

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

Type **HEX7-1B2J-RC65-H**

Base Station Antenna

6-ports 698-960 / 1710-2690/ 1710-2690 MHz 65°, 16/18/18 dBi, 2°-12° / 2°- 12°/ 2°- 12°Tilt Antenna With 3 Integrated RCUs.

Electrical Specifications



Frequency Range(MHz)	698-960			2x1710-2690			
	698-806	790-894	880-960	1710-1920	1920-2200	2300-2500	2500-2690
Polarization	±45°						
Horizontal 3dB Beamwidth(°)	67±6	66±4	64±5	61±5	68±6	68±4	64±4
Vertical 3dB	10.5±1.0	9.5±0.8	8.8±0.7	5.6±0.6	5±0.5	4.4±0.4	4.2±0.3
Gain (dBi)	15±0.5	15.5±0.5	16.0±0.4	18.2±0.5	18.5±0.5	19.0±0.5	19.2±0.5
Electrical Downtilt	2°-12°			2°-12°			
Upper Sidelobe Suppression(dB)	First	≥18	≥18	≥18	≥18	≥18	≥18
Front-to-Back Ratio Total Power,±30° (dB)		≥25	≥25	≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17	≥17	≥17
	±60° (dB)	≥10	≥10	≥10	≥8	≥8	≥8
Isolation ports	≥28 dB						
Isolation Frequency	≥28 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	Fiberglass
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)	2200 x 399 x 199
Packing Size(mm)	2175 x 510 x 345
Weight ,w/o Mounting kit(kg)	28
Weight w/ Downtilt Bracket(kg)	35
Packing Weight (w/ Downtilt Bracket) (kg)	41
Max. Wind Velocity(mph)	150
Mounting hardware	φ 50 mm ~ φ 115 mm
Operational Temperature(°C)	-40 to +70
Operational Humidity(%)	<95
Mechanical tilt(Optional)	0°-10°
Wind Load at 150km/h (Frontal/lateral/Rearside(N))	1171/498/1327

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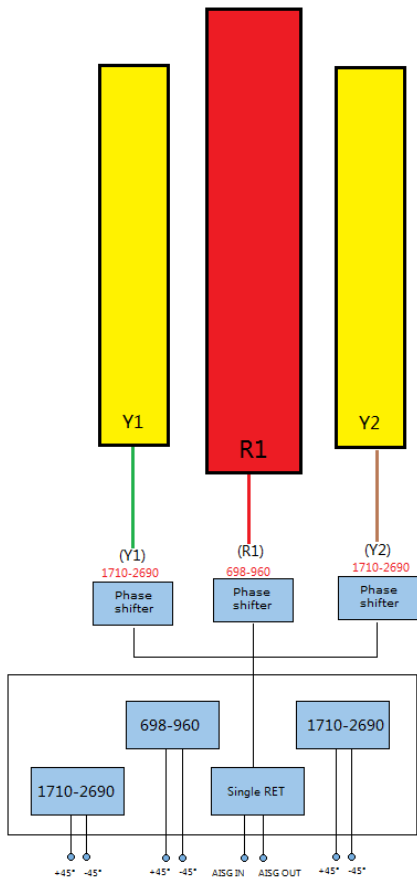
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Integrated RET Properties

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



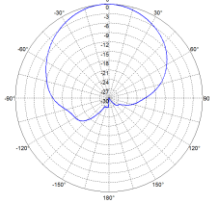
Frequency Range	Array	RET Unique ID
698-960MHz	R1	NDPMXXXXXXXX-7090R1
1710-2690MHz	Y1	NDPMXXXXXXXX-1727Y1
1710-2690MHz	Y2	NDPMXXXXXXXX-1727Y2

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

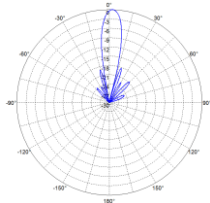
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Radiation Pattern (698 - 824 MHz)

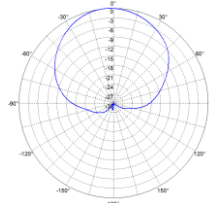


Horizontal Pattern

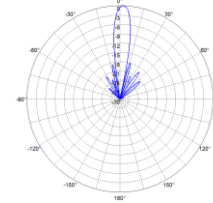


Vertical Pattern

Radiation Patterns (824 - 960 MHz)

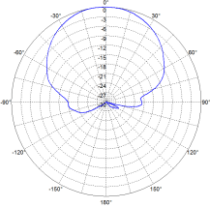


Horizontal Pattern

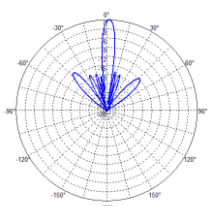


Vertical Pattern

Radiation Pattern (1710 - 2200 MHz)

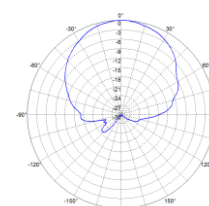


Horizontal Pattern

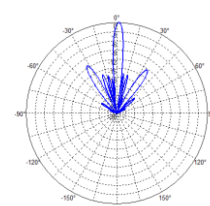


Vertical Pattern

Radiation Patterns (2490 - 2690 MHz)



Horizontal Pattern



Vertical Patter