg)	29
Max. Wind Velocity(mph)	150
Mounting hardware	φ 50 mm ~ φ 115 mm
Operational Temperature(°C)	-40 to +70
Operational Humidity(%)	<95
Wind Load at 100km/h (Frontal/lateral/Rearside(N))	520/270/585

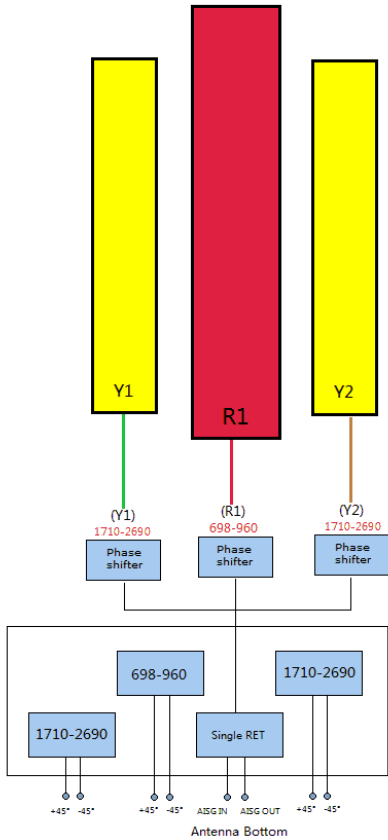
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Integrated RET Properties

RET Type	3 x Type 1 Single RET	
Protocols	Compliant to AISG 3.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by); <10W(motor activated)	
Connectors	AISG	2 x 8 pin connector acc. To IEC 60130-9 Acc.to AISG Daisy chain in: male Daisy chain out: female
	Antenna	Two motor shaft(Embedded motor)
Hardware interface	AISG	RS485A/B(pin5/pin3); Power supply(pin6); DC return(pin7) Acc.to AISG
Adjustment time(full range)	40 sec(typically, depending on antenna)	
Adjustment Cycles	≥10000	
Torque Max	≥160mN.m	
Lightning Protection Rating	IEC 61000-4-5 Current Pulse Profile, 8/20 μs 10 Repetitions Min. @ 6kA IEC 61312-1 Annex B Current Pulse Profile, 10/350 μs, 200 Repetitions Min. @ 0.6kA	

COMPREHESIVE TILT CONFIGURATION



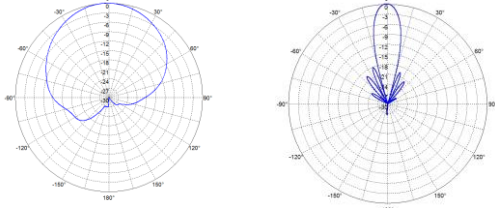
Frequency Range	Array	RET Unique ID
698-960MHz	R1	NDPMXXXXXXXX-7090R1
1710-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1710-2690MHz	Y2	NDPMXXXXXXXX-1727Y2

Note: (1) Physical RET Unit containing (3) Single RET

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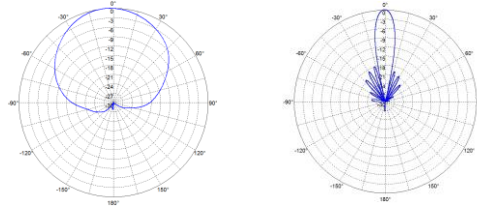
Radiation Pattern (698 - 824 MHz)



Horizontal Pattern

Vertical Pattern

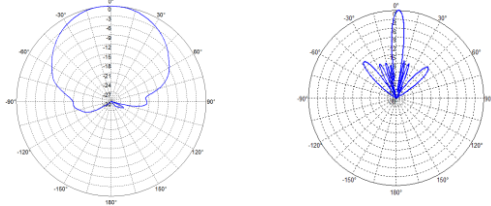
Radiation Patterns (824 - 960 MHz)



Horizontal Pattern

Vertical Pattern

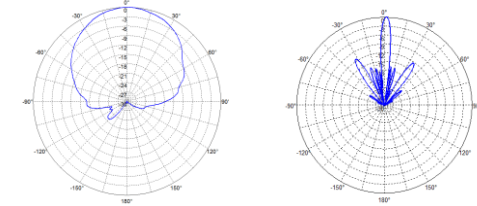
Radiation Pattern (1710 - 2200 MHz)



Horizontal Pattern

Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



Horizontal Pattern

Vertical Patter