

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

Type QUA8-2B-RB65



Base Station Antenna

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

Electrical Specifications

Frequency Range(MHz)		2x698-960		
		698-806	790-864	880-960
Polarization		±45°		
Horizontal 3dB Beamwidth(°)		66±6.0	63±6.0	59±6.0
Vertical 3dB Beamwidth(°)		8.8±0.9	7.6±0.8	7.1±0.7
Gain (dBi)		15.6±0.6	16.2±0.6	16.5±0.6
Electrical Downtilt		2°-12°		
Upper Sidelobe Suppression(dB)	First	>16	>16	>16
Front-to-Back Ratio (dB) Total Power,±30°		≥25	≥25	≥25
Cross polar ratio	Main direction(dB)	≥17	≥17	≥17
	±60°(dB)	>8	>8	>8
Isolation ports (dB)		>27		
VSWR		< 1.5		
Intermodulation IM3		< -150 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	4.3-10x4 ,Bottom iRCU in:1 x 8 pin male iRCU out:1 x 8 pin female
Dimensions,HxWxD(mm)	2499x469x169
Packing Size(mm)/(inches)	2699x544x279
Weight ,w/o Mounting kit(kg)	32
Weight,with Mounting kit(kg)	41
Packing Weight(kg)	48
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))	865/380/965

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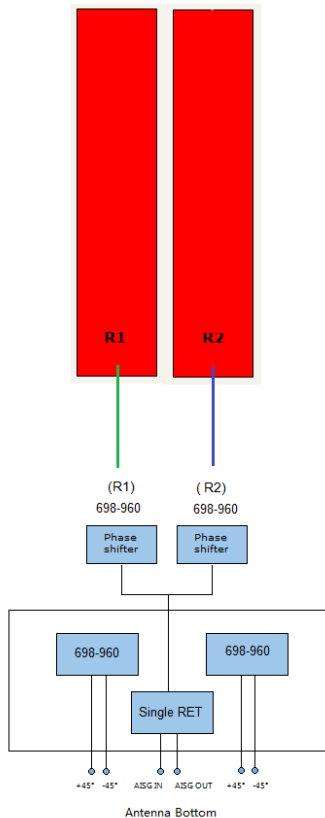
Integrated RET Properties

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
698-960MHz	R1	NDPMXXXXXXXX-7090R1
698-960MHz	R2	NDPMXXXXXXXX-7090R2

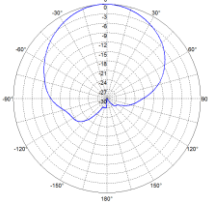
Note: (1) Physical RET Unit containing (2) Single RET



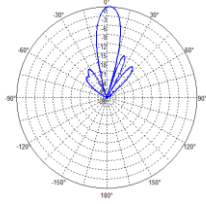
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Radiation Pattern (698-806 MHz)

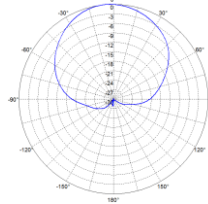


Horizontal Pattern

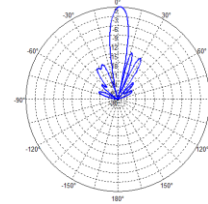


Vertical Pattern

Radiation Patterns (790 - 894 MHz)

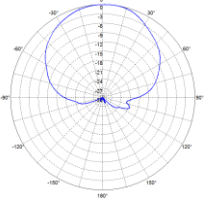


Horizontal Pattern

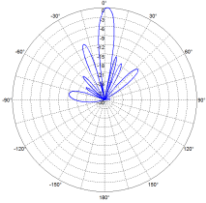


Vertical Pattern

Radiation Patterns (880 - 960 MHz)



Horizontal Pattern



Vertical Pattern