

Frequency Range	698-806x1 824-960x1 698-960x1
Polarization	±45°
Half-Power Beam Width	65°
Electrical Downtilt	2° - 12°x3

Type HEX9-1BB1BA1B-RC65

Base Station Antenna

4-ports 698-806 / 824-960 / 698-960 MHz 65°, 16 /17 / 17 dBi, 2°-12° 2°-12° / 2°-12°Tilt Antenna With 3 Integrated RCUs.



Electrical Specifications

Frequency Range(MHz)		698-806	824-960	698-960	
		698-806	824-960	698-824	824-960
Polarization		±45°			
Horizontal 3dB Beamwidth(°)		68	60	58	60
Vertical 3dB Beamwidth(°)		8.0	6.8	8.0	6.8
Gain (dBi)		16.0	16.7	16.3	17.0
Electrical Downtilt		2°-12°			
Upper Sidelobe Suppression(dB)	First	>16	>16	>16	>16
Front-to-Back Ratio (dB) Total Power,±30°		≥25	≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17	≥17
	±60°(dB)	>8	>8	>8	>8
Isolation ports (dB)		>27			
VSWR		< 1.5			
Intermodulation IM3		< -153 dBc(2x43dBm carrier)			
Impedance		50 Ω			
Max. Power per Input (at 50°C ambient temperature)		250 W			
Lightning Protection		DC Ground			



Mechanical Specifications

Redome 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)	2685 x 499 x180
Packing Size(mm)/(inches)	2910 x 600 x 300
Weight ,w/o Mounting kit(kg)	48
Weight,with Mounting kit(kg)	55
Packing Weight(kg)	62
Max. Wind Velocity(mph)	150
Mounting hardware	ϕ 50 mm ~ ϕ 115 mm
Operational Temperature(°C)	-40 to +65
Operational Humidity(%)	<95
Wind Load at 100mph (Frontal/lateral/Rearside(N))	1952/355/2061

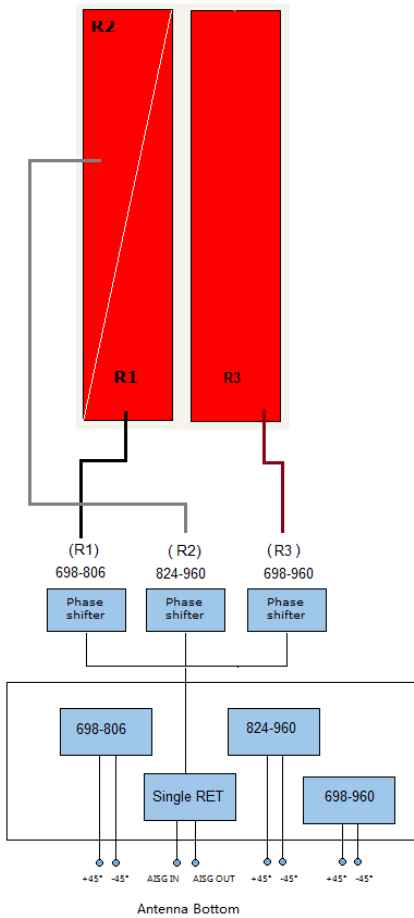
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Integrated RET Properties

Protocols	Compliant to AISG 2.0/3GPP	
Input voltage range	+10~+30VDC(pin 6)	
Power consumption	<2W(stand by);<13W(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	

COMPREHENSIVE TILT CONFIGURATION

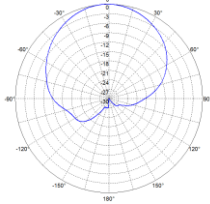


Frequency Range	Array	RET Unique ID
690-806MHz	R1	NDPMXXXXXXXX-7080R1
824-894MHz	R2	NDPMXXXXXXXX-8090R2
698-960MHz	R3	NDPMXXXXXXXX-7090R3

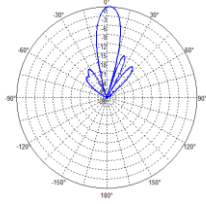
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Radiation Pattern (698-806 MHz)

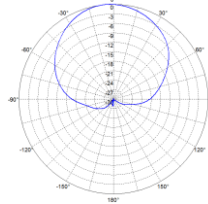


Horizontal Pattern

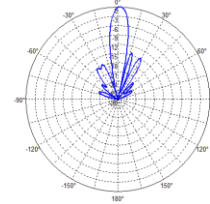


Vertical Pattern

Radiation Patterns (824 - 894 MHz)

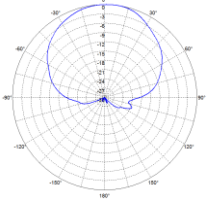


Horizontal Pattern

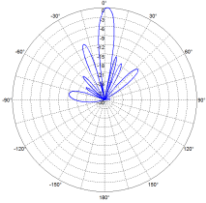


Vertical Pattern

Radiation Patterns (880 - 960 MHz)



Horizontal Pattern



Vertical Pattern